

"Crisis does not  
build character, it reveals it."

*Denis Leary*



THE APOLLO EXCELLENCE REPORT 2020

# PROJECT KAVACH **AN INTEGRATED COMPREHENSIVE PLAN** TO COMBAT **COVID19**

INFORMATION

EDUCATION

SCALING

UPDATING  
PROTOCOLS

TELEMEDICINE

DATA COLLECTION  
FOR ACTION AND  
FUTURE RESEARCH



01

## INFORMATION & AWARENESS

- Credible and expert information
- Compliant to Government guidelines
- Multi-channel
- Multi-stakeholder
- Multi-lingual

## ROUND THE CLOCK HELPLINE

- 1860-500-1066
- Engaging with stakeholders

## Apollo 24/7

- Online Doctor consultation
- Online booking of medicines
- Online booking for diagnostics
- Doorstep delivery of medicine
- Doorstep sample collection
- Online reports

## COVID-19 SCAN

- COVID risk assessment tool available to download from Google play store, Apple store

## 3800 PHARMACIES

- Across 18 States
- Home delivery

02

## TESTING

- Certified centers for swab testing
- Report available online
- Home testing in select cities

## FEVER CLINIC

- Specialized clinics
- Infectious disease experts
- Screening of patient with Flu like symptoms
- Multi-location

## STAY I

- Social impact initiative for isolation care
- Medically sanitized individual rooms across the country
- All clinical protocols driven by Apollo Ecosystem
- 24/7 Clinical monitoring
- Round the clock e-Consult
- Round the delivery of Medicine, Sample collection
- Door step delivery of Food & Beverage in contactless tamperproof packing

03

## TREATMENT

- Specialized & dedicated teams in treating Infectious disease
- International Infection control, protocols
- Negative pressure ICU beds
- Isolated quarantine treatment facilities which are away from the main unit
- High quality PPE for hospital personal
- Appropriate stocking of required consumables and disposables
- E-ICU service to monitor patients in remote acute care centers using Telemedicine
- Advanced Treatment intensive care

## VACCINATION

- Vaccination for COVID-19 is available at 120 location of Apollo Hospitals across the country

## POST-COVID RECOVERY CLINICS

- Recover Clinics have been launched to address the issues faced by the patients who have recovered but are suffering from post-COVID-19 complications

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# The Year 2020



# The Year 2020

Since the beginning of the year 2020, all of humanity is facing its toughest crisis in battling the COVID-19 pandemic. However, for the Apollo Family, whatever be the odds, the resolve to care for the patients has only become stronger. Each and every member of Apollo Family during these troubled times is standing as a 'Kavach' for ensuring impeccable safety and compassionate care to everyone, like a true Warrior. In spite of the troubled times, the commitment to clinical excellence, quality and patient safety has become stronger.

To combat the pandemic as a collective force, 'Apollo Project Kavach' has been launched as a multipronged strategy encompassing aspects from information, screening, assessment and testing to preparing infrastructure for quarantine and treatment. Over 16 million individuals have downloaded the COVID-19 Risk Self-Assessment Tool. More than 135,000 patients have been treated, more than 5,00,000 tests have been performed. 'Apollo Fever Clinics' have been launched as segregated facilities to address concerns about fever and related symptoms in the wake of the pandemic. Post-COVID Recovery Clinics were also started across the hospital network. The Post-COVID Recovery Clinics address the rising number of patients who have recovered from COVID but are suffering from the mid and long term persistent effects of the infection. Apollo Hospitals has partnered with the Government of India for the vaccination drive against COVID.

The Apollo Standards of Clinical Care (TASCC) embodies standardization of processes and outcomes for clinical excellence and patient safety, across all the Group Hospitals. TASCC scores

showed a steady increase from 310 in FY (2012-13) to 454 in FY (2019-20) for Group A hospitals, from 227 in FY (2012-13) to 447 in FY (2019-20) for Group B hospitals and from 189 in FY (2012-13) to 355 in FY (2019-20) for Group C hospitals, reflecting increasing standardisation of processes and improving outcomes.

Group average scores for the Apollo Clinical Excellence Scorecard (ACE 1) showed an improvement from 72 in 2010 to 84 in 2020. Apollo Hospitals, Bangalore reporting Group A parameters, Apollo Hospitals, Seshadripuram reporting Group B parameters and Apollo Hospitals, Karur reporting Group C parameters were declared ACE 1 champions and were awarded trophies along with cash prizes.

In 2020, 142 nominations were received for Apollo Innovation and Quality Awards, a platform that felicitates and rewards hospitals within the Apollo Group for their diligent efforts and innovations to persistently improve patient care, quality and safety.

Apollo Clinical Awards provide a platform that honours and recognizes Consultants who have achieved path breaking clinical, academic and research related success. Ninety one nominations were received from Consultants across the Group.

Our consultants continued their pursuit of excellence by treating complicated cases and performing rare procedures, while also writing books and contributing book chapters. They have published their clinical research and cases in medical journals worldwide and delivered lectures nationally and internationally. They have received awards from various government and non-government organizations in 2020. Over 300

consultants have contributed these achievements for publication in this report.

The National Board of Examinations (NBE) has accredited Apollo Hospitals for training and conducting examinations in 15 broad specialities, 21 super specialties, besides 8 Postdoctoral Fellowship (FNB) programs. In 2020, there were 612 DNB/FNB seats in the Apollo Hospitals Group with 967 trainees pursuing DNB/FNB programs across 14 hospitals in 44 subjects.

In order to upskill the knowledge and expertise of doctors, under the aegis of the Apollo Continuous Medical Education Program, 547 CMEs were conducted which were attended by 18,707 doctors virtually from across the country and overseas.

Apollo Research and Innovations (ARI) has conducted over 1200 clinical studies and currently 150 studies are on-going at various Apollo Hospitals. The Adjunct Titles of Tutorship has been conferred on 113 Consultants.

Eight Apollo Hospitals are accredited by Joint Commission International (JCI). Apollo Proton Cancer Center became the first virtually accredited hospital by JCI. The total number of National Accreditation Board for Hospitals and Healthcare Providers (NABH) accredited Apollo Hospitals increased to 32.

Apollo Hospitals Bangalore launched the first dedicated Robot-Assisted Cardiac Surgery Unit in India, a milestone in the history of cardiovascular surgery in the country.

The Exelsius GPS Spine Surgery Robot, the most advanced 3rd generation spine robot, was launched in Chennai at the Apollo Institute of Spine surgery.

Apollo HomeCare handled over 5,00,000 patient care episodes. Stay I @HOME, a monitored home isolation service was offered by Apollo HomeCare

as a part of Project Kavach. Apollo Homecare, known for its clinical excellence, is acknowledged as a leader in providing skilled home healthcare services.

Apollo TeleHealth (ATHS) experienced an almost three-fold increase in teleconsultation case volumes. ATHS successfully delivered over one million teleconsultations through different projects and initiatives during the lockdown. With the Government of Uttar Pradesh, ATHS set up Tele-Radiology Services at 134 Community Health Centres.

Harvard T.H. Chan School of Public Health, USA, launched the Case Study on the 'Total Health Program'. Situated in the Thavananpalle Mandal of Chittoor District, Andhra Pradesh, 'Total Health' is India's first integrated rural healthcare service delivery network in the private sector. The program aims to cover more than 60,000 people across all age groups. It functions under the aegis of the Corporate Social Responsibility (CSR) arm of Apollo Hospitals.

Apollo Hospitals Group was conferred 40 awards and accolades at various national and international fora in 2020.

Dr Prathap C Reddy, Chairman, Apollo Hospitals Group, was awarded the Lifetime Achievement Award at the 22nd EY Entrepreneur of Year Awards Programme.

Ms. Preetha Reddy, Vice Chairperson, Apollo Hospitals Enterprise Limited and Ms. Suneeta Reddy, Managing Director, were honoured with the 'Business Women of the Year 2020 Award' by Deloitte.

Ms. Preetha Reddy, Vice Chairperson, Apollo Hospitals Enterprise Limited was conferred with the 'Healthcare Personality of the Year Award' by FICCI Healthcare Excellence Awards.

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

At the Asian Hospital Management Awards 2020, Apollo Hospitals Group won two awards. The Best Hospital Survey 2020, conducted by THE WEEK, ranked Apollo Hospitals, Chennai as the best corporate multi – speciality hospital in the country. The Times Health Survey ranked Apollo Hospitals, Chennai as the best multispecialty hospital in India. The All India Critical Care Hospital Ranking Survey 2020, conducted by the Times of India, ranked Apollo Hospitals, Chennai and Delhi as the best multispecialty hospitals in India for the specialties of Emergency, Gastroenterology, Neurology, Oncology, Paediatrics and Nephrology. Several Apollo Hospitals were ranked as best hospitals in their region and specialities, in both THE WEEK and All India Critical Care Hospital Ranking Surveys. The Newsweek has ranked Apollo Hospitals in Chennai, Delhi, Hyderabad and Bangalore as the best top 20 hospitals in India. The Reader's Digest Trusted Brand Survey 2020 has ranked Apollo Hospitals in Chennai, Delhi, Navi Mumbai, Hyderabad, Bangalore, Kolkata, Bhubaneswar, Lucknow and Apollo Spectra Hospitals Kailash Colony as India's Most Trusted Hospitals.

The journey into 2021 has begun on an equally challenging note as last year. However, manifesting our inner strength shall help overcome these trying times. As this anonymous quote says;

'Be strong because things will get better. It may be stormy now, but it never rains forever'

# Project Kavach

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# Project Kavach

Apollo Hospitals launched 'Project Kavach' with a mission dedicated to identify, fight and defeat the COVID-19 pandemic with clinical expertise and a comprehensive multi-stakeholder involvement.



Dr Prathap C Reddy, Chairman, Apollo Hospitals launched 'Project Kavach'

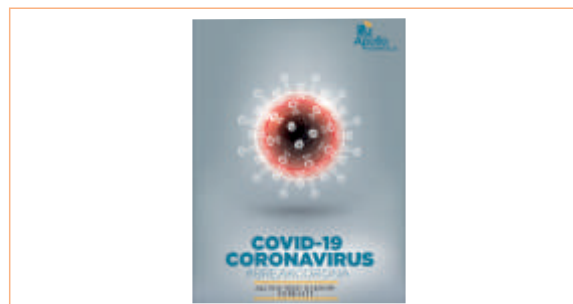
Apollo Kavach, signifying the armoured shield to protect us from the deadly disease, is a comprehensive and integrated response plan by the Apollo Group, which consists of 3 robust sections (defined as rings). These rings address all the aspects of fighting COVID-19 from information, assistance, healthcare service delivery, screening, assessment, testing and readying the infrastructure for isolation, quarantine and treatment (as per the government directives). Project Kavach is part of Apollo's pledge to partner with the Government and be at the frontline of this critical battle.



## External Stakeholder Communication Program

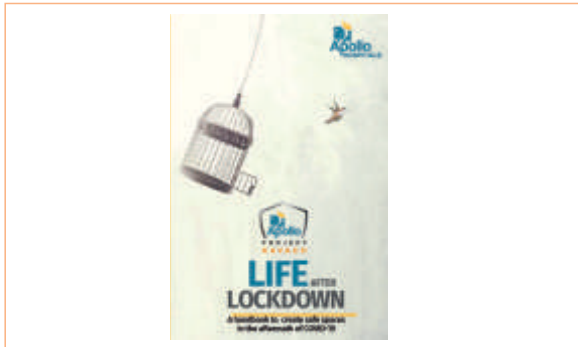
A multi lingual communication strategy was adopted while designing all communications, specifically tailored to suit the needs of various target segments-individuals, corporates, healthcare associates, caregivers and the community at large. Relevant and well researched information was created, adhering to the guidelines issued by NCDC MOHFW, Government of India and State Government.

Apollo Corona E-book: [https://bit.ly/ Corona EBook](https://bit.ly/CoronaEBook)



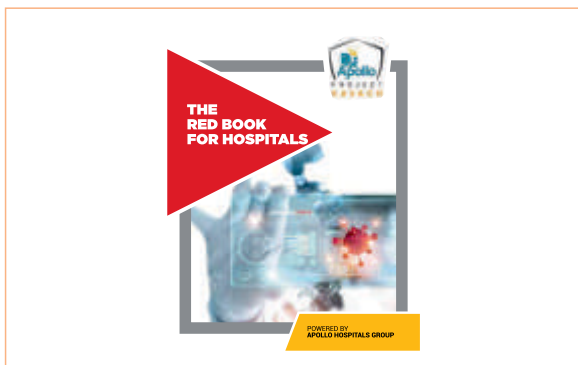
Corporate Corona Handbook: <https://bit.ly/CorpCorona>

A comprehensive document on workforce management and precautions for corporates was rolled out.



*Ms Sangita Reddy, Joint Managing Director, Apollo Hospitals, sharing her perspective on "Life After Lockdown".*

Apollo Red Book: [https://bit.ly/Redbook\\_NursingHome](https://bit.ly/Redbook_NursingHome)



Apollo Red Book : [https://bit.ly/Redbook-External\\_circulation](https://bit.ly/Redbook-External_circulation)



The Red book is a compilation of evidence based best practices from a clinical as well as administrative point of view to handle the COVID-19 crisis and way forward. These are adapted from guidelines released by the Government of India, CDC, WHO and mainly from Apollo Hospitals besides many others. It includes clinical guidelines, disinfection protocols, screening processes, staffing, prophylaxis, patient/family education guidelines, fever clinics and function wise operational protocols.

## Touching Lives Through Multi-Channel Communications

Apollo's digital communication bulletin has reached to over 121 million people across different regions.

In order to share credible medical advice, Apollo experts in infectious diseases and other specialities have reached out to over 15.6 million people through Apollo Hospital's social media platform.





Multi-channel communications to address Covid-19

## Training

To reduce the impact of COVID-19 through education, Apollo's virtual education vertical "Medvarsity" undertook multiple initiatives and launched a free course on COVID-19 Awareness and Management which saw 1.5 lakh learners from 120 countries completing this course.

As a mark of gratitude towards the front line healthcare warriors during this pandemic, Medvarsity offered a free online Certificate Course in Clinical Management of COVID-19. Over 7500 doctors have earned this certification. This 45-minutes certificate course covers epidemiology, structure, mode of transmission, clinical presentation, preventive measures, and case management of COVID-19.

Medvarsity in collaboration with FICCI introduced special online training programs for health care workers that can be accessed free of cost at <https://healthedu.co.in/>. Over 1500 learners attended the program every week.

Apollo Hospitals partnered with Indian Society for Critical Care Medicine and Boston Children's Hospital to train 1 lakh doctors on management of ventilators. The online training and 15 ventilator courses can be accessed on <https://dosily.com/ventilator-training>.

In partnership with NIIT Foundation, Apollo hospitals has trained over 5 lakh individuals on awareness on social distancing and management of self-quarantine.



Apollo Hospitals in partnership with NIIT Foundation for awareness training on social distancing



Medvarsity in collaboration with FICCI

## For the Employee

Apollo Hospitals' teams have the ability to handle COVID-19 patients at all stages. The teams have been trained on various aspects of the disease including self-protection, identification of symptoms and information flow in case of suspected cases.

In addition to generic advisory on COVID 19 Apollo leadership has engaged in continuous communications with the entire network of employees through virtual town halls on the work being done by the organization and also reiterating the importance of following safety measures in the hospitals and at their homes.

Employee Handbook: [https://bit.ly/ApolloEmployee\\_HandbookV](https://bit.ly/ApolloEmployee_HandbookV)



The Employee Handbook provides detailed guidelines to the members of Apollo family, for taking necessary precautions and the infection control measures during and post COVID-19 lock down period.



Training and awareness for infections control protocols for staff





## Encouraging Physical and Digital Screening

The objective of encouraging physical screening was driven through focused engagement across corporates, resident welfare associations and communities.

To make the drive useful, talk shows were conducted by Apollo doctors and infectious disease experts on various aspects of COVID-19. These include safety guidelines, demo of respiratory and hand washing etiquettes, breathing exercises, diet and nutrition for boosting immunity.

To reduce the burden of physical screening and testing, Apollo hospitals launched a tech driven, AI enabled COVID-19 Risk Assessment scanner. The scan is built around the principle of a symptom checker. The combination of regression and multiclass classification-based algorithm adaptation techniques has been used to build the model considering the published symptoms, clinical parameters and exposure history from authoritative sources like CDC, NEJM and JAMA COVID-19 resources.

Powered by AI, the scan is able to assess an individual's risk using just 8 simple questions

pertaining to age, gender, current body temperature, and presence of symptoms such as dry cough, sneezing, sore throat, weakness, breathlessness, drowsiness, pain in chest, details of travel history, contact with anyone having symptoms or a positive test result, co-morbid condition such as diabetes, high blood pressure, heart and respiratory diseases and progress of symptoms over the last few days.

Besides the risk status scan it helps provide as advisory on further intervention, isolation, precautions accordingly. Over 16 million people have availed screening across 30 countries. This scan has been shared by multiple phone operators to their user base to increase accessibility. Given the user-friendly and appropriateness of its results, various state governments and distribution partners requested to translate it into their respective state languages. The app is now translated and available in 5 languages. This has broadened the reach of the app.



Drive-through Center for Covid testing

## Creating Information Access

To provide information and medical advice as a care-continuum, Apollo introduced a round-the-clock nation-wide helpline number 1860 500 1066. Over 5000 inbound calls are attended every day to address medical and general queries.

In addition to a nation-wide number, a dedicated COVID-19 helpline number 08041192606 was also introduced to provide specific information with regard to various aspects of COVID-19. Manned by qualified doctors, the helpline has been providing information and assistance on latest developments, precautions, protocols and general queries. It also shares details of certified government COVID-19 nodal centers for information on testing and treatment.

The national emergency number 1066 has remained active with a centralized ambulance network to ease the patients' transport requirements across India.

## Creating Service Supply

Apollo Hospitals launched an interactive web platform Apollo 24 | 7 which is India's largest end-to-end omnichannel healthcare platform that is enabling users from any part of the country to use Apollo services from their mobile phones.

The platform currently offers a full bouquet of healthcare services - 24x7 consultation with Apollo doctors across specialties, timely home delivery of medicines, diagnostic test booking, digital health records and more. Apollo 24 | 7 has been created with the belief that expertise is for everyone, with an aim to equip individuals with validated data and best-in-class resources to take care of their health, well-being and safety. With increased aggregation of health data, Apollo Hospitals foresees a larger share of decision making to be based on artificial intelligence when it comes to maintaining our health.

## Ensuring Supply of Essential Drugs and Consumables

To strengthen the care continuum, Apollo has ensured supply of essential medicines and consumables by keeping open 3500 retail pharmacy outlets round-the-clock in 18 states across the country.

Stocks have been doubled to ensure ample supply and the prices are being strictly monitored. In addition to increased inventory and low pricing, home delivery capability has been augmented by adding resources for the delivery. Importance has been laid on ensuring safety of the delivery staff by providing them with mandatory personal protection equipment (PPE). They are specially trained on safety norms of contactless delivery. The teams have extensive coordination with state as well as central government, to mitigate logistic delays in procurement and distribution of the stock across all Apollo centers.



Apollo Pharmacy round the-clock service

## Testing for Covid-19

Widespread community testing for suspected cases is the first step to flatten the curve of the COVID-19 pandemic. Following the directive of state and central government, Apollo has set up testing facilities across 17 of its centers.

## Fever Clinics

The Apollo Fever Clinic is a specialized service offered; wherein patients with fever or fever-related issues are evaluated by expert physicians and infectious disease specialists. Thereafter diagnosis and treatment is provided. Fever Clinics have been segregated to ensure that all patients are first screened as per ICMR guidelines at the very outset and those whose symptoms are suggestive of COVID-19 are guided to continue their treatment as prescribed by the Government and ICMR guidelines.



**NOT ALL FEVERS ARE CAUSE FOR CONCERN.**

Clear your doubts with a visit to Apollo Fever Clinic.

- Consultations by equipment
- Efficient screening
- Fast-track consultation
- Accurate diagnosis and effective treatment

apollohospitals.com

1860 500 7788

Apollo Fever Clinic

## Isolation Care “STAY-i”

Social distancing and isolation care are critical to break the chain of spread of COVID19. In anticipation for an increased need of medically supervised isolated care, Apollo Hospitals has launched Project “Stay-i”.

Project “Stay-i” is an innovative initiative to strengthen the bulwark against COVID-19 by creating isolation rooms in hotels with medical supervision for quarantine. They create a barrier to ensure that people recover without spreading the virus and are supervised if they need to move to medical care at the right time. This also ensures that people who are not critically sick do not occupy hospital beds, freeing up the scarce resource for more critical and deserving patients.

To ensure affordable, safe rooms, Apollo Hospitals has joined forces with Deutsche Bank, Hindustan Unilever, State Bank of India, Sarovar Hotels, Lemon Tree, Ginger Hotels, Zomato and has launched a social impact initiative. The working protocols, functioning and monitoring framework have been developed, and the project was announced on 30th March, 2020.

The entire supply chain with working protocols, functions and monitoring framework for “Stay-i” is highly developed. A guest who wishes to book a room under “Stay-i” needs to visit the website [www.askapollo.com/](http://www.askapollo.com/) [www.apollohospitals.com](http://www.apollohospitals.com) and fill out the form on the homepage. Guests can also call 24 | 7 helpline number 18605000202 to avail this facility. In both the scenarios, after getting the details, the Apollo Hospitals team gets back to the guest with booking confirmation and check-in requirements within 3 hours.

Project “Stay-i”, continues to receive strong appreciation from offices across the Government, Public Sector Institutions, Private Sector Companies and society at large. The project significantly progressed in partnering with various State Governments.



The project has operationalised 23 hotel facilities across eleven cities in India and has serviced ~80,000 nights till date and has impacted over two million lives.



Isolation Care "STAY-i"

## Clinical Preparedness and Cross-sectional Training

With seventy three hospitals in the network, Apollo has the largest number of isolation and ICU facilities in the private sector. Beds have been earmarked across all hospitals and they can be stepped up to 1000 for the treatment of COVID-19 patients, with ventilator response and support.

As per government directives, Apollo Hospitals units have been earmarked to provide dedicated treatment for infected/suspected COVID patients. Extensive training of all personnel on the latest treatment protocols has been undertaken. Adequate personnel have been pressed into service with provision of quarantine quarters to house those staff separately.

Medicines, consumables, hospital supplies, negative pressure rooms, ventilator and additional medical equipment have been procured or reserved with vendors to meet any increase in demand. Also ensured is the stocking of PPE (Personal Protection Equipment) for all staff.

In the current crisis, Apollo Hospitals have ramped up capacity to remotely manage patients with respiratory failure through the e-ICU service. This support can be extended to help hospitals manage patients through the Apollo Telemedicine platform.

## Vaccination

Apollo Hospitals have strengthened its vaccine cold chain for supply and geared up all its facilities for safe, efficient and fast administration of vaccines, for up to 1 million doses per day. The Group is leveraging its robust pan India web of medicine supply hubs with cold chain facilities and use its hospitals, clinics, corporate health centers, pharmacies alongside the omni-channel digital platform Apollo 24/7, to ensure massive administration capacity of Covid-19 vaccines. It has trained 10,000 staff for this purpose.



Ms Shobana Kamineni, Executive Vice Chairperson, Apollo Hospitals, at the media briefing for the COVID-19 vaccination programme



Union Health Minister Dr Harsh Vardhan with Vice Chairperson Ms. Preetha Reddy; Managing Director Ms. Suneeta Reddy, Apollo Hospitals, at the COVID-19 vaccination dry run at Apollo Hospitals, Chennai

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# Clinical Excellence

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# Clinical Excellence

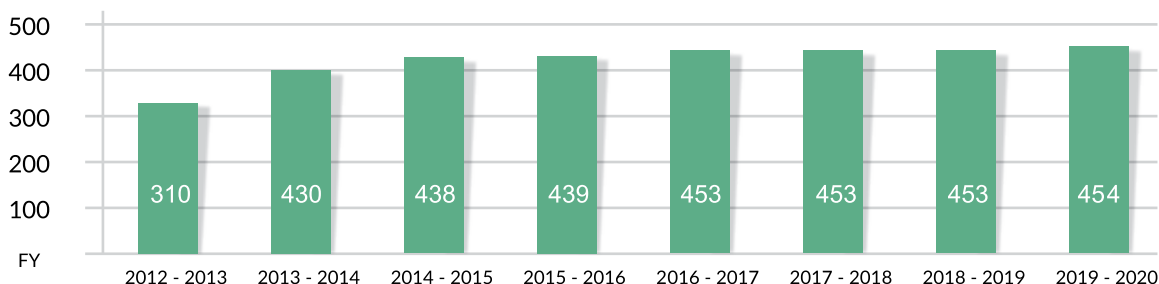
## The Apollo Standards of Clinical Care (TASCC)

Apollo Hospitals Group aims at establishing the highest standards of clinical care and patient safety for all its hospitals irrespective of their location and size. The Apollo Standards of Clinical Care (TASCC) was implemented across Apollo Hospitals to standardize processes and outcomes for clinical excellence and patient safety. It encompasses six initiatives – Apollo Clinical Excellence dashboards (ACE 1 and ACE 2), Apollo Quality Program (AQP), Apollo Mortality

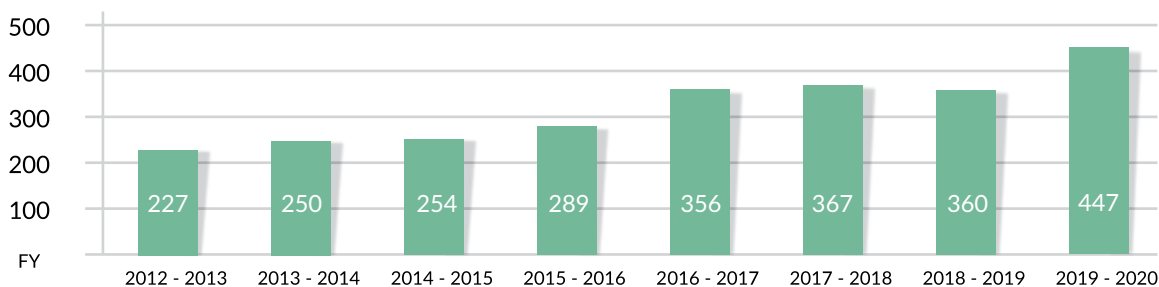
Review (AMR), Apollo Incident Reporting System (AIRS) and Apollo Critical Policies Plans and Procedures (ACPPP). TASCC was implemented in January 2012.

TASCC scores showed a steady increase from 310 in FY (2012-13) to 454 in FY (2019-20) for Group A hospitals, from 227 in FY (2012-13) to 447 in FY (2019-20) for Group B hospitals and from 189 in FY (2012-13) to 355 in FY (2019-20) for Group C hospitals, showing increasing standardisation of processes and improving outcomes.

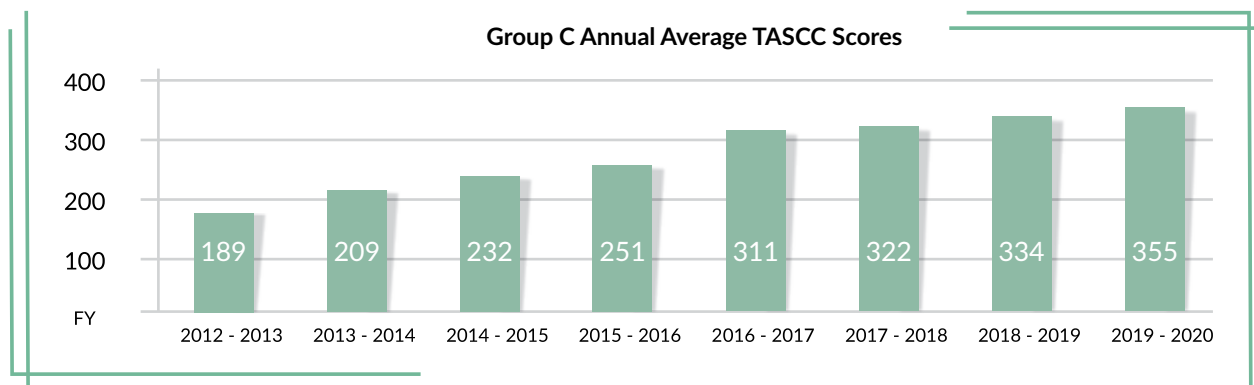
Group A Annual Average TASCC Scores



Group B Annual Average TASCC Scores



\*ACE 2 has been included in TASCC for Group B Hospitals from 2019-20 onwards



## Apollo Clinical Excellence Scorecard - ACE 1

Earlier known as ACE@25, this scorecard has been renamed as ACE 1 in 2015 with revision in indicators and benchmarks. Group average scores for ACE 1 showed an improvement from 72 in 2010 to 84 in 2020.

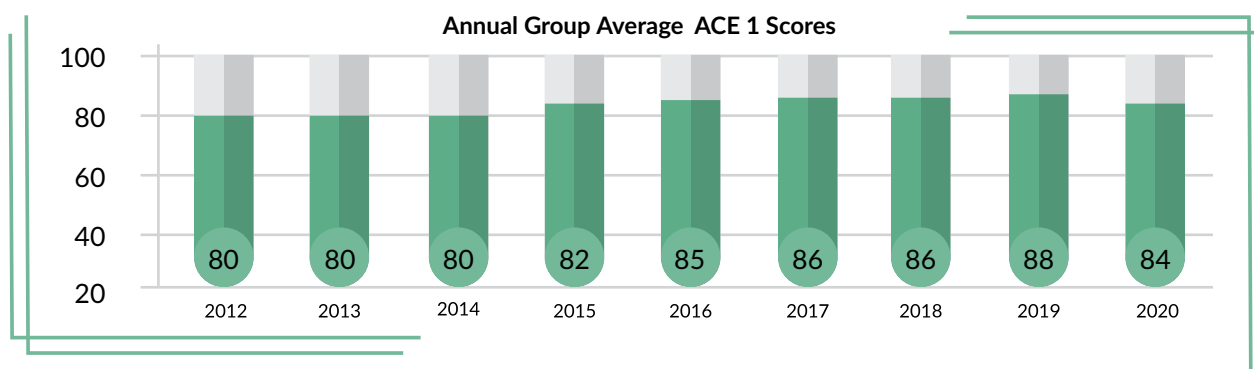
ACE 1 is a clinical balanced scorecard incorporating 25 clinical parameters involving complication rates, mortality rates, one-year survival rates and average length of stay after major procedures like liver and renal transplant, CABG, TKR, THR, TURP, PTCA and endoscopy, covering all major specialities.

Also included are hospital acquired infection rates and patient satisfaction with pain management. Parameters have been benchmarked against the published benchmarks of the world's best hospitals including Cleveland Clinic, Mayo Clinic, National Healthcare Safety Network, University of California, San Francisco

and Agency for Healthcare Research and Quality US. The weighted scores for outcomes are colour coded green, orange and red. The cumulative score achievable is capped at 100.

The collective data for all locations can be viewed by the Group Leadership at any point of time. There is an "ACE 1" Champion Award for the highest scorer.

In 2020, 38 hospitals reported ACE 1 data. Seven hospitals (Ahmedabad, Bangalore, Chennai, Delhi, Hyderabad, Kolkata and Navi Mumbai) reported data for Group A parameters, 18 hospitals (Bilaspur, Madurai, Mysore, Pune, Vizag, Bhubaneswar, Karimnagar, Secunderabad, Hyderguda, Trichy, Vanagaram, Indore, ASH OMR, Nashik, Nellore, Seshadripuram, Health City Vizag, Guwahati) reported data for Group B parameters and 13 hospitals (Aragonda, Apollo First Med Hospitals, Cancer Institute Teynampet, Tondiarpet, Kakinada, Noida, Apollo Children's Hospital, DRDO, Karur, ASH Jayanagar, Karaikudi, AMC Karapakkam, AWH SMR) reported data for Group C parameters.

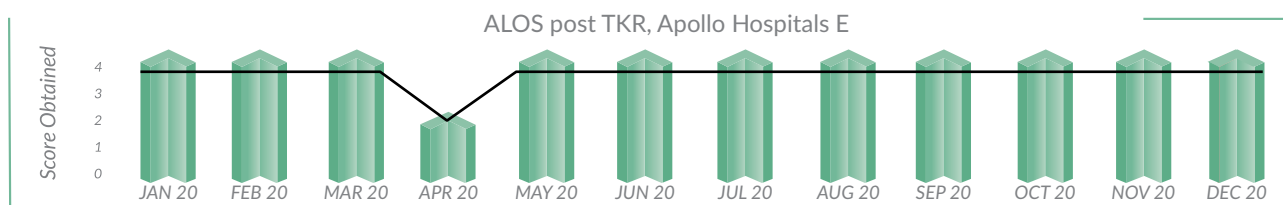
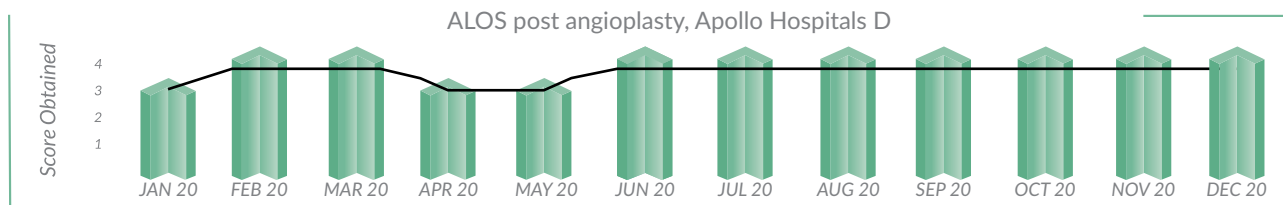
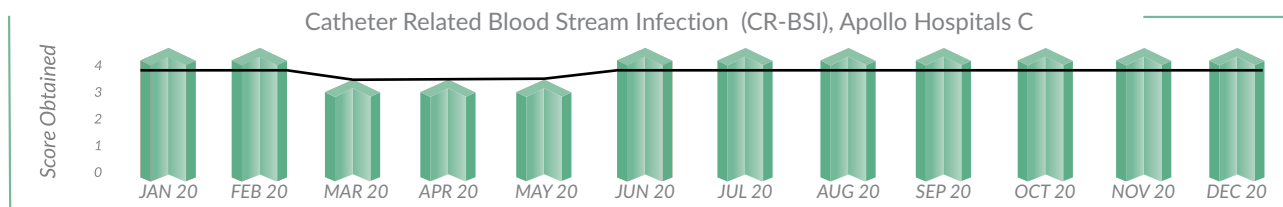
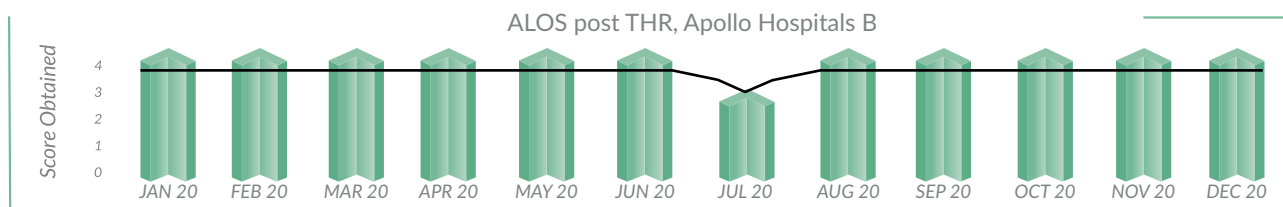
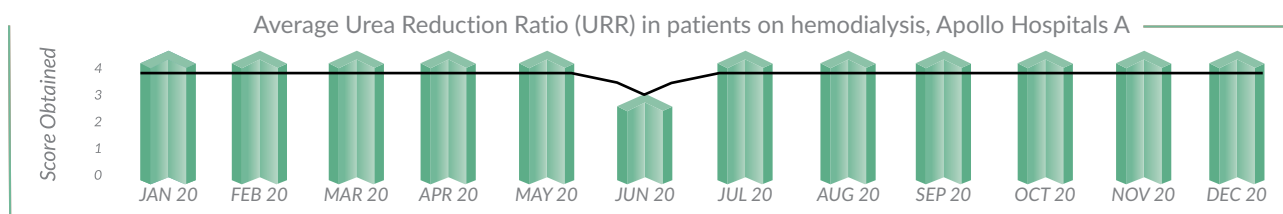


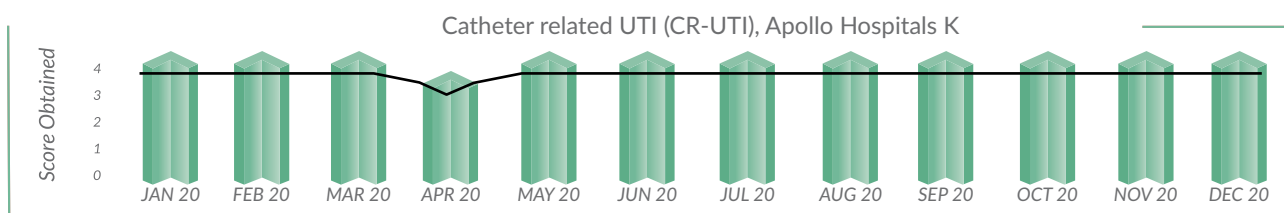
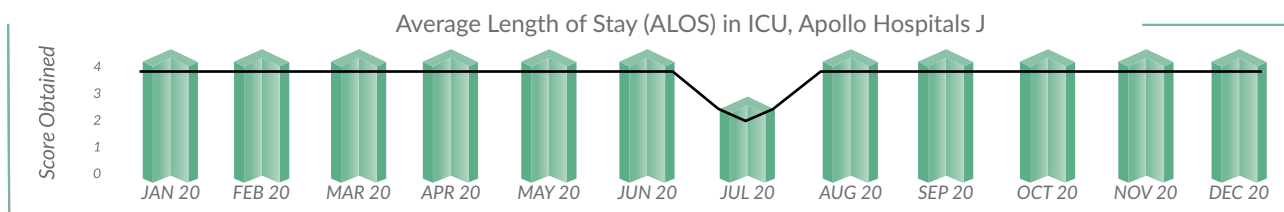
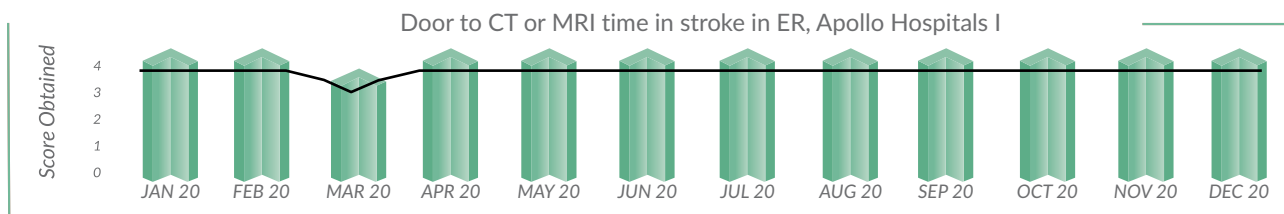
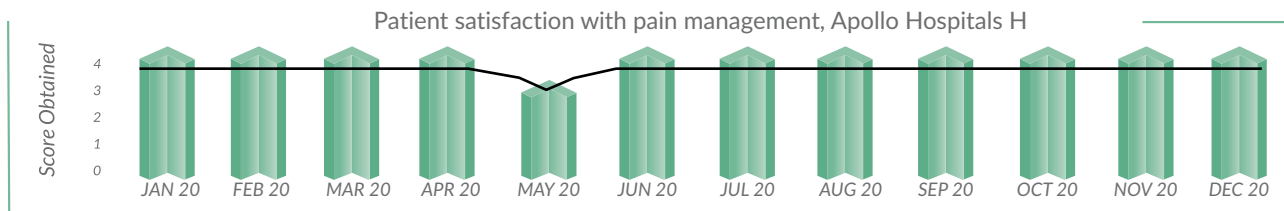
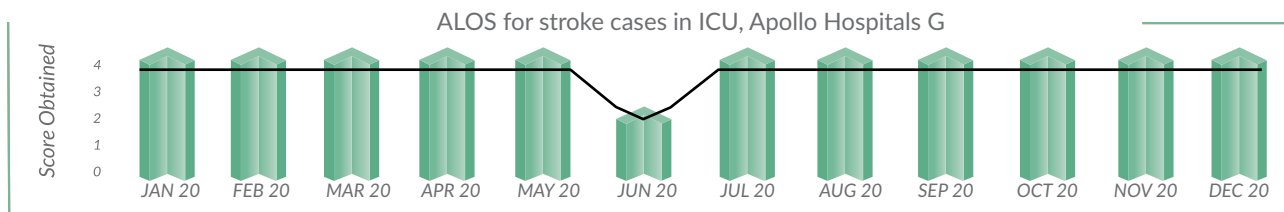
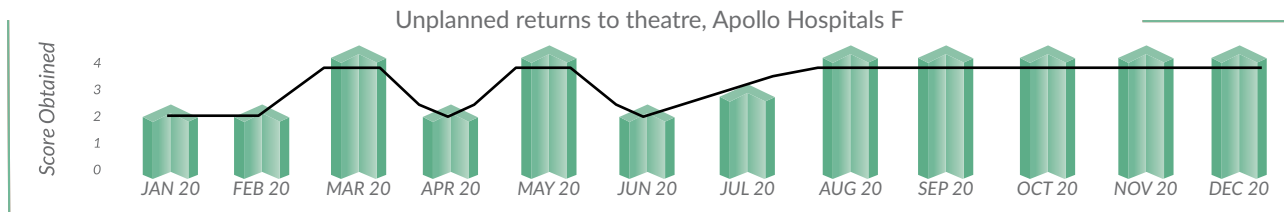


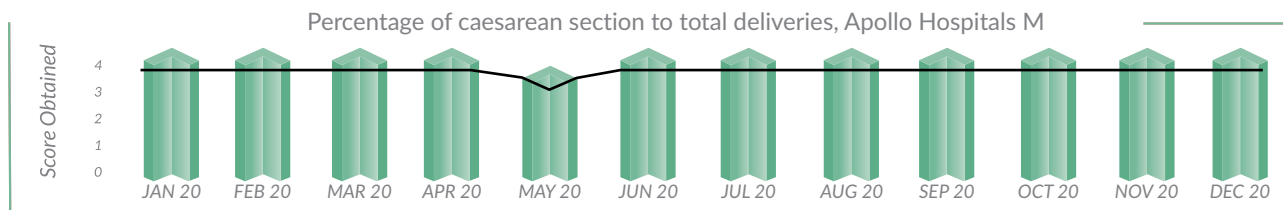
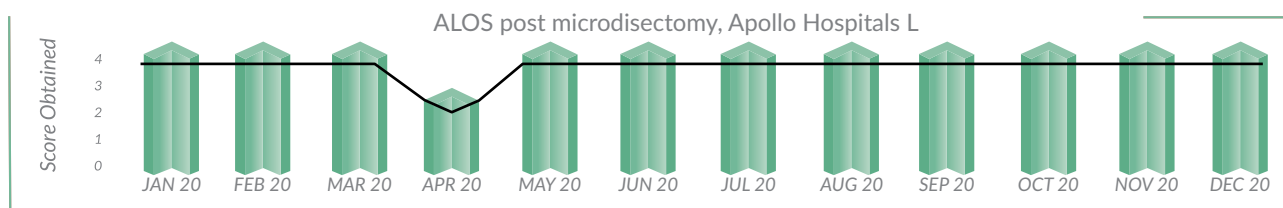
### Example of an ACE 1 parameter

| Indicator  | Benchmark        | Range       | Scoring |
|--|------------------|-------------|---------|
| Acute Myocardial Infarction (AMI) Mortality rate | 11.1%            | ≤ 11.1%     | 4       |
|  | Cleveland Clinic | 11.2%-11.6% | 3       |
|  |                  | 11.7%-12.1% | 2       |
|  |                  | 12.2%-12.6% | 1       |
|  |                  | >12.6%      | 0       |

### Few examples of outcome parameters trends:







## ACE 1 Awards

ACE 1 clinical excellence scorecard data has been reported for the last 11 years. The outstanding performances in each of the hospitals reporting Group A, Group B and Group C parameters are given recognition every year. The Average ACE 1 score for each hospital is computed. The hospital scoring the

maximum is awarded the ACE 1 Champion Award.

Apollo Hospitals, Bangalore reporting Group A parameters, Apollo Hospitals, Seshadripuram, reporting Group B parameters and Apollo Reach Hospitals, Karur reporting Group C parameters were declared ACE 1 champions and were awarded the trophies along with cash prizes.



ACE 1 Champion (Group A)- Apollo Hospitals, Bangalore



ACE 1 Champion (Group B)- Apollo Hospitals, Seshadripuram

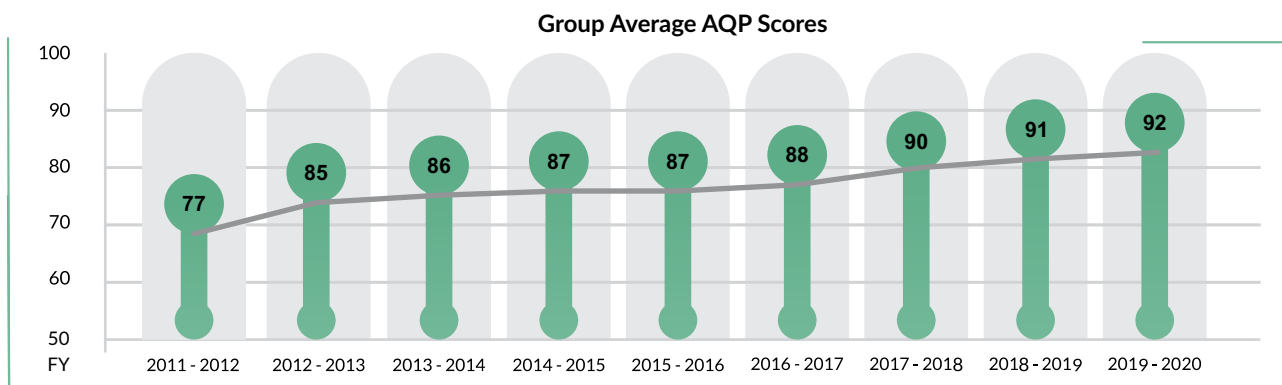


ACE 1 Champion (Group C)- Apollo Reach Hospitals, Karur

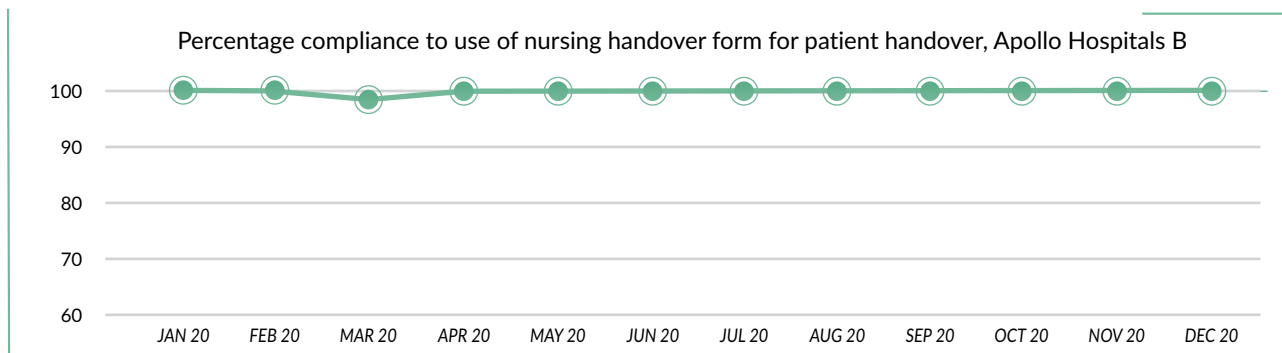
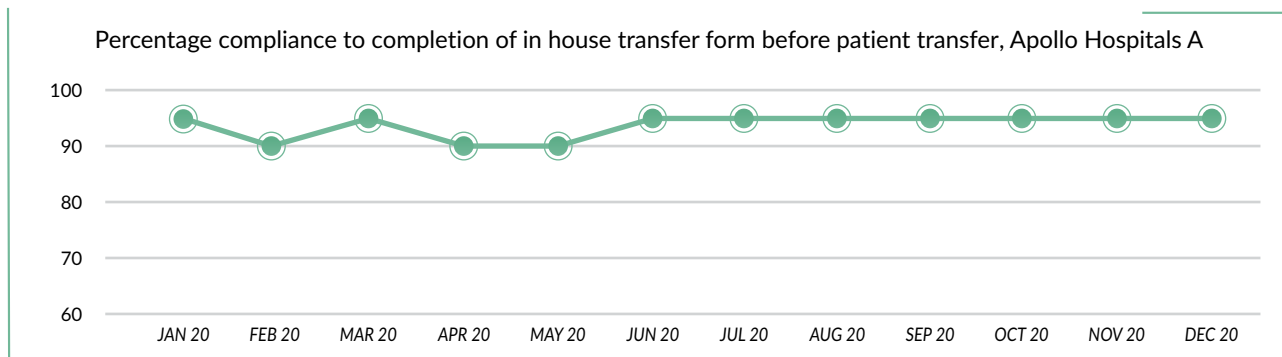
## Apollo Quality Program (AQP)

The Apollo Quality Program was started in December 2010 to implement patient safety practices in all our Apollo Hospitals irrespective of the accreditation status. It covers five broad areas: Safety during Clinical Handovers, Surgical Safety, Medication Safety, the Six

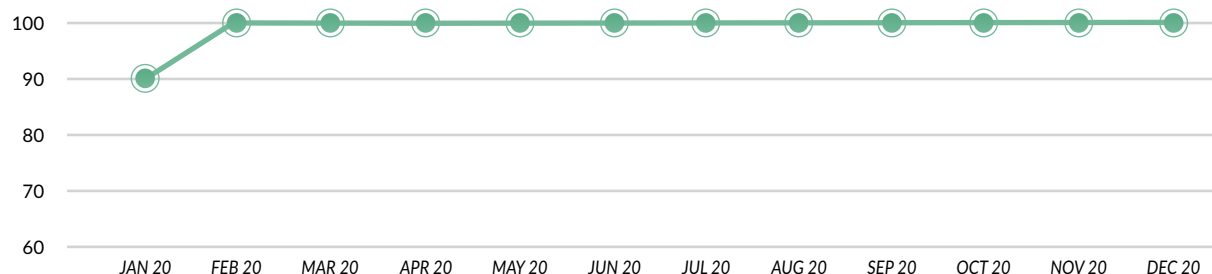
International Patient Safety Goals of JCI and Standardisation of Minimum Content of Medical Records. An analysis of the parameters in 2020 has shown an increase in compliance levels for various parameters. The average AQP scores at group level have also increased from 77 in FY (2011-12) to 92 in FY (2019-20).



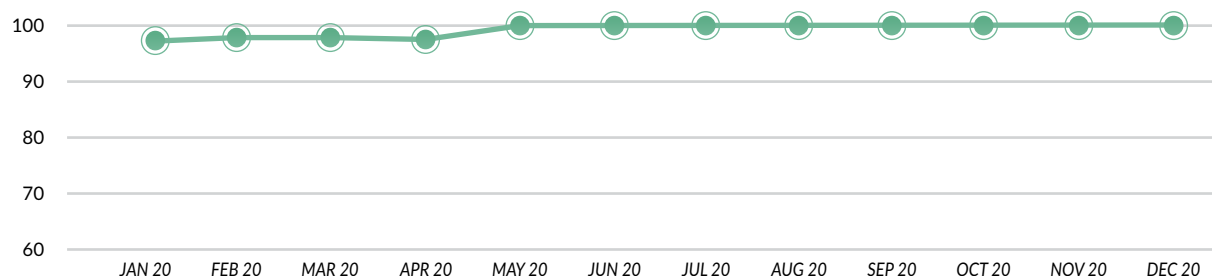
*Below are a few examples of improvement at different Apollo locations:*



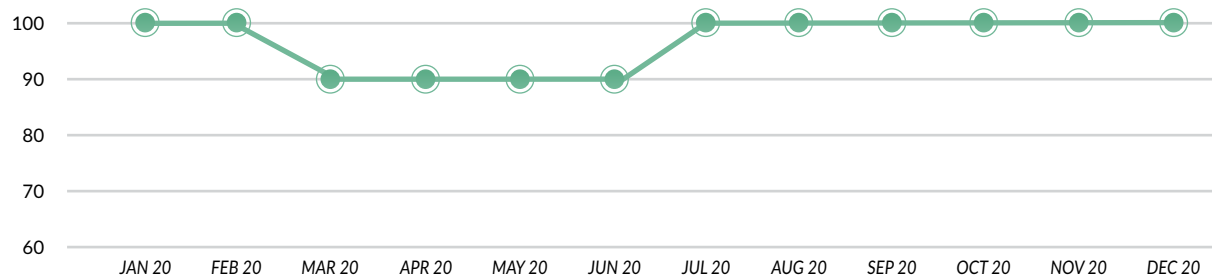
Percentage compliance to use of physician handover form for patient handover, Apollo Hospitals C



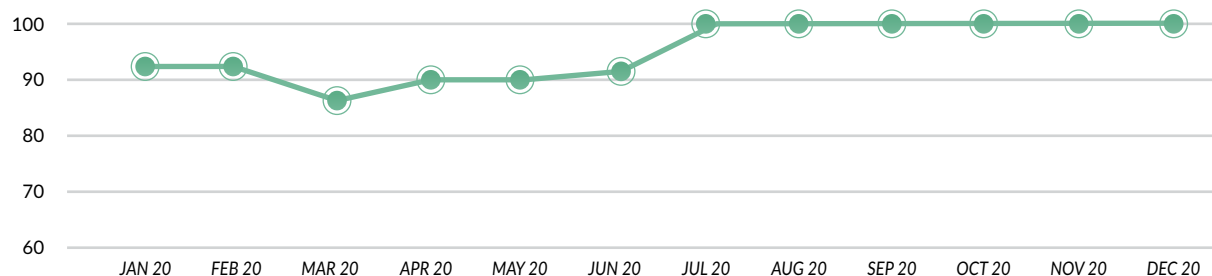
Percentage compliance to IPSPG 1 two patient identifier, Apollo Hospitals D

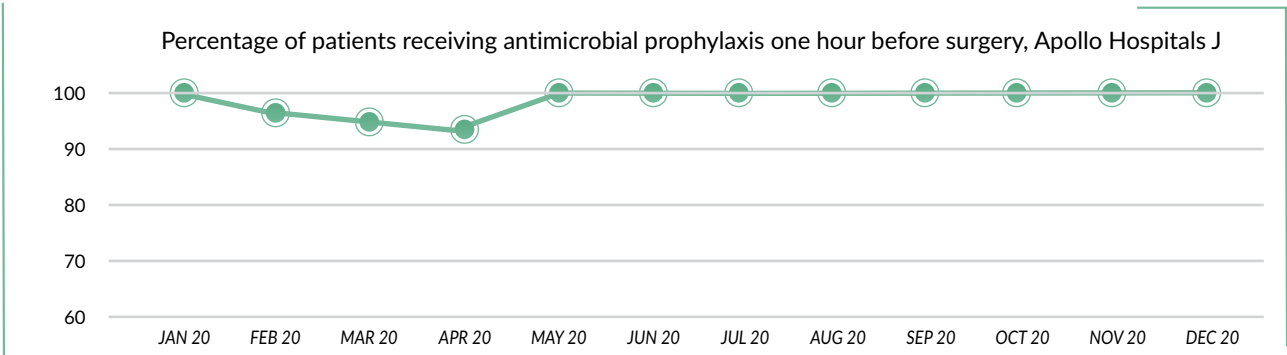
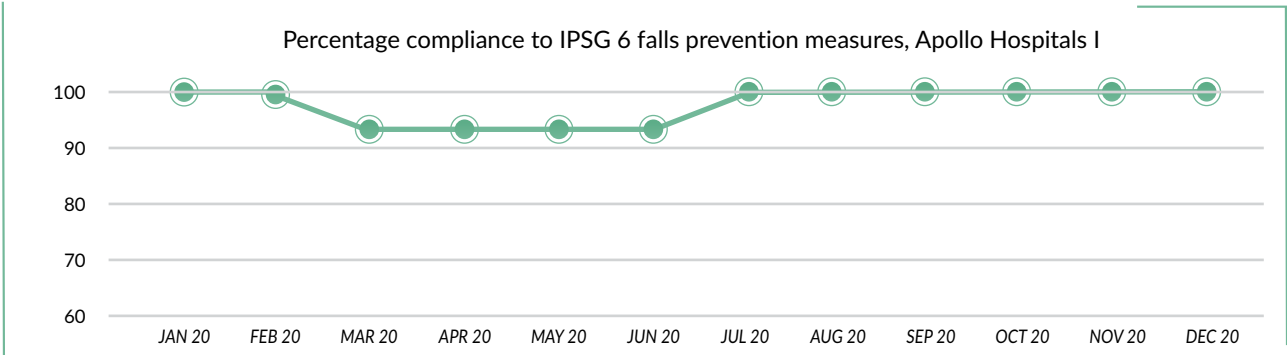
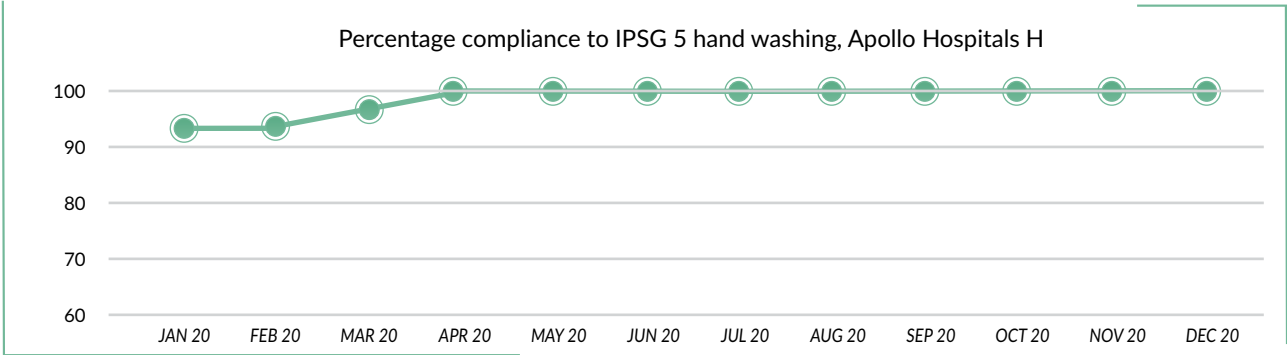
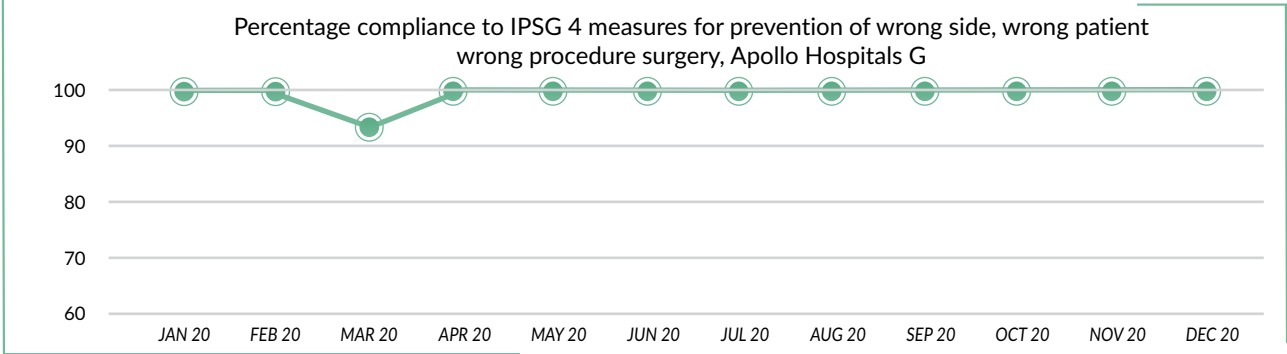


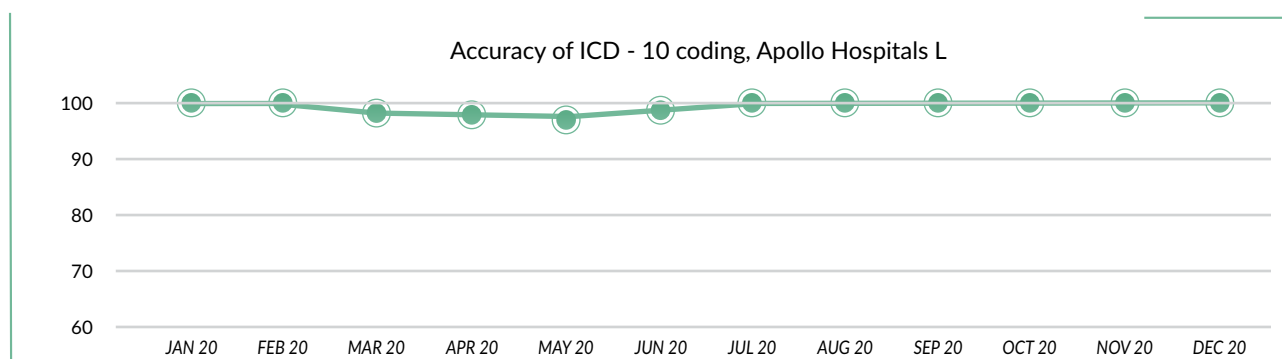
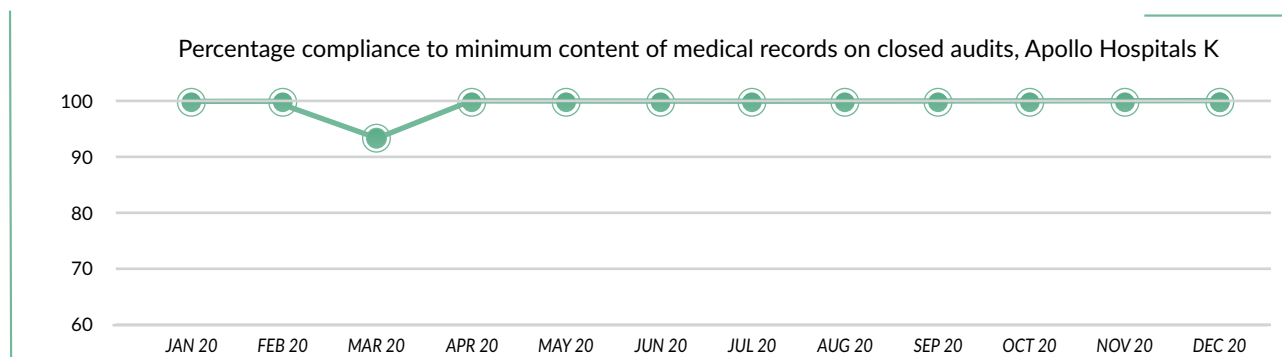
Percentage compliance to IPSPG 2 read back for verbal orders, Apollo Hospitals E



Percentage compliance to IPSPG 3 safety precautions for high alert medications, Apollo Hospitals F







## ACE Platform (ACEP)

ACE Platform (ACEP) is a standardized tool formulated by Apollo Hospitals, to share the best practices for clinical excellence and quality improvement for the benefit of the other healthcare providers outside the Apollo Hospitals Group. The initiative is pro-bono and is aimed at enhancement of the quality of healthcare delivered across India. The ACE platform can be used by any hospital across the country to drive quality improvement, patient safety and better clinical outcomes. ACEP comprises of important indicator sets for monitoring quality and clinical excellence along with policies which deal with the core processes in patient care. Policies and indicators sets for implementation along with training material are shared with the affiliated hospitals.

Over 60 hospitals outside the Apollo Hospitals Group

have so far implemented ACEP through affiliation and have consistently improved the implementation of quality in their respective hospitals.

### Criteria for inclusion of hospitals (outside Apollo Hospitals Group) for ACE Platform

Bed strength 15 beds or more

Laboratory services

Radiology services

Fully equipped ICU with ventilator

Operation theatre services

CSSD services

Duty Medical Officer (MBBS) at night

Registered nurses

24 hours emergency services

## Quality Teams Activities at Apollo Hospitals

Quality improvement at Apollo Hospitals aims at enhancing safety, effectiveness and efficiency so as to deliver excellent patient care along with best clinical outcomes. It is an ongoing process that helps to continually innovate and evolve the care delivery process through service excellence and patient safety, with the focus on improving outcomes. The challenge is to get better each year.

All hospital employees are required to participate in ongoing and systematic quality improvement efforts.

The following were the Quality activities at a glance for the year 2020:

### COVID-19 Management

COVID-19 has put enormous pressure on hospitals and the hospital infrastructure, processes and policies were required to revamp the infrastructure processes and protocols to meet the needs of Covid patients.

When the first case of COVID was reported in India, each unit of Apollo Hospitals undertook a gap analysis keeping in mind hospital-related risks of COVID-19. A table top drill was conducted to assess the current status of resources (personal protective equipment (PPE), equipment such as ventilators, pulse oximeters, thermal scanners), staff training and process automation levels to ensure a safe and minimal contact patient experience.

To make processes simpler and more accessible for patients', multiple technology enabled process automations were undertaken to give a better experience to patients like virtual-consultation, paperless registrations, online screening, thermal screens at the hospital entrances, bedside admission and discharge billing and fixed doctors rounds.

The aim was to provide care in the patient's vicinity and a safe, seamless patient experience with minimal contact or exposure to the patient while visiting the hospital for admission or a surgery.

Processes were created to provide contactless screening at the entrance, avoid mixing of patients

with other suspected or confirmed patients, lessen face-to-face interactions in queues/ waiting areas and safeguard the doctors and staff from infections while taking care of patients.

A task force was created and consisted of members from senior leadership, quality, operations, medical, nursing, information technology, innovation, service excellence.

### Initiatives during COVID-19 for Patient and Staff Safety

#### Red Book

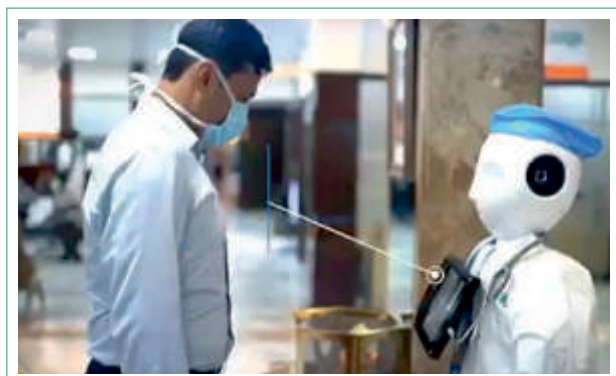
Infection control protocols, department-specific-checklists, SOPs and government guidelines in the form of a manual 'Red Book' were implemented as patient admissions for COVID-19 increased exponentially. It provided a roadmap for the units and enabled them to rapidly adapt to the tremendous challenges posed by the pandemic. The Red Book was regularly updated as per the revised guidelines and best practices.



#### Online Screening

An in-house online self-screening for COVID-19 was developed. For scheduled appointments/ admissions an online-screening link was sent to the patient's mobile to do a self-screening based on pre-defined criteria before coming to the hospital. Walk-in patients scan QR-code at the entrance for screening. If any one of the screening criteria is marked positive, patient falls into 'Grade-1' category and directed to the Fever Clinic.





## After Patient Arrival

### Paperless Registration

Patients often wish their healthcare experience could be as simple as flight check-in. Taking this cue, kiosks/tabs at multiple locations were set up for patient self-registrations.



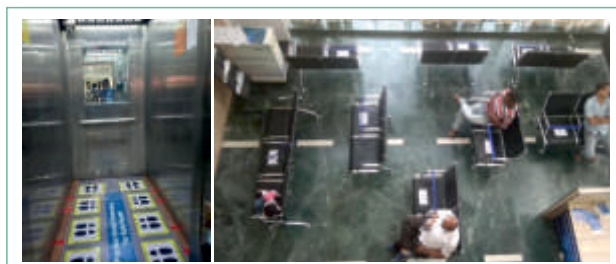
### Clean-Seal

Post cleaning, patient-rooms were sealed with 'clean-seal' sticker to ensure no one entered the room before the new-admission.



### Social Distancing

All waiting areas, lifts, lobby, In and Outpatient areas, sample collection and billing were revisited. Posters, reminders were inserted on chairs and floors.



### Housekeeping

Housekeeping kits were prepared for room cleaning, so that the house keeping staff did not go in and out multiple times while the patient was in the room. Cleaning and disinfection rounds in all areas of the hospital including all public areas were greatly increased. This included the cleaning and disinfection of all high touch surfaces.

### Bedside Admission/Billing

To eliminate the waiting time as well as crowding in the waiting area, bedside admission/billing process was initiated. This reduced waiting, the patient and family comfortably out of the public area and enabled initiation of care, as soon as the patient arrived in the hospital for admission.



### Fixed Doctor Rounds

Round timings were fixed so that the family could obtain an update about patient's condition.

### Prism

The online-portal gave access to patient's lab reports and discharge summaries directly from anywhere, anytime.

### E-education

E-brochures were prepared and used to educate patients/attendants by uploading on prism and through TV/Digital screens.

## Post-Discharge

### Follow-up calls

On the 7th day of discharge the treating consultant conducted a virtual follow-up call with the patient to take an update about the medical condition.

Daily Leadership Huddles were conducted to reinforce positive patient-experience behaviour amongst the staff.

## Quality Watch

The following monthly themes were observed:

### Clinical and Documentation

- Epidemic drills were conducted across all units
- Red Book roll out
- Department specific COVID management protocol was emphasized

### Infection Control VAP/BSI/UTI Free Month

- Celebrated World Hand Hygiene Day on 5th May
- Focus on Red Book compliance
- Close monitoring of staff infection rate

### Facility Safety, Fire Safety and Safety Culture

- Conducted facility and safety rounds across the hospitals covering clinical and non-clinical areas
- Conducted fire safety training
- Conducted equipment recall drills
- Conducted water and diesel mock drills

### Medication Safety

- Campaign and training on medication safety to all doctors and nurses
- Created video on medication safety and antimicrobial stewardship and circulated to all doctors and nurses
- Medication system tracers were conducted
- Online virtual sessions on antibiotic rational use were organized
- Medication errors data and trends were circulated and discussed amongst the staff
- Batch tracking to ensure the integrity of supply chain was carried with help of Purchase and Quality Teams.

### Ventilation Associated Pneumonia (VAP) Free Month

- Organized campaigns and training on VAP bundles on the floors for doctors and nurses

- Created video on VAP bundles and circulated to the all doctors and nurses
- Focussed audits on VAP bundle compliance
- Virtual sessions for nurses by the infection control team

### Anaesthesia and Surgical Safety

- Celebrated World Anaesthesia Day on 16th October across the Group. Cake cutting arranged for the anaesthetists in all hospitals
- Focused tracers on anaesthesia and surgical protocols compliance
- Workshops were conducted for modifying the consent process and forms
- Anaesthesia safety drive in procedure and sedation areas
- MCQs on anaesthesia and surgical care conducted for OT nurses



### Environmental Management and Equipment Safety

- Disaster drill conducted across all units
- Tracer on biomedical waste
- Training on equipment safety and clinical alarms
- Mock drills on biomedical equipment recall
- Conducted facility and safety rounds with special focus on equipment safety across the hospitals and covered clinical and non-clinical areas.

### Safety Culture Survey

A total of 20,913 employees across all the hospitals participated in the Safety Culture Survey 2020. The results, were analysed to drill down on the reasons of outcomes and plans were developed for improvement.

### Accreditations

JCI and NABH accreditation and reaccreditation cycles were successfully completed at various Apollo Hospitals

### Events, Workshops and Activities

- 360-degree virtual survey was rolled out across all units
- Over 160 Six Sigma Projects (Yellow and Green Belt) were undertaken across the Group after the virtual training
- Over 12 ACKN sessions were conducted by the Quality team members
- There was 100% compliance to Quality Calendar Activities
- 15 Years of Accreditation in India

A webinar was conducted on the 28th August 2020 to

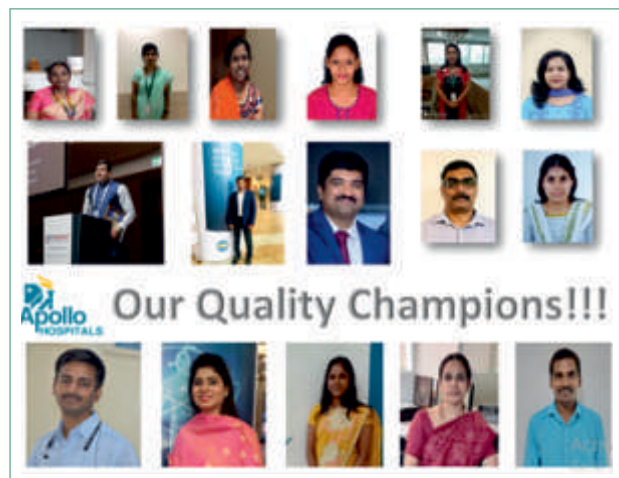
celebrate '15 Years of Accreditation in India'. Speakers from Joint Commission and NABH deliberated through the session. More than 400 participants attended the session.

- **World Patient Safety Day 2020**

Patient Safety webinar was conducted on the 17th of September 2020 to commemorate the WHO World Patient Safety Day. Healthcare leaders and patient safety experts were invited for a panel discussion. Best practices and videos were shared by all units.

- **World Quality Day 2020**

Virtual celebrations were carried out across the organisation on World Quality Day on 12<sup>th</sup> November 2020 by the Quality Team members. World Quality Day gives us the opportunity to highlight how quality can help to create customer-focused organisations.



## **Apollo Health and Lifestyle Limited (AHLL)**

Apollo Health and Lifestyle Limited (AHLL) is an Apollo Group initiative which takes healthcare services from the hospitals settings, closer to home within neighbourhood locations, in order to serve the

community better. It is a network that has various healthcare business verticals like, Apollo Clinics, Apollo Cradle, Apollo Spectra Hospitals, Apollo Diagnostics, Apollo White Dental and Apollo Dialysis.

**Apollo Clinic** was introduced with the vision of serving local communities and making world-class healthcare available for daily health needs in the neighbourhoods.

**Apollo Sugar** provides end-to-end care and management of diabetes and related complications for the community.

**Apollo Cradle** was the first to introduce the concept of an exclusive, standalone healthcare centre for women and that also offers pediatric care.

**Apollo Spectra** provides world-class surgical care that is accessible and available at an affordable cost.

**Apollo Diagnostics** provides a full spectrum of high precision diagnostic services based on which Apollo's healthcare practitioners design and deliver the most appropriate treatment plan to reduce patient's mortality and morbidity levels.

**Apollo WHITE** is a first of its kind dental care brand with a fleet of seven-star dental spas, studios, clinics and express centres spread across the country, offering premium services, Avant Garde Cosmetic Dentistry and simple, affordable dental services.

**Apollo Fertility** offers several specialized investigative procedures for infertility in men and women giving couples their very best chance of a successful pregnancy. Along with the state-of-the-art technology and clinical protocols that are closely monitored, Apollo Fertility gives the expertise and technology to increase a couples' chances for child bearing.



|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

## Achieving Excellence in Quality at AHLL through Technology- Apollo Q4E Mobile Application

Quality and patient safety are an inherent part of the culture at Apollo Hospitals. Apollo Q4E App is a comprehensive tool for upholding AHLLs standard of excellence in Continuous Quality Improvement.

The application strives to bring the complete Q4E Program of Apollo Health & Lifestyle Ltd to the fingertips of the employees with the convenience of using it in any kind of system like desktop, tabs or mobile phones. The application also intends to make the complete quality improvement journey paperless with the use of technology and automation, faster communications and lesser turnaround times.

The major features of the application are:

- Online Incident Reporting Process
- Unit-wise Performance Dashboards
- Online Outcome Measures Dashboards
- Focused Internal Audit Documentation
- Emergency Code Mock Drill Documentation
- Governance Committees
- Surveys
- Trainings and Events
- Documentations and Learning
- Communications and Gallery

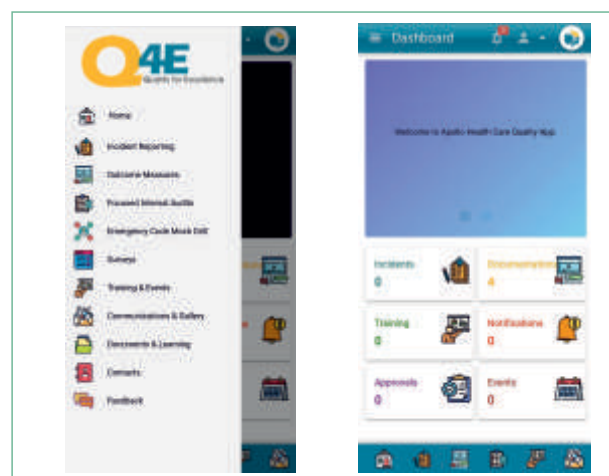
The advantages of the application are:

- Convenience of usage for employees
- Quality system activities going completely paperless
- Safer data utility

- Better document control
- Faster communication

The application is available in all three versions viz. Web version, Android and iOS versions. A total of 1,654 employees are registered users in the application.

All quality activities including outcome measures data monitoring, audits, documentations, incident reporting, communications and training have been incorporated into the application. Dedicated tabs have been provided to the Quality SPOCs at all the units bringing down the paper usage for quality activities to zero and also improving the turnaround times.

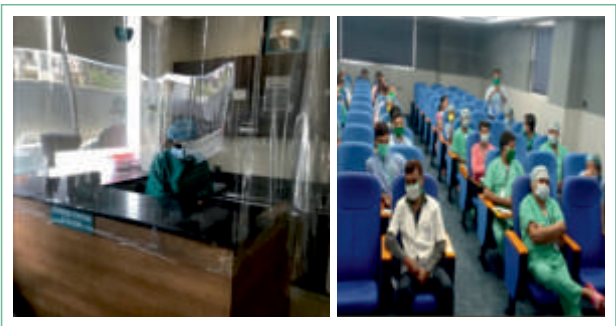
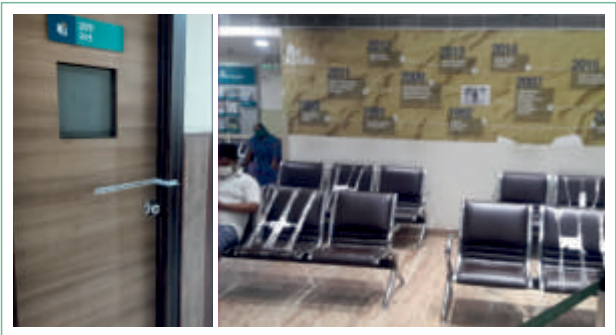
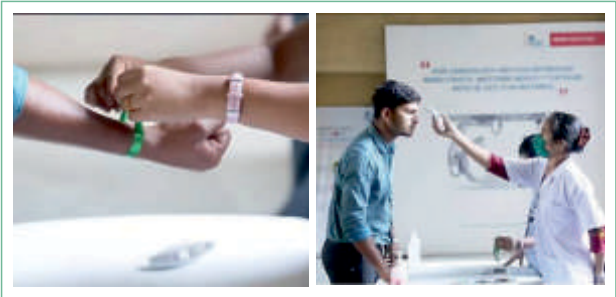


## Fight Against COVID-19

Red Book Compliance was strictly adhered to. More than 500 virtual calls and training on COVID-19 protocols and compliances were conducted across AHLL. A daily dashboard was shared with senior management for review and guidance. Over 250 COVID-19 virtual audits were conducted across various units of AHLL.

Increased cleaning frequency and disinfection of high touch areas and "Door Seal System" was introduced. Concept of "cohort of staff" was introduced to reduce staff interaction and exposure. Virtual consultation

services were made available to mitigate risk of exposure. Fever Clinic was established for suspected cases. Paperless registration and protective shield was provided at receptions. COVID Warriors were rewarded.



COVID protocols in compliance at AHLL

### Quality for Excellence (Q4E) Awards 2020

The Quality for Excellence (Q4E) Programme ensures continuous quality improvement across all of the AHLL platforms and centres, through its various initiatives like Q4E Outcome Measures Programme, Q4E Surveys, Peer audits and accreditation standards implementation. Q4E Awards are part of the Q4E programme wherein the best performing centre in terms of quality is given recognition. The winning centre is awarded a trophy on Founder's Day, in addition to a cash incentive for every staff member of the centre.



Best Apollo Clinic – Nigdi, Pune



Best Apollo Cradle – Brookefield, Bangalore



Best Apollo Diagnostic Lab – RRL Pune



Best Apollo Dialysis Clinic – Nalbari, Assam



Best Apollo Fertility – JP Nagar, Bangalore



Best Apollo Spectra Hospital – Kondapur, Hyderabad



Best Apollo Spectra Hospital – Karolbagh, Delhi



Best Apollo White Dental Clinic - BG road, Bangalore



Best Apollo White Dental Clinic - Sahakar Nagar, Bangalore

## Apollo Continuous Medical Education Program

Continued Medical Education (CME) is an essential requirement of all practising clinicians to keep themselves abreast of the recent advancements in the healthcare.

The CMEs are also a very powerful medium to reach out to community physicians. Various CME programs have been designed to cater to the professional

development needs of the doctors with respect to their expertise level and interests. Through these programs, Apollo Hospitals were able to touch base and up-skill the knowledge and skills of the doctors practising in the community.

### Apollo Clinical Program (ACP)

For General Practitioners, ACP aims to up skill the General Physicians (GPs) and covers important practice areas like Non- Communicable Diseases (NCDs).



## MediNew and SurgiNew

MediNew and SurgiNew are professional development programs for specialist doctors in the field of Internal Medicine, Orthopaedics, Laparoscopic Surgery, Paediatrics, Gynaecology, ENT, Pathology and Radiology.

## MedVance and SurgVance Program

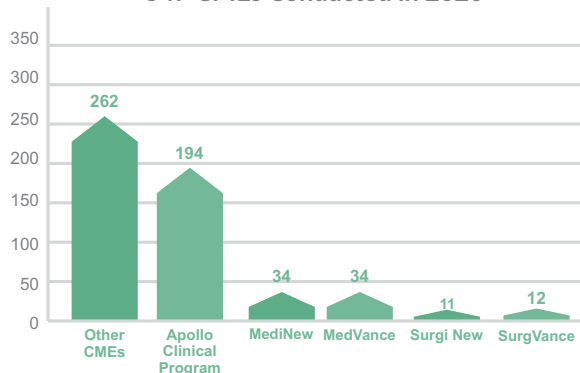
MedVance and SurgVance are designed to enhance the skills of the super-specialists. These programs provide a platform for sharing medical advancements

such as innovative technologies and techniques, newer drugs and treatment protocols. This program has been designed for super-specialist doctors in the field of Neurology, Neurosurgery, Nephrology, Transplants, Oncology, Cardiology, Cardiac Surgery, Critical Care, Endocrinology, Gastroenterology, Urology and Rheumatology.

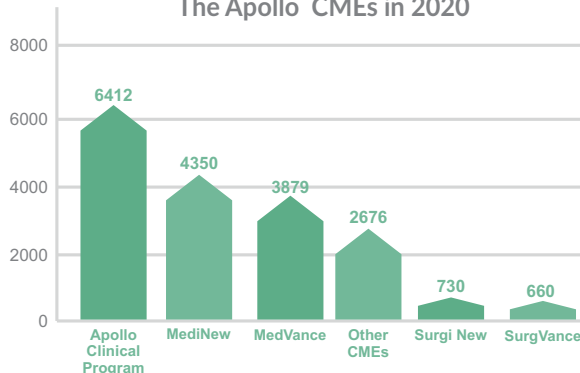
CME Credit Points are also given by the respective State Medical Councils for these programs. Partnerships with various pharmaceutical, medical devices and biotech companies have been established for effective outreach.

|                 |                           |                      |                        |
|-----------------|---------------------------|----------------------|------------------------|
| Target Audience | General Practitioners     | Specialists          | Super Specialists      |
| CME Program     | Apollo Clinical Programme | MediNew and SurgiNew | MedVance and SurgVance |

547 CMEs Conducted in 2020



18707 External Doctors Attended The Apollo CMEs in 2020



## Apollo Clinical Innovation Group (ACIG)

Apollo Hospitals have been leaders in the adoption of new technology and treatment protocols. To maintain this leadership position, a structured decision making process has been developed for this emulation of new technologies in treatment processes procedures,

involving stakeholders at all levels. Proposals are recommended to senior leadership for final consensus and approvals. ACIG has been formulated to introduce best practices and latest technologies to delineate clinical innovation for implementation across Apollo Hospitals Group. In 2020 ACIG conducted 18 meetings and engaged 77 consultants to facilitate the formulation of 32 innovation proposals.





## Innovative Technologies/ Clinical Protocols Implemented in 2020

| Innovation – Procedures and Processes              | Implementation/availability at Apollo Hospitals locations  |
|--|--|
| Video Laryngoscopy                                 | Delhi, Mumbai, Kolkata, Ahmedabad, Chennai, Bangalore, Vanagaram, AFMH, Jayanagar, Mysore, Nashik, OMR Chennai, ACI Chennai, Kochi |
| Code Fast  | Delhi, Hyderabad, Chennai, Kolkata, Bilaspur, Vanagaram, AFHM, Vizag, Jayanagar, Mysore, Nashik, Lucknow                           |
| Trans Arterial Chemo Embolization                  | Delhi, Hyderabad, Navi Mumbai, Kolkata, Ahmedabad, Chennai, Bangalore, Bilaspur, Vanagaram, Vizag                                  |
| Deep Brain Stimulation                             | Kolkata, Delhi, Chennai, Ahmedabad, Hyderabad, Bangalore   |
| Hipec  | Ahmedabad, Chennai, Delhi, Kolkata, Navi Mumbai, Lucknow   |
| Cardiac Rhythm Disorder Centre                     | Hyderabad, Kolkata, Chennai, Bangalore   |
| Mechanical Thrombectomy                            | Ahmedabad, Chennai, Delhi, Kolkata, Navi Mumbai  |
| Prostatic Artery Embolization                      | Delhi, Ahmedabad, Kolkata, Chennai, Hyderabad  |
| O Arm Machine                                      | Hyderabad  |
| Neuro Suite  | Hyderabad  |
| Robotic Assisted PCI                               | Chennai  |
| Automatic Bladder Scanner                          | Chennai, Bangalore, Delhi  |
| Orthopedic Robot /Robotic Joint Arthroplasty       | Jayanagar in Bangalore, Indore   |
| Trans Oral Robotic Surgery (TORS) for sleep Apnoea | Delhi, Chennai, Kolkata,   |
| Vacuum Assisted Biopsy                             | Delhi, Chennai, Ahmedabad  |
| Pharmacogenetic Testing                            | Delhi, Chennai   |
| Out Patient Arthroplasty                           | Indore, Hyderabad  |
| Automatic Breast Volume Scanner                    | Chennai, Delhi   |

## Success Stories

### 3D Printing in Orthopedics

Source: Department of Orthopedics, Indraprastha Apollo Hospitals, New Delhi

3D printing was used for the management of 20 patients with complex orthopaedic trauma as a pilot project, at Indraprastha Apollo Hospitals, New Delhi. 3D printing was found to be extremely beneficial for planning of complex fractures, especially that of the acetabulum, pelvis (Fig. 1,2,3) and the other regions where there is an intra-articular involvement. It was also very helpful in the correction of bone and joint deformities. Not only, can one do a virtual pre-operative planning of the surgery, but can also pre-

mould the metallic implants for use during the surgery making it much easier and a less complex procedure.



Figure 1: A 3-D printed model of the pelvis showing a complex fracture involving the acetabulum



Figure 2: Virtual planning of the surgery for fracture fixation and Total Hip Replacement Surgery



Figure 3: Post-operative radiograph showing fracture fixation and Total Hip Replacement surgery executed as per the pre-operative planning

## 3D Printing in Neurosurgery

Source: Department of Neurosurgery, Apollo Hospitals Navi Mumbai

Neurosurgery has some of the widest applications for 3D printing, spanning across bone as well as soft tissue. Not just modeling but excising the tumors correctly using a cutting guide and replacing the same with custom 3D printed titanium implants. This can provide patients with the best possible solutions.

### Case 1

A 41 year old male met with a road accident that resulted in a traumatic brain injury and was promptly taken to Apollo Hospitals, Navi Mumbai. When brought in, he was unconscious, with evident CSF rhinorrhea and otorrhoea from the left ear, and herniating brain tissue from the left nostril.

Once the patient was stabilized, he was taken for an urgent craniotomy for evacuation of subdural hematoma, intra-cerebral contusion, and repair of the skull base. He was then moved to the ICU for recovery, which in view of the severe brain injury was slow. He was finally discharged as his sensorium had improved.

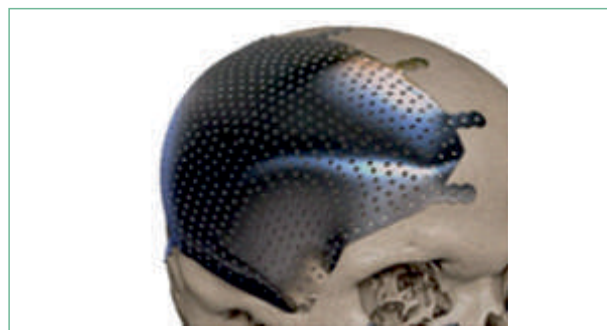
The patient's brain was allowed to heal for several months before the planned cranioplasty. The team of doctors at Apollo Hospitals, Navi Mumbai, had to ensure the best possible cosmesis without major intraoperative manipulation of the skull base repair.

The defect also covered a large part of the forehead extending to the bridge of the nose and the left supraorbital ridge - all of which had cosmetic implications. Hence, 3D-printed titanium implant was opted because it would closely replicate the shape of the patient's skull. The patient underwent cranioplasty with the implant, after which he made a swift recovery and was discharged three days later.

3D-printed implants are beneficial for multiple reasons like it fits the patient's form, are MRI compatible and pose lesser chances of getting infection.

### Case 2

A 31 year old female, experienced headache, vomiting and slurring of speech six days post her delivery. The patient had a right frontal intracranial bleed for which she underwent right frontal and parietal decompression craniotomy. Patient recovered well. Further, right craniostomy was successfully performed for the patient. As the patient wanted good aesthetics, a 3D mesh implant was planned for her. Post procedure patient was discharged in a hemodynamically stable condition.



3D Mesh Implant

## Prostate Artery Embolisation for Non-Surgical Treatment of Prostrate

Source: Department of Interventional Radiology, Apollo Hospitals, Ahmedabad.

At Apollo Hospitals, Ahmedabad, non-surgical treatment options are available as a permanent cure

for Grossly Enlarged Prostate with increased urination at night.

**Prostate Artery Embolisation (PAE):** Is performed through angiography in which a tiny catheter is introduced from femoral artery in the groin. This procedure relieves the frequency of passing urine especially at night. The symptoms disappear in as many as 75-80% of treated patients. There is no need of surgery and no need of a urinary catheter. Next day the patient can go home and can use the toilet six hours after treatment.

## TACE – Trans Arterial Chemo Embolization

*Source: Department of Interventional Radiology, Apollo Hospitals, Bangalore*

TACE is one of the recommended treatments for hepatocellular carcinoma, intermediate stage.

It is a localized form of chemotherapy for the treatment of the liver tumor, with lower dose and lesser side effects. Apollo Hospitals, Bangalore has performed 15 TACE procedures.

Proper imaging is essential for a successful TACE. A triphasic CT or MRI is required to study the number and size of the lesions. Imaging also gives information about portal vein thrombosis and extrahepatic spread of the disease in which case, TACE will not be beneficial.

Basic blood tests include Complete blood count, Liver function test, AFP, Prothrombin time and Serum electrolytes. Chest X-ray, ECG and ECHO are also done.

The procedure is done in the Cathlab under Fluoro guidance. Access is obtained by puncturing the common femoral artery or the radial artery. Doxorubicin is the most commonly used drug. Mitomycin and Cisplatin also can be used. Lipiodol is used as a carrier agent for the drug. Alternatively, drug eluting beads also can be used along with Doxorubicin. Patient is usually discharged the following day. Post procedure follow-up includes imaging and AFP after 6-8 weeks to assess the response to the procedure.

TACE is a simple palliative procedure done for hepatocellular carcinoma, which helps in controlling the disease and also to buy time in patients waiting for transplantation. It helps in increasing the survival of liver cancer patients and giving them a better quality of life.

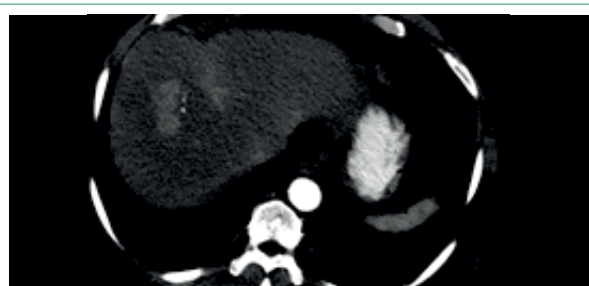


Fig 1. Arterial phase enhancing lesion in segment 8 of liver – HCC

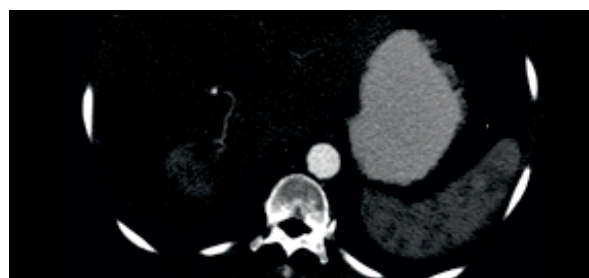


Fig 2: CECT showing the feeder vessel to the enhancing lesion in segment 7 of liver

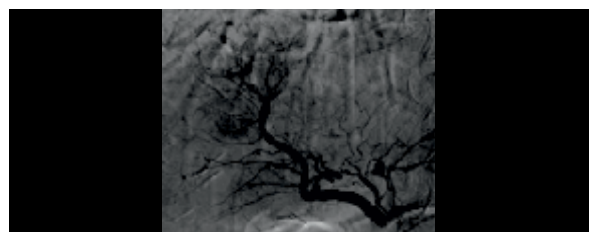


Fig 3. Celiac angiogram showing tumor blush in right lobe of liver.

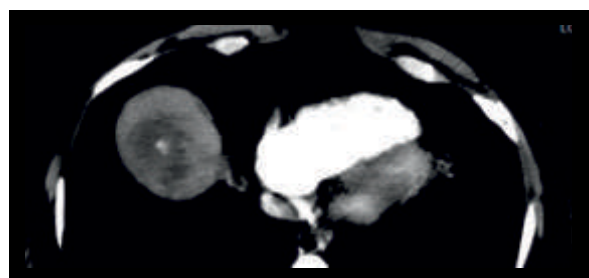


Fig. 4: Post DEB TACE, follow up CT showing necrotic tumor in segment 8 with significantly reduced enhancement.

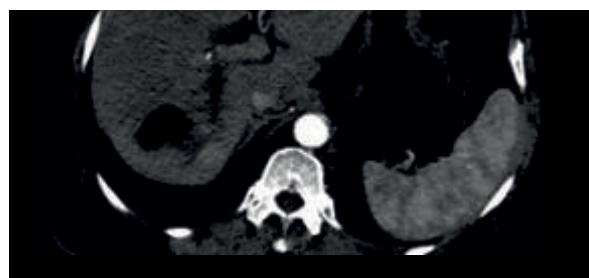


Fig. 5: Post DEB TACE, follow up CT showing necrotic tumor in segment 7 with significantly reduced enhancement

## HIPEC: (Cytoreductive Surgery with Hyperthermic Intraperitoneal Chemotherapy)

*Source: Department of GI Surgical Oncology, Apollo Hospitals Navi Mumbai*

HIPEC is an innovative procedure used to treat cancers that have originated in or spread to the abdominal cavity, such as appendiceal cancer, pseudomyxoma peritonei, colon cancer, gastric cancer, ovarian cancer, and peritoneal mesothelioma.

Hyperthermic Intraperitoneal Chemotherapy (HIPEC) is delivered in the operating room once the cytoreductive surgical procedure is finalized and constitutes the most common form of administration of perioperative intraperitoneal chemotherapy.



*HIPEC procedure being performed at Apollo Hospitals, Navi Mumbai*

### Case:

A 45 year' old female patient with no comorbidities was a known case of recurrent ovarian cancer. She was diagnosed with Ca Ovary in 2009 and treated elsewhere with surgery followed by adjuvant chemotherapy. She had locoregional recurrence

(pelvic) in 2014 which was managed by surgery followed by observation. She had a second recurrence in 2017, again locoregional limited to pelvis, managed by surgery followed by chemotherapy. In 2018, she again developed recurrence in the peritoneum, for which she was started on palliative chemotherapy. The patient was referred to Apollo Hospitals, Navi Mumbai for further management. After thorough evaluation of history and investigations the case was discussed in the Multi-Disciplinary Team (MDT) and a decision was taken to offer CRS+HIPEC in view of prolonged DFI, young age, good performance status with pelvis limited recurrence.

During the operation, complete extra-peritoneal mobilisation was done with safeguarding of bilateral ureters and iliac vessels. The peritoneal sac was then opened and complete partial peritonectomy performed achieving CC-0 (R0) resection with minimal blood loss. Intraperitoneal chemotherapy was then instilled using Cisplatin heated at 43 degrees Celsius for 90 minutes. During HIPEC, particular care was taken to maintain adequate urine output and maintain euthermia. The patient tolerated the procedure well and was extubated on table. Postoperative recovery was uneventful and the patient was discharged on POD 6. Histopathology report revealed residual high grade serous adenocarcinoma. No adjuvant therapy was advised as she had received multiple lines of chemotherapy in the past. On six months follow up, the patient was doing well with no recurrence.

## Robot Assisted Kidney Transplantation (RAKT)

*Source: Department of Robotic Urology, Apollo Hospitals Navi Mumbai*

Robot Assisted Kidney Transplantation (RAKT) is a minimally invasive technique that uses a robotic support to perform a kidney transplant. As a high level of expertise is required in kidney transplant and robotic surgery RAKT is performed by transplant surgeons who have obtained extensive training and experience in robotics and transplant surgery.

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

The following are the advantages of robotic kidney transplant surgery over open kidney transplant surgery-

Technical advantages:

- The robot replicates the surgeon's hand movements, while minimizing hand tremors. The surgeon thus can not only make use of his/her experience and skills, but also operate with precision, dexterity and control in complex procedures.
- Especially useful when the operative field is deep and narrow, and requires fine dissection and micro suturing.

Improved patient outcomes:

Robotic surgery in kidney transplant offers many benefits like:

- Decreased chances of complications as compared to open surgery, especially in immunocompromised and end-stage renal disease patients undergoing kidney transplants.
- Safer and more efficacious for obese patients who are otherwise not recommended for transplants.
- Minimal invasive surgery helps in reducing:
  - Blood loss
  - Hospital stays
  - Pain
  - Postoperative complication rate
  - Recovery time
  - Surgical scars

Apollo Hospitals Navi Mumbai, started the kidney transplant program in April 2017. Till date 160 transplant surgeries have been performed. Over 40 transplants were performed during COVID pandemic with successful outcomes and without any COVID related complications.

Recently robotics has been incorporated into transplants and living donor nephrectomies have been performed robotically. Till date 19 robotic donor surgeries have successfully been performed.

## Apollo Innovation and Quality Awards 2020

Apollo Innovation and Quality Awards is a platform that felicitates and rewards hospitals within the Apollo Group for their diligent efforts and innovations to persistently improve patient care, quality and safety.

Nominations for Apollo Innovations and Quality Awards 2020 were invited from all locations in seven categories:

- Excellence in Clinical Services
- Excellence in Community Services
- Excellence in Environmental Conservation
- Excellence in Finance
- Excellence in HR Practices
- Excellence in Operations
- Excellence in Quality Management and Patient Safety

One hundred forty-two nominations were received from 24 units.

The nominations were judged by an esteemed panel of jury:

### Excellence in HR practices

Dr Yash Pal Bhatia

Mr SV Kiran

### Excellence in Finance

Mr Krishna Kumar

Mr Manian KBS

### Excellence in Clinical Service

Dr Arun Kumar Agrawal

Dr Rana Mehta

### Excellence in Environmental Conservation

Mr Nanda Kumar

Mr Ravichandran

### Excellence in Community Services

Dr Dilip Mathai

Mr Gerald Jaideep



## Excellence in Operations

Mr Lalit Mistry

Mr Vikram Thaploo

## Excellence in Quality Management and Patient Safety

Dr JK Das

Dr Girdhar Gyani

The winners in each category were:

| Clinical Services                          |  |
|--|--|
| Winner                                     | Projects   |
| Apollo Hospitals, Chennai                  | First Successful Abdominal Wall Transplant in combination with a Small bowel Transplant in Asia                              |
| Special Recognitions                       |  |
| Apollo Tele Health Services                | Medical Response Center – TeleHealth   |
| Apollo Hospital, Indore                    | Intra Vascular Lithotripsy Therapy for Calcific Coronary Stenosis<br>Day Care Total Hip Replacement                          |
| Apollo Hospitals, Chennai                  | Intravascular Lithotripsy, Rotashock or Lithotripsy and Robotic-Assisted Coronary Angioplasty with Intravascular Lithotripsy |
| Indraprastha Apollo Hospitals, Delhi       | CT Lung Densitometry   |
| Apollo Gleneagles Hospital, Kolkata        | Venaseal: The Treatment of Varicose Veins  |
| Quality Management and Patient Safety      |  |
| Winner                                     | Projects   |
| Apollo Hospitals, Ahmedabad                | Project: Patient Safety through- Medication Tracer Initiative  |
| Special Recognitions                       |  |
| Apollo Hospitals, Chennai                  | Intra-Target MRDO: Reclining Lost Territory  |
| Apollo Cancer Institute, Teynampet         | “The Confidence Booster – Innovative Surgical Attire”<br>- Mobilization made Unchallenging                                   |
| Apollo Hospitals, Jubilee Hills, Hyderabad | HAI Surveillance   |
| Apollo Hospitals, Karaikudi                | Zero is Hero   |
| Apollo Health and Lifestyle                | Apollo Q4E App: Achieving Excellence in Quality through Technology   |
| Apollo Hospitals, Ahmedabad                | A Study on Effectiveness of Free Flap Monitoring amongst Commando Surgery Patients in Surgical Oncology Wards                |



| Operations                           |  |
|--------------------------------------|--|
| Winner                               | Projects   |
| Apollo Tele Health Services          | Jharkhand Digital Dispensary   |
| Special Recognitions                 |  |
| Apollo Speciality Hospitals, Madurai | From Zero to Hero – how we set the Molecular Lab from Scratch  |
| Apollo Corporate                     | Paperless Registration and Billing - Apollo Way<br>Re-inventing the Patient Experience in a post Covid World |
| Financial Management                 |  |
| Winner                               | Projects   |
| Apollo Cancer Institute, Teynampet   | Save the Rain- Don't let it Go Down the Drain  |
| Special Recognitions                 |  |
| Apollo Speciality Hospitals, Madurai | All is Well with RTPCR   |
| Environmental Conservation           |  |
| Winner                               | Projects   |
| Apollo Hospitals, Chennai            | Digital Radiology: The Imaging World at your Finger Tips   |
| Special Recognitions                 |  |
| Apollo Hospitals, Chennai            | E-conserve: Connect to Deduct  |
| HR Practices                         |  |
| Winner                               | Projects   |
| Indraprastha Apollo Hospitals, Delhi | We Care for our Warriors   |
| Special Recognitions                 |  |
| Apollo Speciality Hospitals, Madurai | Care for Warriors and Cure for Covid   |
| Community Service                    |  |
| Winner                               | Projects   |
| Apollo Medics Hospital Lucknow       | COVID Hospital in 5 days   |
| Special Recognitions                 |  |
| Apollo Tele Health Services          | Remote COVID-19 Management   |



Presentation of Apollo Innovation and Quality Awards 2020 to the winning centres during Founder's Day Celebrations on 5th February 2021

## Apollo Clinical Awards 2020

Apollo Clinical Awards is a platform that honours and recognizes Consultants who have achieved path breaking clinical, academic and research related success.

Nominations for the Apollo Clinical Awards 2020 were invited from Consultants from all locations in the following six categories:

- Distinguished Clinician

- Distinguished Academician
- Distinguished Researcher
- Young Clinician Achiever
- Young Academic Achiever
- Young Researcher

Ninety-one nominations were received.

The nominations were judged by an esteemed panel.

The winners in each category were:

### Distinguished Clinician

Dr Madan Mohan Reddy, Chief Consultant, Orthopedic, Apollo Hospitals, Chennai

Dr Rooma Sinha, Senior Consultant, Gynaecology, Laparoscopic and Robotic Surgery, Apollo Hospitals, Hyderabad

### Distinguished Academician

Dr Bindu Menon, Senior Consultant, Neurology, Apollo Hospitals, Nellore

Dr Koushik Lahiri, Senior Consultant, Dermatology, Apollo Gleneagles Hospitals, Kolkata

### Distinguished Researcher

Dr Pushpendra Nath Renjen, Senior Consultant, Neurology, Indraprastha Apollo Hospitals, Delhi

Dr Venkatesh T K, Senior Consultant, Cardiology, Apollo Hospitals, Bangalore

### Young Clinician

Dr Vimee Bindra, Consultant, Obstetrics and Gynaecology, Apollo Hospitals, Hyderabad

Dr Shyam Duvuru, Consultant, Neurosurgery, Apollo Hospitals, Madurai

Dr Anand Murugesan, Senior Consultant, Interventional pain Management, Apollo Hospitals, Chennai

Dr Devachandran Jayakumar, Senior Consultant, Critical Care, Apollo Hospitals, OMR

### Young Academician

Dr Srinivas Chilukuri, Senior Consultant, Radiation Oncology, Apollo Proton Cancer Centre, Chennai

Dr Akshat Pandey, Consultant, Rheumatology, Apollo Hospitals, Indore

### Young Researcher

Dr Bharath Kumar T V, Consultant, Critical care, Apollo Hospitals, Chennai

Dr Aruna R Patil, Consultant, Radiology, Apollo BGS Hospitals, Bangalore





Presentation of Apollo Clinical Awards 2020 to the winning Consultants during Founder's Day Celebrations on 5th February 2021

## Share Your Story

It is important to share best practices and innovations amongst the hospitals within the Group for continuous improvement and further enrichment. The "Share Your Story" initiative was conceptualized with a view to share best practices amongst all the units of Apollo Hospitals on one chosen topic, every quarter. The topics for the quarters in 2020 and respective winners were:

Managing patient flow during COVID-19- issues faced and strategies implemented

**Winner: Apollo Hospitals, Chennai**

Strategies Implemented for Preventing Food Allergies in Patients

**Winner: Indraprastha Apollo Hospitals, Delhi**

Communication for Critical Test Results- Strategies Implemented

**Winner: Apollo Speciality Hospital, OMR**

## Join Commission International (JCI) Accredited Apollo Hospitals

The following eight Apollo Hospitals are JCI Accredited:

| S. No. | Hospital                                 | Last JCI Accreditation | Next JCI Accreditation |
|--------|--|------------------------|------------------------|
| 1.     | Indraprastha Apollo Hospitals, New Delhi | 2020                   | 2023                   |
| 2.     | Apollo Hospitals, Hyderabad              | 2018                   | 2021                   |
| 3.     | Apollo Hospitals, Chennai                | 2020                   | 2023                   |
| 4.     | Apollo Hospitals, Bangalore              | 2020                   | 2023                   |
| 5.     | Apollo Hospitals, Kolkata                | 2018                   | 2021                   |
| 6.     | Apollo Hospitals, Ahmedabad              | 2019                   | 2022                   |
| 7.     | Apollo Hospitals, Navi Mumbai            | 2020                   | 2023                   |
| 8.     | Apollo Proton Cancer Centre              | 2020                   | 2023                   |

## National Accreditation Boards for Hospitals and Healthcare Providers (NABH) Accredited Apollo Hospitals

The following 32 Apollo Hospitals are NABH Accredited:

| Hospital  | Last NABH Accreditation | Next NABH Accreditation |
|---|-------------------------|-------------------------|
| Apollo Hospitals, Bilaspur  | 2019                    | 2022                    |
| Apollo Speciality Hospitals, Madurai                                  | 2019                    | 2022                    |
| Apollo BGS Hospitals, Mysore  | 2019                    | 2022                    |
| Apollo Jehangir Hospital, Pune  | 2019                    | 2022                    |
| Apollo Hospitals, Bhubaneswar   | 2019                    | 2022                    |
| Apollo Hospitals, Secunderabad  | 2020                    | 2023                    |
| Apollo Hospitals, Hyderguda   | 2020                    | 2023                    |
| Apollo Specialty Hospitals, Vanagaram                                 | 2018                    | 2021                    |
| Apollo Hospitals, Kakinada  | 2018                    | 2021                    |
| Apollo Hospitals, Noida   | 2020                    | 2023                    |
| Apollo Specialty Cancer Hospital, Teynampet                           | 2019                    | 2022                    |
| Apollo Hospitals, Trichy  | 2018                    | 2021                    |
| Apollo Hospitals, Indore  | 2020                    | 2023                    |
| Apollo Hospitals, Nashik  | 2019                    | 2022                    |
| Apollo Hospitals, Seshadripuram                                       | 2018                    | 2021                    |
| Apollo KH Hospitals, Ranipet  | 2018                    | 2021                    |
| Apollo Speciality Hospitals, OMR                                      | 2018                    | 2021                    |
| Apollo Children's Hospital, Chennai                                   | 2018                    | 2021                    |
| Apollo Hospitals, Vizag   | 2018                    | 2021                    |
| Apollo Hospitals, Jayanagar   | 2020                    | 2023                    |
| Apollo Hospitals, Guwahati  | 2018                    | 2021                    |
| Apollo Hospitals, Karaikudi   | 2019                    | 2022                    |
| Apollo Speciality Hospitals, Nellore                                  | 2019                    | 2022                    |
| Apollomedics Super Speciality Hospitals, Lucknow                      | 2020                    | 2023                    |
| Apollo Women's Hospitals, Chennai                                     | 2019                    | 2022                    |
| Apollo Hospitals, Karimnagar  | 2019                    | 2022                    |
| Apollo Hospitals, DRDO  | 2020                    | 2023                    |
| Apollo CVHF Heart Institute, Ahmedabad                                | 2020                    | 2023                    |
| Apollo Speciality Hospital, Bangalore                                 | 2020                    | 2023                    |
| Apollo Hospitals, Tondiarpet  | 2018                    | 2021                    |
| Apollo Adlux Hospitals, Kochi   | 2020                    | 2023                    |
| Apollo Institute of Medical Sciences and Research Hospital, Hyderabad | 2020                    | 2023                    |

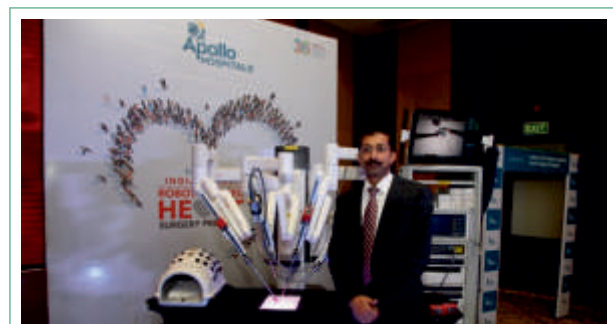


## New Launches

### India's first Robot – Assisted Cardiac Surgery Unit

Apollo Hospitals, Bangalore, officially launched the first dedicated Robot-Assisted Cardiac Surgery Unit in India, a milestone in the history of cardiovascular surgery in the country. This unit is equipped with the advanced fourth-generation versatile 'Da Vinci Xi' robotic surgical system and a dedicated team.

Robotic Cardiac Surgery offers greater precision through improved dexterity, tremor-free movements and superior vision. Also, provides flexibility and tremendous control to surgeon which translates into enhanced safety and better outcomes for patients.



Launch of first dedicated Robot-Assisted Cardiac Surgery Unit in India at the Apollo Hospitals, Bangalore

### South Asia's Advanced Spine Surgery Institute

The Exelsius GPS Spine Surgery Robot, the most advanced 3rd generation spine robot was launched in Chennai at the Apollo Institute of Spine surgery. The

institute was launched by Honorable Health Minister of Tamil Nadu in the presence of Dr. Prathap C Reddy, Founder and Chairman, Apollo Hospitals Group and Dr. Preetha Reddy, Vice Chairperson of Apollo Hospitals Group.

The Apollo Institute of Spine Surgery offers specialized spine services and 360-degree care from the most advanced robotic system called the "Exelsius GPS Spine Surgery Robot" for complex spine surgeries. This advanced treatment reduces instances of infections, implant inaccuracies, revision surgeries, radiation exposures, and patient's length of stay at the facility.



Dr Pratap C Reddy, Chairmen, Apollo Hospitals at the launch of South Asia's Advanced Spine Surgery Institute

## Apollo Hospitals Group launches 'Post-Covid Recovery Clinics'

The Apollo Hospitals Group has launched Post-COVID Recovery Clinics across the hospital network. The Post-COVID Recovery Clinics aim to address the rising number of patients who have recovered from COVID-19 but are suffering from the mid and long term persistent effects of the infection. Over 50% of COVID-19 patients suffer from problems that include breathlessness, chest pain and heart issues, joint pains, vision problems, and memory loss months after contracting the novel coronavirus. The Post-COVID Recovery Clinics are manned by a team of specialists including Neurologists and Immunologists to help patients deal with the aftermath of COVID-19 and restore them to health.



Launch of Post-Covid Recovery Clinics

## New in Medicine

'New in Medicine' is compiled under the following five heads after studying leading medical journals, major medical news sites and numerous web sites:

- Drugs
- Clinical Research
- Devices
- Treatment Guidelines
- Healthcare Administration

'New in Medicine' is published monthly and circulated to all Apollo Hospitals consultants.

One hundred and four issues have been published till December 2020. It is also sent to the Community Physicians.

## New and Rare Treatments/Interesting Cases

### Apollo Hospitals, Ahmedabad

- Successful surgical management of a 29-year-old primi-gravida with intra-mural fibroids during C-section. The fibroids size measured 18 cm and 10 cm at 37 weeks of pregnancy.

### Apollo Children's Hospital, Chennai

- A 6-month old female child from Oman with absent food pipe (esophagus) was successfully operated. The stomach was converted into a food pipe, routed inside the chest behind the heart and lungs.

### Apollo Proton Cancer Centre, Chennai

- Nine patients successfully underwent cerebral re-vascularisation. Four patients underwent carotid endarterectomy. The other five that included an 8-year-old pediatric patient, underwent STA-MCA bypass.

## Apollo Hospitals, Bangalore

- Total Arterial Minimally Invasive CABG, (LIMA to LAD and LIMA - Radial Y to OM) immediately followed by Valve in Valve TAVR (Trans-catheter Aortic Valve Replacement) procedure was successfully performed in a 72-year-old male patient, suffering from exertional breathlessness and chest pain. This unique hybrid cardiac procedure was performed for the first time in the country.



*Hybrid cardiac procedure was successfully performed*

- Trans-catheter tricuspid valve- in-valve replacement (without open heart surgery) was carried out successfully in a 70-year-old female patient who presented with features of worsening chronic congestive heart failure.



*Trans-catheter tricuspid valve- in-valve replacement was successfully performed*

- Angio-embolisation of the vertebral artery, a unique adaption technique successfully performed at Apollo Hospitals, Bangalore, helped to save the life of a 15-year-old boy. The patient presented to the hospital with a stab injury at the left side of his neck along with an injury in the left forearm and nape of the neck. He had lost about two litres of blood at the accident spot.

- Arthroscopic anatomical Anterior Cruciate Ligament (ACL) reconstruction surgery was successfully performed to restore the knee functions of a 27-year-old professional biker who had met with an accident.
- A complex procedure, fenestrated EVAR (Endo Vascular Aortic Repair) was successfully performed for a 76-year-old male patient diagnosed with abdominal aortic aneurysm (AAA).
- A rare liver auto-transplant was successfully performed on a 46-year old female patient who was diagnosed with malignant tumor in her liver.

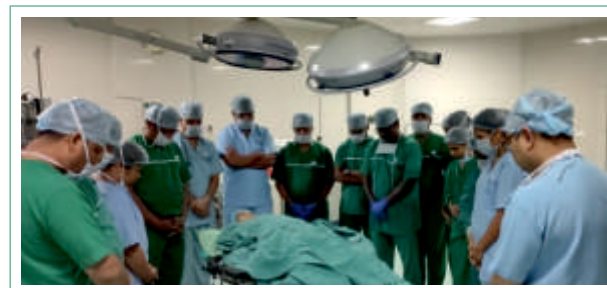


*Liver auto-transplant was successfully performed*

- A tailored cytoreductive surgery with minimally invasive robotic assisted HIPEC procedure was successfully performed for a patient diagnosed with a large obstructive sigmoid tumor, pelvic peritoneal metastasis and large tubo-ovarian mass.

## Apollo Hospitals, Bhubaneshwar

- First deceased-donor renal transplant was successfully performed in the state of Odisha. One kidney was transplanted in a 45-year-old patient at Apollo Hospitals while the other organ was sent to the state medical college.



*Deceased-donor renal transplant was successfully performed*



- A 19-year old female patient, with a rare diagnosis, Ohvira Syndrome (Obstructed Hemivagina with Ipsilateral Renal anomaly), successfully underwent a complicated corrective surgery. Ohvira Syndrome is an extremely rare condition found in 1 out of every 10 lakh females. This was the first ever case performed in the state of Odisha.



*Ohvira syndrome was successfully operated*

- Stereotactic Radio Surgery (SRS) was successfully performed on a patient diagnosed with a rare tumor-Glomus Jugulare.

### Apollo Hospitals, Bilaspur

- A first of its kind surgery in the state was successfully performed on a five and half months old, COVID-19 positive infant, a case of intussusception.

### Apollo Hospitals, Chennai

- A minimally invasive double curve correction spine surgery was successfully performed on a 13-year-old-female patient using the revolutionary non-fusion anterior scoliosis correction technique. The patient was affected by adolescent idiopathic scoliosis, an abnormal sideward curvature of the spine.



*Minimally invasive double curve correction spine surgery was successfully performed*

- Two robotic assisted angioplasties were successfully performed on a single day. The first patient was a 73-year-old male patient with critical two vessel disease who underwent robotic assisted PTCA to RCA with three stents and LAD with one stent. The second patient was a 52-year-old male with stent restenosis in LAD and underwent robotic assisted PTCA to LAD with one stent.
- Live transmission of the 'valve in valve' TMVR procedure was successfully performed for the India Live 2020 Conference at Delhi. The patient, a 41-year-old had already undergone two failed open heart surgeries prior to this procedure. India made MYVAL was used for the patient. The procedure was highly challenging as the septum was very thick along with a tight mitral stenosis.
- One-step minced cartilage procedure was successfully performed on a 69-year-old American female patient who was affected with Grade 3 Osteoarthritis (Knee Joint).



*One-step minced cartilage procedure was successfully done*

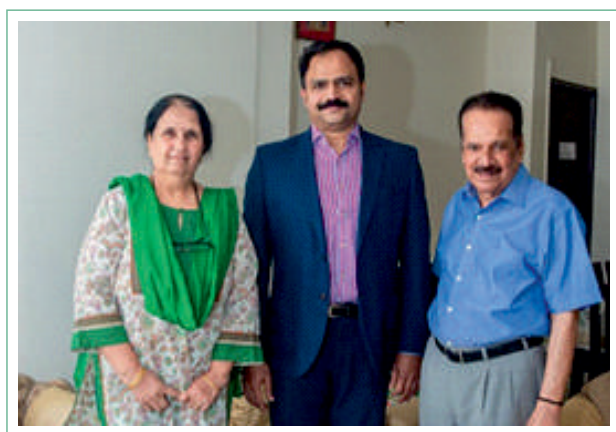
- Asia's first combined bowel and (sentinel) abdominal wall transplant surgery was successfully performed on a 17-year-old male patient suffering from Ultra Short Bowel Syndrome.
- Performed a complex kidney transplant procedure on a 35-year-old female patient who was on dialysis for End Stage Renal Disease (ESRD), using

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
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Hypothermic Oxygenated Machine Perfusion (HOPE). Apollo Hospitals brought the organ preservation device Vita Smart HOPE to India that keeps the kidney outside the body for a longer period of time with continuous oxygen supply.

Both organs, mentioned for the above two cases were harvested from the same 18-year-old brain dead donor.

- An 85-year-old male patient with a complex coronary artery disease underwent a successful robotic-assisted minimally invasive CABG



*Robotic-assisted minimally invasive CABG was successfully performed*

- Successfully performed the world's first largest artificial pulmonary valve (32mm) implantation, without surgery, on a 61-year-old female patient, diagnosed with severe valve leak.



*Robotic-assisted minimally invasive CABG was successfully performed*

- A 7-year-old female child successfully underwent arthroscopic lateral discoid meniscus saucerization and repair through keyhole procedure. She was diagnosed with an abnormal condition called discoid lateral meniscal tear on the knee.



*Arthroscopic lateral discoid meniscus saucerization and repair through keyhole procedure, was successfully performed*

## Indraprastha Apollo Hospitals, Delhi

- A 14-year-old boy diagnosed with lymphoma of the eye was successfully treated. Multi-disciplinary care was provided encompassing chemotherapy, immuno-therapy and radiation therapy.
- Bentall's procedure was successfully performed in a 75-year old female patient from Kenya, diagnosed with aortic dissection Type A, severe aortic regurgitation, EF of 25%, significant pulmonary hypertension, mitral and tricuspid regurgitation.
- Doctors at Indraprastha Apollo Hospitals, Delhi successfully removed 7 cm knife from a 19-year-old teenagers' chest.
- Doctors at Indraprastha Apollo Hospitals, Delhi successfully performed a highly complicated 'retrosternal hemi thyroidectomy surgery', to successfully remove a 1 kg tumour from the chest of a 70-year-old female patient from Afghanistan.
- A 10-month old baby from Malaysia, suffering from biliary atresia, successfully underwent liver transplant. The baby had developed jaundice a few days after birth, which progressively increased and led to liver failure. The baby underwent the procedure after the uneventful completion of the quarantine period, with her family. During the quarantine period with her family, the baby

developed a rhythm disturbance with a very slow heart rate, which necessitated implanting a temporary pacemaker. Once her condition was stabilized, the transplant was carried out.



*Liver transplant for 10 month baby was successfully performed*

- Microscopic excision surgery was successfully performed for a 19-year-old patient who was diagnosed with a rare neurological abnormality called hypothalamic glioma. The patient presented with recurrent episodes of loss of consciousness and constipation.



*Microscopic excision surgery was successfully performed*

- A 28-year-old lady, diagnosed with Covid-19, gave birth to a healthy girl at the Indraprastha Apollo Hospitals, Delhi and the new-born tested negative for the infection. The lady tested positive after compulsory preliminary tests, and was denied admission in several hospitals and was brought to the Indraprastha Apollo Hospitals in a critical condition.
- A 72-year-old female patient, a known case of diabetes, hypertension and carcinoma breast and

diagnosed with acute antero-septal MI with ventricular septal rupture with cardiogenic shock and on inotropic support when brought for admission, was successfully managed. She underwent surgical repair of VSR and CABG and was discharged in a stable condition.

- A 41-year-old woman suffering from a rare schwannoma measuring around 3.8cm, in the neck (parapharyngeal space tumor) was successfully treated with robot-assisted surgery.
- A 62- year old female diabetic patient who had sustained a severe triad injury of the elbow around 8 months back, successfully underwent a Total Elbow Replacement after optimization. This was a unique case as there is no reported literature for a successful total elbow replacement for a chronic neglected elbow dislocation with multiple fractures and ligament injuries.
- Successful management of a 27-year old COVID-19 patient with only one lung. The patient had lost one lung to cancer in the past. The remaining lung was infected due to COVID.
- A 55-year-old male patient was successfully treated for post-covid acute haemorrhagic leukoencephalitis. His other co- morbidities included diabetes and hypertension. The patient was brought by air ambulance from Jammu to Delhi.



*Post-covid acute haemorrhagic leukoencephalitis was successfully treated*



- Successful management of a 6-month old infant from Iraq, a case of complex cyanotic heart disease with a diagnosis of transposition of great arteries with regressed left ventricle and intact inter ventricular septum with an LV mass of 10gm/m<sup>2</sup>.
- Four infants between six months to one year from Philippines underwent Liver transplant at Indraprastha Apollo Hospitals, Delhi.



*Liver transplant was successfully for four*

## Apollo Hospitals, Guwahati

- Successful treatment and management of a 45-year-old male patient diagnosed with ascending aortic aneurysm with aortic root dilatation with exertional palpitations and dyspnea. The patient had Marfanoid features.
- A cardiac Tumor was successfully removed in an elderly female patient through Minimally Invasive Cardiac Surgery (MICS). The procedure was done for the first time in North-East India.
- Craniotomy on an 18-year old male patient was successfully performed for gross total excision of the tumor with size approximately 2 cm diameter.
- Neuro navigation guided awake craniotomy was successfully performed for a 25-year old patient diagnosed with seizure secondary to a posterior frontal brain tumor.
- Total gastrectomy with construction of a neo stomach by a jejunal pouch (Hunt-Lawrence pouch) was successfully performed for a 32-year

old patient diagnosed with corrosive stricture of the stomach.

- A middle aged female patient with chronic raised intra-cranial pressure due to large sphenoid wing meningioma was successfully managed. She was optimized rapidly through endovascular angio embolisation of the tumor at the cath lab followed by pterional skull based craniotomy with gross total excision of the tumor.

## Apollo Hospitals, Hyderabad

- Living donor liver transplantation and CABG were performed successfully on a 67 year old male patient in a single sitting spanning over 14 hours. The patient was suffering from cirrhosis and liver cancer. During evaluation for liver transplant he was found to have significant coronary artery disease critical blocks.



*Living donor liver transplantation and CABG were successfully performed*

- TAVR procedure was successfully performed for an 86-year old female patient suffering from breathlessness and cough.
- Heart Transplant was successfully performed in a 47-year old patient.
- A Uniportal VATS (video assisted thoracoscopic surgery) was successfully performed for a 27-year-old female with a giant bulla of the lung who had presented with a month long condition of dyspnea on exertion.

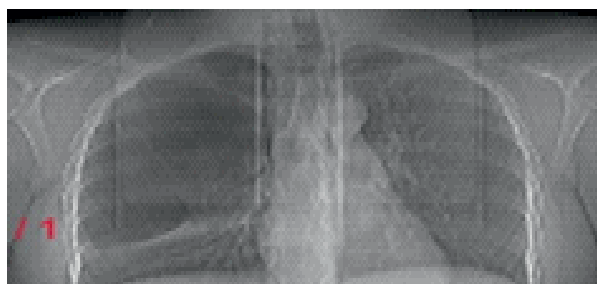


Fig 1-Pre operative chest

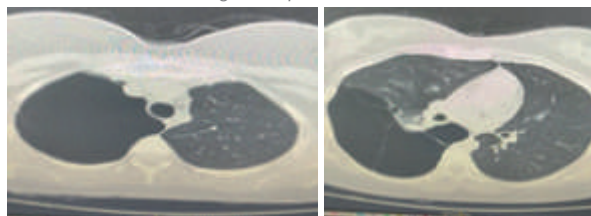


Fig 2A and 2B-Pre operative Chest CT

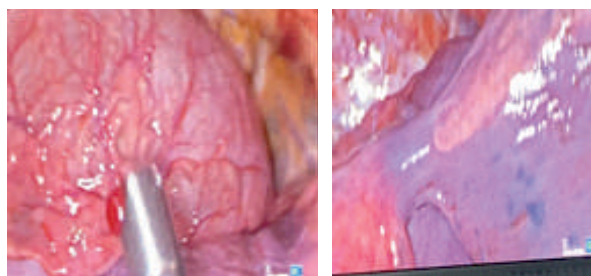


Fig 3A-Large bulla with adhesions to the chest wall

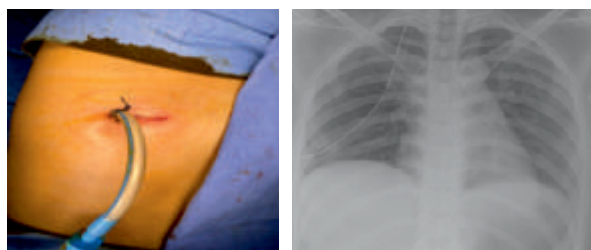
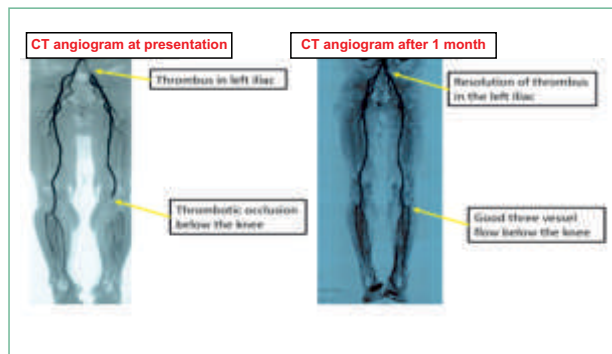


Fig 4-Post operative wound

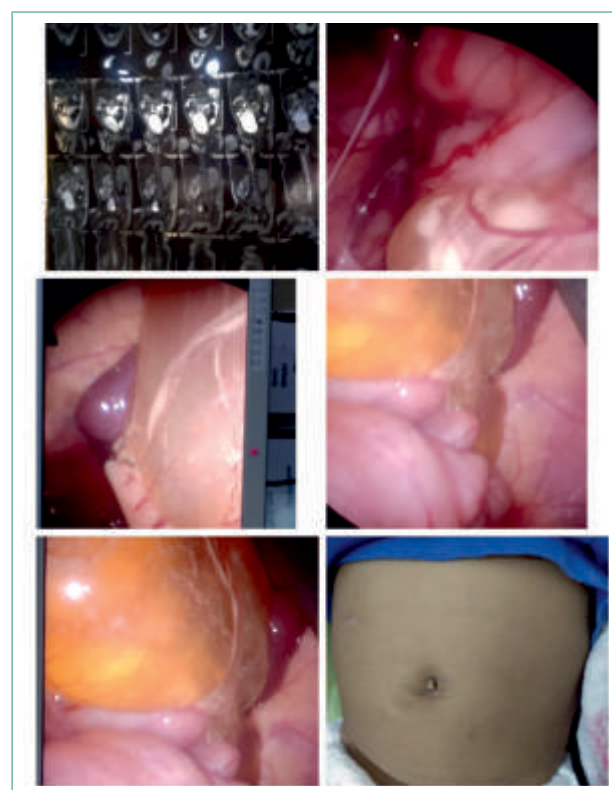


Fig 5-Post Operative Chest X ray

- A 100 year old physician, suffering from fever, cough, shortness of breath with Covid-19 positive status, and having diabetes, hypertension, acute kidney injury was successfully managed at Apollo Hospitals, Hyderabad.
- Limb salvage surgery using 'penumbra mechanical thrombectomy' was successfully performed for a 43-year-old who presented with left leg pain, left lower limb arterial thrombosis and COVID-19 positive status.



- Laparoscopic surgery was successfully performed on an 8-month old infant to remove a large intra-abdominal cyst measuring 45x18x139 cm and extending upto the pelvis.



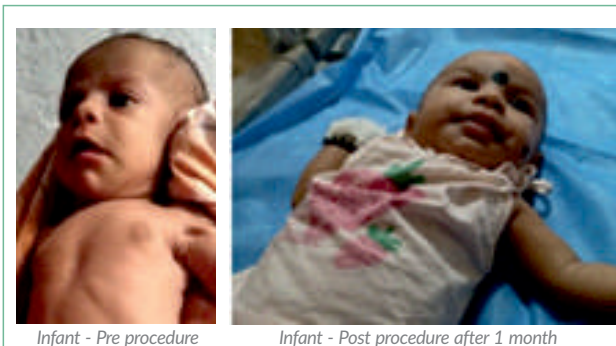
Laparoscopic surgery for large intra-abdominal cyst was successfully performed

- Daycare Total Knee Replacement Surgery was successfully performed for a 53-year old female patient.



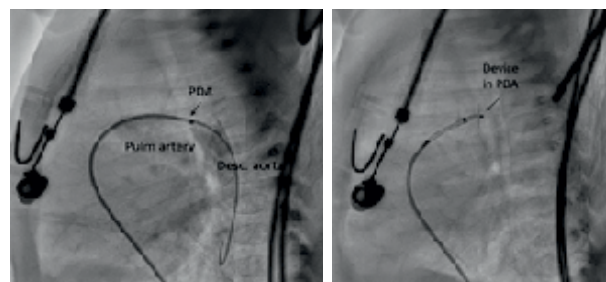
Daycare Total Knee Replacement Surgery was successfully performed

- Three renal transplants, from cadaveric donors were successfully performed within 12 hours. This was the first such feat in the state.
- A two-month old infant, weighing 2.2 Kg successfully underwent trans catheter device closure of patent ductus arteriosus. The infant was diagnosed with hemodynamically significant PDA causing heart failure.



Infant - Pre procedure

Infant - Post procedure after 1 month



Pic 1: Showing PDA Picture

Pic 2: Showing PDA device in place

- TAVR was successfully performed for an 83-year old patient. The patient was recovering from COVID and was also diagnosed with hypertension, CAD, COPD and aortic valve disease.

### Apollo Hospitals, Hyderguda

- Transfemoral Aortic Valve Replacement was successfully performed for a 68-year old male patient with congenital bicuspid aortic valve with calcification and tortuosity of the arch of aorta.



Transfemoral Aortic Valve Replacement was successfully performed

### Apollo Hospitals, Indore

- Permanent pacemaker implantation was successfully performed in a 2-day old infant weighing 2 Kg. The neonate was suffering from a congenital heart block.



Permanent pacemaker implantation was successfully performed in a 2-day infant



- Intracoronary Lithotripsy was successfully performed for the first time in the city.
- RS3PE (Remitting Seronegative Symmetrical Synovitis with Pitting Edema), a challenging case was successfully diagnosed and managed in an adolescent female.
- Successful diagnosis and management of sporadic duodenal gastrinoma was done in a 55-year-old male patient.
- Pin-hole heart valve replacement using Trans Aortic Valve Replacement (TAVR) was successfully performed in a 93-year-old male patient.



*Pin-hole heart valve replacement using Trans Aortic Valve Replacement (TAVR) was successfully performed*

- Central India's first and the country's second Renal Denervation Therapy was successfully performed for a 56-year-old male patient having resistant hypertension since the last 11 years. His blood pressure was not under control in spite of maximal doses and he also suffered from CVA. Special permission for this therapy was obtained from DGCI.



*Renal Denervation Therapy was successfully performed*

## Apollo Hospitals, Karimnagar

- EPS/ablation procedure was successfully performed for a 64-year-old male patient with recurrent episodes of rapid palpitations, severe weakness and blackouts. This was the first EPS/ablation procedure performed in the state of Telangana.



*Renal Denervation Therapy was successfully performed*

## Apollo Gleneagles Hospitals, Kolkata

- Apollo Hospitals successfully performed Coronary Intravascular Lithotripsy or Coronary Shockwave Lithotripsy and Optical Coherence Tomography, an advanced imaging technique where sound waves were used to break down stubborn calcium deposits in the coronary artery in a 76-year-old patient. The patient had undergone a coronary bypass surgery two years ago but fell ill again recently when hardened deposits formed in his heart arteries again. This procedure was performed for the first time in eastern India.



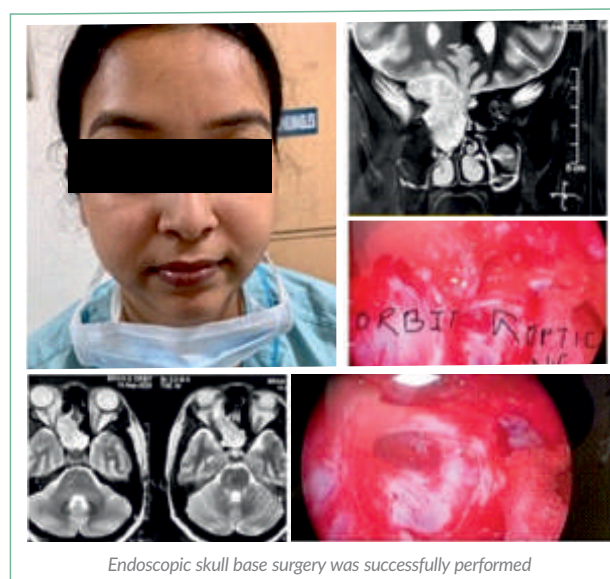
*Coronary Shockwave Lithotripsy and Optical Coherence Tomography was successfully performed*

- Robot-assisted right radical nephrectomy was successfully performed for a 90-year-old male patient. The patient was admitted with complaints of hematuria and CECT KUB suggestive of right kidney SOL. This procedure was performed for the first time in eastern India.
- A rare type of and recurrent CSF Rhinorrhoea was successfully managed for a 45- year old female patient who presented with left sided CSF rhinorrhea.
- A 48-year old patient with repeated episodes of cardiac arrest and complete heart block was successfully managed. A temporary pacemaker procedure was urgently performed in the emergency room to resuscitate the patient. A permanent pacemaker procedure was performed after the RT-PCR test came out negative. The patient was thereafter discharged.
- A 68-year-old patient suffering from oral cancer, with a history of gall bladder cancer, coronary bypass surgery and high blood sugar, was successfully treated for COVID 19 infection. The patient was admitted to the isolation ward and treated for COVID 19 for two weeks. Post discharge he was advised quarantine and thereafter resumption of his cancer treatment.
- A 61-year old female patient, suffering from facial cancer, successfully underwent a challenging 12-hour long surgery, the anterior segmental mandibulectomy (surgery to remove cancer of the central portion of the lower jaw) and replacement of the bone with the patient's own fibula.



Anterior Segmental Mandibulectomy was successfully performed

- A one-month old baby diagnosed with Aspergillus Infective Endocarditis was successfully treated through surgery. The baby was also successfully managed for late onset sepsis and meningitis, left sided obstetric brachial plexus palsy with left Horner's syndrome
- A complex endoscopic skull base surgery was successfully performed to restore vision in a near blind young female patient suffering from an extremely rare tumor of the sino-nasal cavity - Aggressive Angiomyxoma, compressing on optic nerve orbit with extension to the brain.



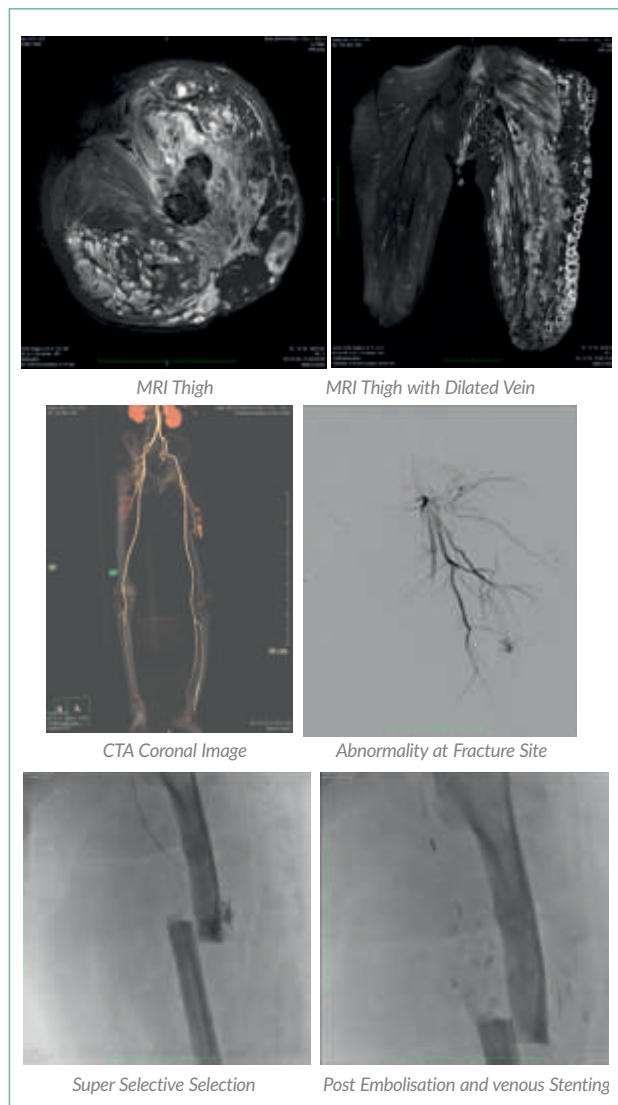
- Breast and cancer risk reduction surgeries were performed for the first time in eastern India on a 37-year-old patient.



Breast and cancer risk reduction surgery was successfully performed



- A minimal intervention, external fixator procedure was successfully performed for a 54-year male patient with congenital slow venous malformation of the left lower limb.



### ApolloMedics Hospitals, Lucknow

- A complex neuro surgery was successfully performed on a 3-day-old neonate. The baby was suffering with occipital encephalocele, herniation of occipital lobe with obliteration of right transverse sinus and split cord malformation with D8/9 level bony septum between two hemicords.

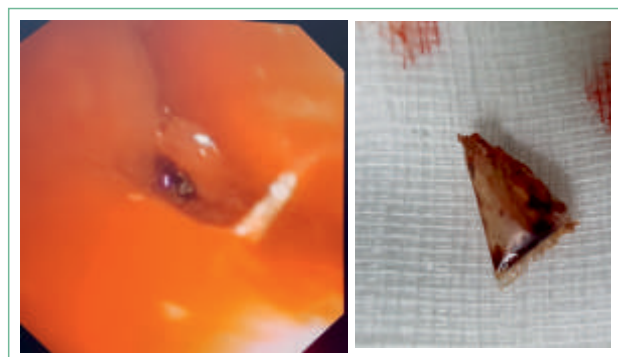
The baby was discharged without any postoperative neurological deficit.

- A 75-year-old male patient who presented with ascending spastic quadriparesis with respiratory and bladder bowel involvement with mal-united odontoid fracture with severe cord compression at cranio vertebral junction, was successfully managed. The procedure, trans-oral anterior microscopic odontoid excision and posterior decompression and fusion, was performed for the patient without any complications. There was significant neurological recovery post-operatively. The patient was discharged on the 5th post-operative day.
- A difficult diagnosis of suprasellar and intra-ventricular craniopharyngioma with hydrocephalus, in a 7-year-old male child was successfully managed. The patient presented with severe headache, vomiting and blurred vision and growth retardation. Endoscopic burr hole excision was performed with no deficits postoperatively. Hydrocephalus was relieved and no Diabetes Insipidus occurred. The patient was discharged after 3 days.
- An 80-year old male patient with acute onset pneumo-mediastinum and pneumothorax, diagnosed as Boerhaave Syndrome, was successfully managed.

### Apollo Hospitals, Madurai

- Epilepsy surgery was successfully performed for 2 children diagnosed with drug refractory focal epilepsy. One of them had focal cortical dysplasia, getting 100-200 seizures a day and other child had gliosis due to early perinatal insult with 10-15 seizures a day and repeated falls and injuries every day. This procedure was performed for the first time in the region.

- A 50-year-old female patient having persistent wheeze and recurrent pneumonia since the last 10 years was successfully managed through appropriate evaluation, resulting in therapeutic bronchoscopy with removal of the corner end of a milk packet.



Obstruction of right bronchus intermedius

Foreign body retrieved from her airway

- Deep brain stimulation (DBS) surgery was successfully performed for a young patient who was diagnosed with Parkinson's disease. This was the first deep brain stimulation (DBS) surgery in South Tamil Nadu.

## Apollo Hospitals, Nashik

- A challenging case of a 66-year-old male patient with 3 cm mass forming hilar cholangiocarcinoma, Bismuth Corlette type IV, with obstructive jaundice was successfully managed.
- Successful en bloc resection of a large ulcerated, pedunculated, jejunal leiomyoma through endoscopic mucosal resection technique was successfully performed without any complication, in a patient presenting with massive GI bleeding and hemorrhagic shock. The patient had other severe comorbidities like ischemic heart disease with cardiomyopathy, diabetes, hypertension and chronic kidney disease.

## Apollo Hospitals, Navi Mumbai

- A 78-year-old male patient, a known case of TVD with DM, HTN and IHD with 98% blockages, successfully underwent minimally invasive CABG.
- Critical care management was successfully performed for an 87-year-old female patient with left ventricular failure with acute exacerbation of COPD and encephalopathy. Patient became conscious, oriented and hemodynamically stable.
- Successful management of a 70-year-old male patient who presented with extreme dyspnea with desaturation (SPO2 - less than 85%), mild fever, anemia with neutropenia and thrombocytopenia. The patient was a known case of DM, CKD, HTN, was undergoing dialysis. The patient was admitted to the ICU and was on ventilator for 4 days. The blood culture showed MRSA, for which appropriate management was initiated. Later the patient started improving and was extubated as he became haemodynamically stable.
- A 45-year-old male patient, with complaints of fever, cough with dyspnea, history of Koch's underweight with compromised nutrition and COVID 19 positive was successfully managed. The patient was initially placed in isolation and thereafter shifted to the designated COVID area. All protocols for COVID 19 positive patients were followed. The patient was treated symptomatically without any invasive ventilation. After two successive negative tests for COVID 19, the patient was discharged from the hospital.
- Diagnosis and successful surgical management of a rare genetic disorder, Neonatal Severe Hypo Parathyroidism, in a 9-month old baby boy.
- An 80-year-old male patient suffering from diabetic foot and peripheral vascular disease was successfully managed. The patient had a history of stroke, epilepsy and comorbidities of diabetes and hypertension.

- Sphincter preservation with brachytherapy was successfully performed for an 83-year old male patient diagnosed with carcinoma of the anal canal.
- Deceased donor transplant successfully performed at Apollo Hospitals, Navi Mumbai, that gave a new lease of life to 4 patients. The donor was a 62-year old lady who died while being treated for intracranial hemorrhage.
- Successful surgical management of a 7-month old infant diagnosed with ASD, VSD with PDA. The baby was a known case of Down's syndrome and hypothyroidism.
- ASD device closure was successfully performed for a baby with weighing 8 kg

### Apollo Hospitals, Secunderabad

- Forearm re-implantation was successfully performed for a 19-year-old farmer who had presented with complete amputation of the right forearm. His right arm had been caught between crop cutting machines.



*Forearm re-implantation was successfully performed*

### Apollo Cancer Institute, Teynampet

- A 57-year old female patient was diagnosed with foramen magnum meningioma, a rare and a challenging case to operate. She underwent 'ventriculo-peritoneal shunt' followed by 'far lateral craniotomy and total excision of lesion under guidance of intra operative neuro-monitoring' and successfully discharged.

### Apollo Hospitals, Vanagaram

- Brain surgery was successfully performed for a 35-year-old male patient diagnosed with stroke. The patient was unable to use his left arm and leg, had symptoms of facial paralysis and vision loss as well. Post-surgery, he underwent neuro-rehabilitation and recovered well.



*Forearm re-implantation was successfully performed*

### Apollo Hospitals, Vizag

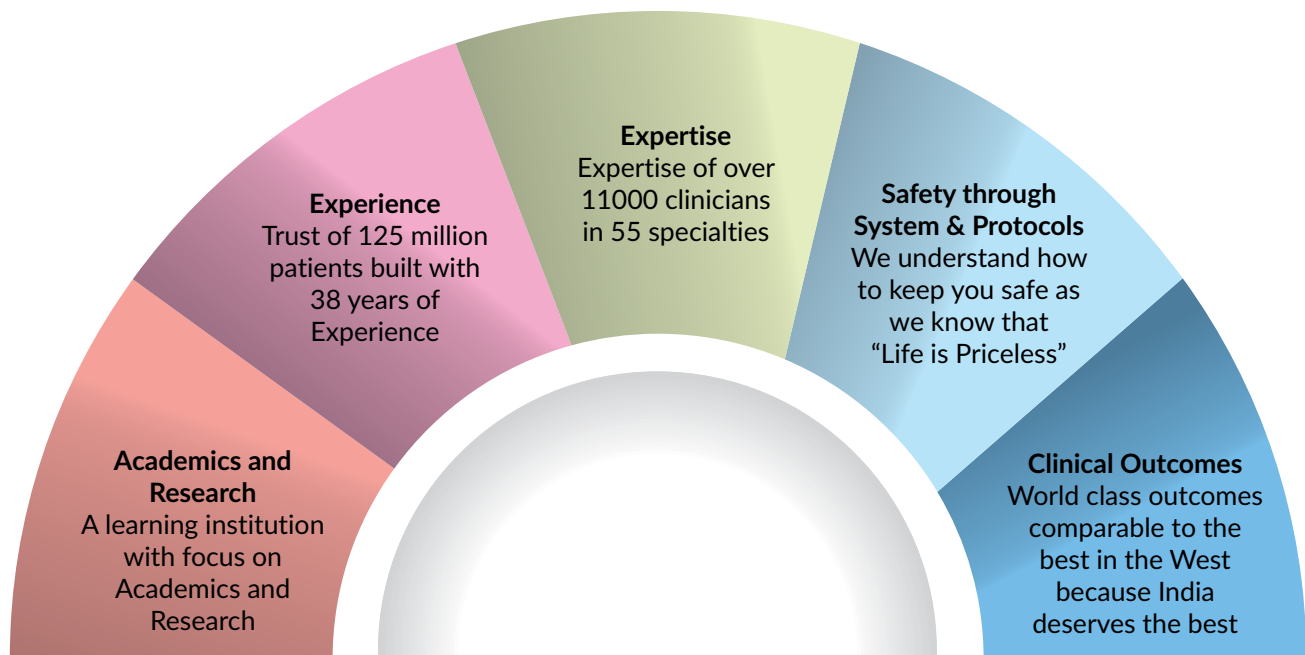
- A 38-year old male patient suffering from hepatolithiasis and recurrent pyogenic cholangitis, rare benign conditions affecting the liver, was successfully managed.
- Successful management of a 24-year-old male patient who met with a road traffic accident and sustained polytrauma with Grade III pancreatic injury, head injury with depressed skull fracture, scalp avulsion, pelvic bone injury and multiple full thickness skin lacerations over right flank and lower limbs.
- A tumour megaprosthesis revision fixation surgery was successfully performed in a patient who had presented with an implant failure.
- Successful management of a sick COVID-19 positive patient through ECMO. This procedure was performed for the first time in the region.
- Ulnar collateral ligament (UCL) repair by internal brace/ ligament augmentation was successfully performed for a 30-year-old male patient diagnosed with Golfers Elbow. This is the first surgery of its kind done in the state.

## Centers of Excellence (COEs)

Apollo Hospitals has dedicated Centers of Excellence (COEs) for several key specialties and super-specialties. These Centers of Excellence are unique in terms of their service spectrum and are spread across the various Apollo Hospitals locations:

- Cardiovascular Sciences
- Orthopedics
- Neurosciences
- Oncology
- Transplant
- Emergency

## Key differentiating factors for Centers of Excellence



## Center of Excellence - Cardiovascular Science



<https://www.crfi.org/clinical-trials-center/services/>

Apollo Hospitals is the leading institution for cardiovascular sciences in India, attracting patients across the globe for best in class outcomes, seamless service delivery at reasonable price points, when compared internationally.

The pioneering work for the prevention of cardiovascular diseases is now strengthened with risk scoring which is powered by artificial intelligence; so that patients are treated much before the advanced stage of disease progression.

Apollo Hospitals has third generation Cath Labs, Cardiac Critical Care Units and Intensive Care Units for support.

### Cardiac services are offered at 35 units:

|                                      |
|--------------------------------------|
| Apollo Hospitals, Ahmedabad          |
| Apollo Hospitals, Bangalore          |
| Apollo Hospitals, Bilaspur           |
| Apollo Hospitals, Bhubaneswar        |
| Apollo Hospitals, Chennai            |
| Indraprastha Apollo Hospitals, Delhi |
| Apollo Jubilee Hills, Hyderabad      |
| Apollo Gleneagles Hospitals, Kolkata |
| Apollo Hospitals, Madurai            |
| Apollo Hospitals, Navi Mumbai        |
| Apollo Hospitals, Vizag              |
| Apollo Hospitals, Secunderabad       |
| Apollo Reach Hospitals, Karimnagar   |

|                                      |
|--------------------------------------|
| Apollo Hospitals, OMR                |
| Apollo Hospitals, Kakinada           |
| Apollo Hospitals, DRDO               |
| Apollo First Med Hospital, Chennai   |
| Apollo Hospitals, Guwahati           |
| Apollo Hospitals, Nellore            |
| Apollo Hospitals, Karur              |
| Apollo BGS Hospitals, Mysore         |
| Apollo Hospitals, Indore             |
| Apollo Hospitals, Nashik             |
| Apollo Hospitals, Tondiarpet         |
| Apollo Cancer Institute, Teynampet   |
| Apollo Hospitals, Jayanagar          |
| Apollo Children's Hospitals, Chennai |
| Apollo Hospitals, Trichy             |
| Apollo Hospitals, Seshadripuram      |
| Apollo Hospitals, Vanagaram          |
| Apollo Hospitals, Hyderguda          |
| Apollo Jehangir Hospitals, Pune      |
| Apollo Hospitals, Noida              |
| Apollo Health City, Vizag            |
| Apollomedics Hospitals, Lucknow      |

### Existing Clinical Expertise-Cardiology

TAVI / TAVR

Mitral Clip

Complex Angioplasties

### Existing Clinical Expertise- Cardiac Surgery

MICAS

Heart Failure Assist Devices

Heart Transplant/Heart-Lung Transplant (En-bloc)

Robot Assisted Cardiac Surgeries

### Cardiology COE – Service Spectrum

- Adult cardiac surgery
- Arrhythmia surgery
- Cardiac device lead extraction



- Cardiac risk score assessment and tracking
- Catheter ablation
- Combined cardiac procedure
- Coronary angiography
- Cutting edge technology to aid in cardiac care
- Electrophysiology procedures for heart failure
- First biplane interventional cath lab suite- philips allura clarity 20/15
- IVUS
- Minimally invasive coronary artery surgery
- Neonatal cardiac surgery
- Pacemaker system
- Pediatric cardiac surgery
- Peripheral vascular surgery
- Renal denervation
- Stent less heart valve bioprosthesis
- 640 slice CT scan

## Academics and Research- Cardiology

| Academics and Research            | Number |
|-----------------------------------|--------|
| Adjunct Titles of Clinical Tutors | 12     |

|                               |
|-------------------------------|
| DNB seats                     |
| Cardiac Anaesthesia - 2       |
| Paediatric Cardiology -4      |
| Cardiology - 29               |
| Cardio Thoracic Surgery - 10  |
| Interventional Cardiology - 1 |

## Center of Excellence – Orthopedics



<https://www.docshop.com/education/orthopedic>

With a team of the best orthopedicians providing excellent treatment at Apollo Hospitals, the patients are assured of complete recovery from bone and joint problems. Orthopedic services at Apollo Hospitals have the latest cutting edge technology in terms of equipments, operating rooms, recovery areas and advanced physical therapy facilities. Dedicated and well equipped orthopedic surgery complexes with laminar flow and various modern equipment like image intensifiers, operating microscopes, computer navigation systems and top of the line arthroscopy systems form an integral part of this COE.

### Orthopedics services are offered at 39 units:

|                                      |
|--------------------------------------|
| Apollo Hospitals, Ahmedabad          |
| Apollo Hospitals, Bangalore          |
| Apollo Hospitals, Bilaspur           |
| Apollo Hospitals, Bhubaneswar        |
| Apollo Hospitals, Chennai            |
| Indraprastha Apollo Hospitals, Delhi |
| Apollo Jubilee Hospitals, Hyderabad  |
| Apollo Gleneagles Hospitals, Kolkata |
| Apollo Hospitals, Madurai            |
| Apollo Hospitals, Navi Mumbai        |
| Apollo Hospitals, Vizag              |
| Apollo Hospitals, Secunderabad       |
| Apollo Reach Hospitals, Karimnagar   |

|                                      |
|--------------------------------------|
| Apollo Hospitals, OMR                |
| Apollo Hospitals, Seshadripuram      |
| Apollo Hospitals, Kakinada           |
| Apollo Hospitals, DRDO               |
| Apollo First Med Hospitals, Chennai  |
| Apollo Hospitals, Karaikudi          |
| Apollo KH Hospitals, Ranipet         |
| Apollo Hospitals, Guwahati           |
| Apollo Hospitals, Aragonda           |
| Apollo Hospitals, Nellore            |
| Apollo BGS Hospitals, Mysore         |
| Apollo Hospitals, Karur              |
| Apollo Health city, Vizag            |
| Apollo Hospitals, Indore             |
| Apollo Hospitals, Ambawadi           |
| Apollo Hospitals, Nashik             |
| Apollo Hospitals, Tondiarpet         |
| Apollo Cancer Institute, Teynampet   |
| Apollo Hospitals, Jayanagar          |
| Apollo Hospitals, Hyderguda          |
| Apollo Jehangir Hospitals, Pune      |
| Apollo Hospitals, Noida              |
| Apollo Hospitals, Vanagaram          |
| Apollo Children's Hospitals, Chennai |
| Apollo Hospitals, Trichy             |
| Apollomedics Hospitals, Lucknow      |

|  |
|--|
| <b>Existing Clinical Expertise-Orthopedics</b>         |
| <b>Bilateral Minimally Invasive Knee Surgery</b>       |
| <b>3D Robotic knee replacement (Unicondylar)</b>       |
| <b>Cell Therapy</b>                                    |
| <b>Eazy- AIM - Electronic digital targeting system</b> |
| <b>Rehabilitation Centre - ApoKos</b>                  |
| <b>Renaissance Spine Robot</b>                         |
| <b>Joint Navigation</b>                                |
| <b>Robotic rehabilitation – Lokomat</b>                |
| <b>Point of care 3D Medical printing lab</b>           |

## Orthopaedics COE – Service Spectrum

- Articular cartilage implantation (ACI)
- Arthritis care
- Arthroscopic and reconstructive techniques
- Bilateral minimally invasive knee surgery and 3D robotic knee replacement
- Cartilage regeneration surgery, including micro fracturing, mosaic-plasty
- Comprehensive foot and ankle care
- Dedicated units for traumatology
- Fast track Total Knee Replacement
- Geriatric orthopaedic care
- Joint replacements including hip resurfacing and knee replacements (primary, complex primary and revision replacements)
- Modern sports medicine centres
- Minimally invasive knee replacement surgery (MIKRS)
- Orthopedic Oncology for treating bone cancers
- Physical therapy units to provide rehabilitation and pain management
- Regenerative medicine
- Robotic-guided techniques
- Shoulder surgeries and the most delicate hand micro surgeries
- Specialised pediatric orthopedics units offering the whole range of pediatric orthopedics
- Using a revolutionary combination of CT imaging/mapping, modelling software (virtual)

- 3D printing technology

## Academics and Research- Orthopedics

| Academics and Research            | Number |
|-----------------------------------|--------|
| Adjunct Titles of Clinical Tutors | 08     |
| DNB seats                         |        |
| Orthopedics - 40                  |        |

## Center of Excellence - Neurosciences



<https://www.srlawrencehealthsystem.org/>

The Apollo Institute of Neurosciences has revolutionized high-end neurological care in the country. The legacy of innovation and excellence is further augmented through the latest emergency services, neuro-intensive care facilities and neuro rehabilitation. The main goal is to work at the cutting-edge of neuro-imaging, neuro-intensive care and medical and radiation oncology services to deliver outcomes that match the leading neurology institutions in the world.

To elevate the level of stroke care, a highly skilled multidisciplinary neurosciences team has dedicated itself to enhancing patient care through cutting edge technology. Treatments of seizures or epilepsy as well as modern treatments for movement disorders like Parkinson's disease are further specializations under the functional neuro-surgical units. The Apollo Institute of Neurosciences has taken stroke management to the next level by standardizing stroke diagnosis and empowering clinicians with AI

technology to redefine stroke protocols across all the hospitals. AI for stroke will reduce the treatment time, to make faster, more accurate diagnosis and treatment decisions to improve clinical outcome for stroke patients. More than 1000 major neurosurgeries are being carried out every year.

Apollo Hospitals and Medtronics have partnered to build comprehensive stroke management that will lead to multiple patient benefits. This AI platform uses artificial intelligence to create high quality, advanced images from non-contrast CT, CT angiography, CT perfusion, MRI diffusion and perfusion scans. This facilitates hospitals to speed up time-critical triage or transfer decisions for better patient outcomes. The stroke team will be able to remotely access the brain scans of stroke patients with the AI analysis on a mobile app or email for faster decision making without losing time. The physicians are able to evaluate the patient without needing to be physically present and visit only when the AI analysis of the scans suggest indication for treatment.

The AI technology enabled advanced stroke management is to be launched at Apollo Hospitals locations at Bengaluru, Chennai, Navi Mumbai, Ahmedabad, Hyderabad, Delhi, Jayanagar, Sheshadripuram, Mysore and Indore.

### Neuro services are offered at 37 units:

|                                      |
|--------------------------------------|
| Apollo Hospitals, Ahmedabad          |
| Apollo Hospitals, Bangalore          |
| Apollo Hospitals, Bilaspur           |
| Apollo Hospitals, Bhubaneshwar       |
| Apollo Hospitals, Chennai            |
| Indraprastha Apollo Hospitals, Delhi |
| Apollo Jubilee Hills, Hyderabad      |
| Apollo Gleneagles Hospitals, Kolkata |
| Apollo Hospitals, Madurai            |
| Apollo Hospitals, Navi Mumbai        |
| Apollo Hospitals, Vizag              |
| Apollo Hospitals, Secunderabad       |

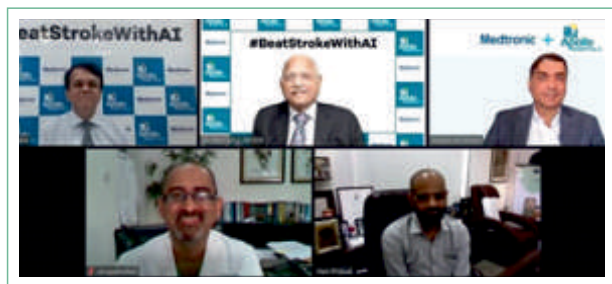
|                                      |
|--------------------------------------|
| Apollo Reach Hospitals, Karimnagar   |
| Apollo Hospitals, OMR                |
| Apollo Hospitals, Seshadripuram      |
| Apollo Hospitals, Kakinada           |
| Apollo Hospitals, DRDO               |
| Apollo First Med Hospitals, Chennai  |
| Apollo KH Hospitals, Ranipet         |
| Apollo Hospitals, Nellore            |
| Apollo BGS Hospitals, Mysore         |
| Apollo Hospitals, Karur              |
| Apollo Health City, Vizag            |
| Apollo Hospitals, Indore             |
| Apollo Hospitals, Nashik             |
| Apollo Hospitals, Tondiarpet         |
| Apollo Cancer Institute, Teynampet   |
| Apollo Hospitals, Jayanagar          |
| Apollo Hospitals, Hyderguda          |
| Apollo Jehangir Hospitals, Pune      |
| Apollo Hospitals, Noida              |
| Apollo Hospitals, Vanagaram          |
| Apollo Children's Hospitals, Chennai |
| Apollo Hospitals, Trichy             |
| Apollomedics Hospitals, Lucknow      |
| Apollo Hospitals, Guwahati           |

| Existing Clinical Expertise-Neurosciences                 |
|---|
| Micro – Neurosurgery                                      |
| Complex Spinal Surgeries/<br>Minimal Access Spine Surgery |
| Surgery for Spinal Cord Tumors                            |
| Surgery for Acute Head Injury and Spinal Injuries         |
| Stroke prevention / Stroke treatment                      |
| Epilepsy Surgery  |
| Skull Base Surgery  |

|  |
|--|
| Surgery for Parkinson's disease                              |
| Neuro-Endoscopic Surgery for Pituitary<br>Tumors/CSF Leaks   |
| Endovascular Coiling of Aneurysms/<br>Vascular Malformations |
| Vertebroplasty   |

## Neurosciences COE – Service Spectrum

- Auditory brain-stem implant (ABI)
- Botulinum toxin injection for neurological disorders
- Brain Tumour surgeries- including deep-seated and closer to brain stem tumour surgeries with intraoperative MRI
- Deep brain stimulation (DBS) for Parkinson's disease and movement disorders
- EC-IC bypass (extracranial-intracranial bypass) –where the brain's blood supply is augmented by diverting blood for blood vessels of face to brain
- Endovascular coiling of aneurysms and vascular malformations
- ICG integrated spectroscopic endoscopic pituitary surgery
- Mechanical thrombectomy for acute stroke
- Micro – neurosurgery
- Neuro-endoscopic surgery for pituitary tumors and CSF leaks
- Pediatric neurosurgery
- Skull base surgery
- Stroke prevention / stroke treatment
- Surgery for parkinson's disease
- Surgery for spinal cord tumors
- Surgery for acute head injury and spinal injuries
- Thrombolysis- intravenous intra-arterial and mechanical for acute stroke
- Vertebroplasty



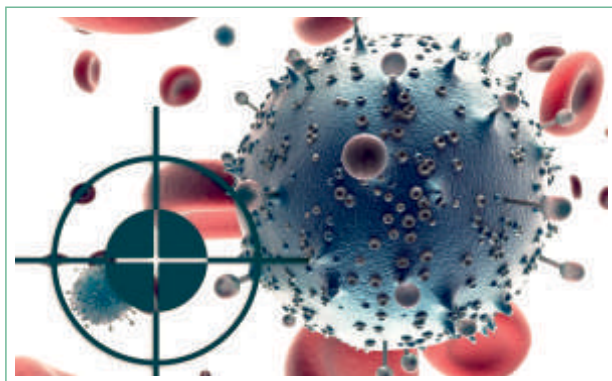
*Apollo Hospitals along with Medtronic aims to be the one of the first Hospital Group in South Asia to use technology in an organized and scalable manner for Comprehensive Stroke Management to bring a paradigm shift in the country for Management of Acute Stroke*

## Academics and Research- Neurosciences

| Academics and Research            | Number |
|-----------------------------------|--------|
| Adjunct Titles of Clinical Tutors | 08     |

|                       |
|-----------------------|
| DNB seats             |
| Neuro Surgery - 13    |
| Neurology - 12        |
| Neuro Anaesthesia - 4 |

## Center of Excellence – Oncology



<https://cycloextrinnews.com/2021/01/>

Apollo Hospitals brings together the brightest minds in surgical, medical and radiation oncology, along with a complete range of high-end ancillary experts. The cancer care system at Apollo Hospitals involves over 125 surgical and radiation oncology specialists as well as diagnostic consultants who offer comprehensive Cancer Care. The mission is to take the fight against

cancer to the next frontier, and redefine clinical benchmarks and outcomes.

### Apollo Cancer Centres are present at the following 22 units:

|   |
|---|
| Apollo Proton Cancer Centre, Chennai    |
| Apollo Cancer Centre, Teynampet         |
| Apollo Hospitals, Ahmedabad             |
| Apollo Hospitals, Bangalore             |
| Apollo Hospitals, Bilaspur              |
| Apollo Hospitals, Bhubaneswar           |
| Indraprastha Apollo Hospitals, Delhi    |
| Apollo Jubilee Hills, Hyderabad         |
| Apollo Hospitals, Navi Mumbai           |
| Apollo Hospitals, Vizag                 |
| Apollo Medics Hospital, Lucknow         |
| Apollo Hospitals, Madurai               |
| Apollo Gleneagles Hospitals, Kolkata    |
| Apollo Hospitals, Navsari (New Project) |
| Apollo Hospitals, Vizag                 |
| Apollo Hospitals, Guwahati              |
| Apollo Hospitals, Nellore               |
| Apollo Hospitals, Noida                 |
| Apollo Hospitals, Vanagaram             |
| Apollo Children's Hospitals, Chennai    |
| Apollo Hospitals, Trichy                |
| Apollo BGS Hospitals, Mysore            |

| Existing Clinical Expertise-Oncology |
|--------------------------------------|
| Robotic Surgery                      |
| Limbo Salvage Surgery                |
| HIPEC                                |
| TACE                                 |
| RFA                                  |
| Bio Bank                             |



|                                    |
|------------------------------------|
| Cancer Genetics                    |
| Liquid Biopsy                      |
| Vaccine Therapy                    |
| Immunotherapy and Targeted Therapy |

## Oncology COE – Service Spectrum

- Body radiation therapy (SBRT)
- Brachytherapy – intra cavitary
- Brachytherapy (ICBT), interstitial
- Brachytherapy (ISBT), intraluminal high dose rate brachytherapy (ILBT)
- Bone marrow transplantation services
- Breast conservative surgery
- Cellvizio – endomicroscopy system which generates optical biopsy
- Comprehensive suite of chemotherapy services
- Digital mammography
- Extra corporeal radiotherapy
- Genetic profiling
- Hematological malignancy treatment
- Hormonal therapy
- Image guided radiation therapy (IGRT)
- Immunotherapy
- Intensity modulated radiation therapy (IMRT)
- Limb surgeries for peripheral solid tumours
- Liver resections – staged hepatectomy and ALLPS
- Lobectomy/ pneumonectomy
- Mandibulectomy and advanced plastic surgery services
- Mediastinal mass excisions and chest wall tumour excision with reconstruction
- Minimally invasive oesophagectomy
- Molecular profiling
- The only proton therapy system in this part of world
- Paediatric oncology services
- Palliative radiotherapy
- Precision oncology focusing on precise treatment and outcomes
- Radical neck dissection
- Radical nephrectomy and radical cystectomy
- Rapidarc radiosurgery
- Respiratory gated radiotherapy
- Retroperitoneal lymph node dissection
- Robotic intervention, specially for urology and colorectal cancers
- Spect fibroscan
- Stereotactic radio surgery (SRS) with brainlab, stereotactic radio therapy (SRT)
- Stereotactic surgery suite using cyber knife
- Surgical gastroenterology services
- Total body irradiation
- Total/ partial penectomy with groinnode sampling/ dissection

- Tumour board
- Volumetric radiotherapy (VMAT)
- 99 TC bone scan
- 128 slice pet scan

## Academics and Research- Oncology

| Academics and Research            | Number |
|-----------------------------------|--------|
| Adjunct Titles of Clinical Tutors | 13     |
| DNB seats                         |        |
| Medical Oncology - 11             |        |
| Surgical Oncology - 8             |        |
| Paediatric Haemto Oncology - 4    |        |

## Center of Excellence- Transplant



<https://utswmed.org/medblog/doctor>

With an unparalleled experience of performing over 19,750 Solid Organs Transplant (kidney- 15,730; liver- 3,675 and others organs- 345), Apollo Hospitals leads the world in being the busiest Solid Organ Transplant Program in the world since 2013.

India's first pediatric liver transplant case, operated in 1998 at Indraprastha Apollo Hospitals, New Delhi has graduated to become a doctor in 2020.

Apollo has demonstrated leadership in performing safe transplant during the COVID pandemic. When most of transplant centres in the world have either stopped or, reduced their transplant surgery, Apollo Hospitals has

emerged as a leading transplant centre and implemented safety protocols and assured safe solid organs transplantation in this pandemic. In the pandemic year 2020, Apollo Hospitals has performed 156 liver transplants which is 20% of India's total liver transplant volume performed in this period. Over 634 kidney transplants were performed in the year 2020.

## Transplant services are offered at 24 units:

|                                      |
|--------------------------------------|
| Apollo Hospitals, Ahmedabad          |
| Apollo Hospitals, Bangalore          |
| Apollo Hospitals, Bilaspur           |
| Apollo Hospitals, Bhubaneshwar       |
| Apollo Hospitals, Chennai            |
| Indraprastha Apollo Hospitals, Delhi |
| Apollo Jubilee Hills, Hyderabad      |
| Apollo Gleneagles Hospitals, Kolkata |
| Apollo Hospitals, Madurai            |
| Apollo Hospitals, Navi Mumbai        |
| Apollo Hospitals, Trichy             |
| Apollo Hospitals, Guwahati           |
| Apollo Hospitals, Nellore            |
| Apollo BGS Hospitals, Mysore         |
| Apollo Hospitals, Indore             |
| Apollo Hospitals, Nashik             |
| Apollo Jehnagir Hospitals, Pune      |
| Apollo Hospitals, Noida              |
| Apollo Hospitals, Vizag              |
| Apollo Hospitals, Vanagaram          |
| Apollo Hospitals, Kakinada           |
| Apollo Cancer Institute, Teynampet   |
| Apollo Health City, Vizag            |
| Apollomedics Hospitals, Lucknow      |

## Existing Clinical Expertise-Transplant

|   |
|---|
| Haemodiafiltration                              |
| Everling  |
| Liver Transplants in very small infants (<5kgs) |
| Multi-organ/Small bowel transplants             |
| ABO incompatible transplants                    |
| Transplants in individuals with Situs           |

## Transplant COE – Service Spectrum

- Living donor organ transplant
- Deceased donor organ transplant
- Adult transplant
- Paediatric transplant
- Kidney transplant
- Liver transplant
- Heart transplant
- Lung transplant
- Combined heart and lung transplant
- Pancreas transplant
- Intestinal transplant
- Multi-organ transplant
- Cornea transplant
- ABO incompatible transplants

## Infrastructure

Apollo has unbeatable infrastructure for the transplant programme:

- Modular OTs
- Dedicated Transplant ICUs
- Dedicated Post Transplant wards
- Highly Skilled and Trained Clinical and Support Teams
- Organ Oxmetra, can keep a liver 'alive' for up to 24 hours after donation.

## Academics and Research- Transplant

| Academics and Research            | Number |
|-----------------------------------|--------|
| Adjunct Titles of Clinical Tutors | 03     |
| DNB seats                         |        |
| Liver Transplantation - 2         |        |

## Center of Excellence - Emergency



As pioneers of emergency care services in India, the emergency care system at Apollo Hospitals delivers emergency services that extends from care at the site of the incident through transport, emergency department care, and ensuring access to early operative and critical care when needed.

The protocols at the 24-hour emergency service and trauma care departments are designed to respond quicker and have proven outcomes that are on par with the very best in the world. The multi-specialty prowess is leveraged actively to deliver the crucial edge in emergency care.

### Emergency services are offered at 38 units:

|                                      |
|--------------------------------------|
| Apollo Hospitals, Ahmedabad          |
| Apollo Hospitals, Bangalore          |
| Apollo Hospitals, Bilaspur           |
| Apollo Hospitals, Bhubaneswar        |
| Apollo Hospitals, Chennai            |
| Indraprastha Apollo Hospitals, Delhi |
| Apollo Jubilee Hospitals, Hyderabad  |
| Apollo Gleneagles Hospitals, Kolkata |
| Apollo Hospitals, Madurai            |

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

|                                      |
|--------------------------------------|
| Apollo Hospitals, Navi Mumbai        |
| Apollo Hospitals, Vizag              |
| Apollo Hospitals, Secunderabad       |
| Apollo Reach Hospitals, Karimnagar   |
| Apollo Hospitals, OMR, Chennai       |
| Apollo Hospitals, Seshadripuram      |
| Apollo Hospitals, Kakinada           |
| Apollo Hospitals, DRDO               |
| Apollo First Med Hospitals, Chennai  |
| Apollo KH Hospitals, Ranipet         |
| Apollo Hospitals, Nellore            |
| Apollo BGS Hospitals, Mysore         |
| Apollo Hospitals, Karur              |
| Apollo Health City, Vizag            |
| Apollo Hospitals, Indore             |
| Apollo Hospitals, Nashik             |
| Apollo Hospitals, Tondiarpet         |
| Apollo Hospitals, Karaikudi          |
| Apollo Hospitals, Teynampet          |
| Apollo Hospitals, Jayanagar          |
| Apollo Hospitals, Hyderguda          |
| Apollo Jehangir Hospitals, Pune      |
| Apollo Hospitals, Noida              |
| Apollo Hospitals, Vanagaram          |
| Apollo Children's Hospitals, Chennai |
| Apollo Hospitals, Trichy             |
| Apollo Hospitals, Guwahati           |
| Apollomedics Hospitals, Lucknow      |
| Apollo Hospitals, Aragonda           |

|  |
|--|
| <b>Existing Clinical Expertise-Emergency</b>                       |
| Emergency 2.0  |
| Air Ambulance  |
| Code FAST  |
| E-ICU  |
| ReSQ CPR System  |
| Clinical Pathways – Acute MI, Acute Stroke, Poly trauma and Sepsis |

**Advanced Resuscitation Services – Targeted Temperature Management, Primary Angioplasty and ECMO.**

**Aero Medical Transport – Domestic and International Retrievals.**

**Highway Trauma Rescue and Retrievals**

**Pandemic Response – Triage, Screening and Treatment.**

## Emergency COE – Service Spectrum



- Air Ambulance
- Golden Hour concept for early management of Stroke - Code FAST Protocol
- Acute MI management – primary angioplasty
- Trauma management
- Sepsis management
- E-ICU services

## Pre-Hospital Care (Emergency Medical Services – EMS)

- Easy Access National Number – 1066
- Ground Support - BLS & 24 X 7 ACLS Ambulances, 2-Wheeler First Responder Services. Critical Care Transport.
- Air Ambulance – Fixed Wing National and International retrievals, Helicopter EMS (HEMS).
- Medical Priority Dispatch System (MPDS)
- Mass Gathering Medical Care – Sporting Events, Mass Gathering events.
- Acute Stroke and Cardiac Thrombolysis Centre and Radiological Intervention
- Bedside Ultrasound and Echo procedures – For FAST scan, Central Lines, HHD catheters, Lung Ultrasound and 2 D Echo

## Adult Emergency Care



- Advanced Resuscitation Services (ARS)
- Clinical Pathway based Care – acute MI (Chest pain), acute stroke, polytrauma, sepsis.
- Major Emergencies – All major medical and surgical emergencies including OBGYN, environmental and toxicological emergencies.
- Minor Emergencies – All health-related issues which needs medical attention. Fast Track Clinics including after-hours services. Minor procedures including procedural anaesthesia.
- Medico legal Emergencies – Motor vehicle crashes, burns, fall from height, workplace injuries, assault, poisonings, animal bites and sexual abuse
- Pain management

## Specialised Emergency Care

- Paediatric Emergency Care – All major and minor ailments and conditions.
- Geriatric Emergency Care - All major and minor ailments, care for frail and elderly
- Infectious Diseases – Isolation, Barrier Nursing

## Crisis and Disaster Management

- Disaster Medical Assistance Team (DMAT)
- Pre-hospital / On Scene Disaster Response
- Pandemic Response – Isolation and Medical Management

## Community Programs

- CPR Training
- First Aid Training
- Workplace based Emergency Response Training



|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

- Awareness Programs – Seasonal Emergencies.

### Tele Emergency Services

- Occupational Health Units
- Remote Health Units

### Academics and Research- Emergency

| Academics and Research            | Number |
|-----------------------------------|--------|
| Adjunct Titles of Clinical Tutors | 02     |

|                         |
|-------------------------|
| DNB seats               |
| Emergency Medicine - 23 |

# Apollo HomeCare

Service Spectrum for Apollo HomeCare

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Facing the COVID-19 Challenge

78

# HomeCare

Apollo HomeCare has been skillfully designed to provide high quality, personalized and professional healthcare services at home. It brings in clinical expertise supported by international guidelines, well-trained, accredited professionals at all levels including physicians, nurses, and technicians.

## The service spectrum for Apollo HomeCare includes:

### Home Visit Programs

The Home Visit Program is aimed at providing care to patients who may not require extensive and regular medical interventions, but may need medical assistance from time-to-time. Homecare doctors, nurses and expert physiotherapists are available on-call for timely intervention and for general medical needs.

Home Visit Programs includes

- **Visits**

Doctor, nurse and physiotherapist can be called home for specific one-time healthcare needs.

- **Medical Procedures**

Medical procedures like wound dressing and urinary catheterization can be done in the comfort of home.

- **Investigations**

HomeCare technicians collect lab samples from patients homes.

- **Vaccinations**

Trained vaccinators provide immunization and

comprehensive vaccination services at home.

### Home Partnership Programs

Home Partnership Programs are devised to facilitate long-term care for patients.

This long-term assistance is ideal for patients who are suffering from prolonged illness and for those who require assistance post-hospitalization or post-surgery.

Apollo HomeCare team of professionals ensure that treatment and care are available round the clock to patients. The team of home health professionals (physician/doctor, nurses and physiotherapists) work closely with patients' primary physician/doctor.

Regular updates regarding the progress and recovery of the patient are discussed with family members as well.

Home Partnership Programs include:

- **Ortho Rehab:** Total Knee Replacement, Total Hip Replacement and Spine Surgery
- **Heart Rehab:** Congestive Heart Failure and Post Cardiac Surgery
- **Neuro Rehab:** Stroke, Parkinson's, Post Brain and Spinal Surgery
- **Lung Rehab:** Asthma and Chronic Obstructive Pulmonary Disease
- **Mother and Baby Care:** Post-natal Care and support for Mother and Baby
- **Elderly Care:** Long term partnership plans for geriatric care.

## Facing the COVID-19 Challenge

The year 2020 was marked by an unusual challenge faced by the entire healthcare industry due to COVID-19. Whilst it impacted the entire healthcare chain, home healthcare was particularly impacted due to lockdowns and hesitancy of patient and families to allow healthcare providers entering their home. Similarly, the home healthcare staff were worried about their own safety and well-being



However, the Apollo HomeCare team rose up to the mammoth challenge and worked on the following three fronts:

- 1) Continuing care for all the existing patients
- 2) Reducing the risk of COVID-19 for the existing patients and their families
- 3) COVID care at home
  - Establishing the remote home monitoring program – 'Stay I at home' to address the

needs of mildly symptomatic /asymptomatic COVID positive patients (As per the MOHFW guidelines)

- Home equipment support -BIPAP, Oxygen concentrators, home health kit
- Home nursing for COVID and post COVID cases

## Continuing the Care for Existing Patients during COVID-19

This was done through triaging based on clinical and social needs of the patients and their families. In discussion with the families, a 'Stay at Home' model was proposed for the care providers to stay at patients' home in order to reduce the risk of COVID infection for the patient as well as the care provider. During the peak pandemic period, over 300 patients per day were cared for by the home nursing program. It was ensured that none of the vulnerable patients contracted COVID infection by ensuring strict compliance to use of PPE, hand hygiene and social distancing.

## Reducing Risk of COVID-19 for Existing Patients and their Families

At the onset of COVID-19 pandemic the Apollo HomeCare team took it as a challenge to proactively reach out all the existing patient families and educate them about COVID-19 safety. This was done through a well-co-ordinated education campaign via whatsapp, emailers and engagement programs. Facebook live sessions were also conducted on various topics to create awareness amongst the community about COVID-19.

## COVID Care at Home

The HomeCare team did exemplary work under adverse circumstances to reach out to patients and

families who needed help during the COVID - 19 pandemic.

A holistic program called 'STAY i @ Home' (as a part of the Apollo KAVACH initiative), was launched for the mildly positive/asymptomatic COVID-19 patients to be treated at home. The program focussed on lung rehab, clinical needs and motivational needs. Till December 2020, the program managed across 8500 mildly positive cases at home from across 120 cities/towns in India at a fraction of a cost of what they would spend in a hospital.

The 'Stay i @Home' project also worked with more than 40 leading corporates of India and helped them restore confidence in their employees during these difficult times.

COVID care for the Elderly – for some of the patients whose hospitalisation was difficult, the clinical team went out of the way to care for them. The elderly were treated at home under the guidance of infectious disease specialists. This was done for over 500 cases.

The program was very well received by patients and families and the team received countless appreciation notes from the families.

The team was also able to get people to get back to

their hobbies during these difficult times through our motivational/engagement and entertainment sessions.

## Equipment Support at Home

During the pandemic, when the hospitals were running full, a number of patients needed oxygen /BIPAP support at home. The HomeCare team went all out to address this need in the community by making this equipment available to patients even during the strictest lockdown times.

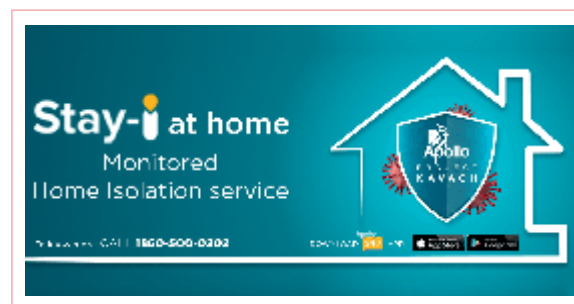
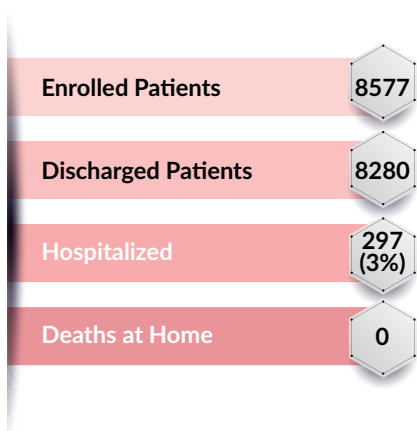
## Post COVID Care

The ReCOVER at Home Program for post COVID care, integrated tele-rehab and virtual consultations. Over 700 cases for post COVID care were successfully managed.

## Stay i @Home

'Stay i @Home' is a monitored home isolation service offered by Apollo HomeCare. The services are based on the latest guidelines from Indian Council of Medical Research (ICMR)/ Ministry of Health and Family Welfare (MoHFW), which recommends home isolation for patients who are pre-symptomatic or have very mild symptoms, and are either positive or suspected of COVID-19.

'Stay i @Home' is a comprehensive program of medical care and advisory services that is required to take care of COVID-19 patients for the complete 14 days of home quarantine.





## Stay i @Home services include:

### Clinical needs

- Daily monitoring of vital signs, such as temperature, pulse, respiratory rate, oxygen saturation levels
- Monitoring of COVID-19 symptoms as prescribed by ICMR
- Assessment and management of pre-existing illness/comorbidities etc. such as diabetes, high BP, asthma, COPD and heart problems

### Dietary and nutrition needs

- Weekly nutritionist assessment and guidance on building immunity through nutrition
- Follow-up assistance calls by a professional dietician

### Education and awareness

- Do's and don'ts during the isolation period
- Roles and responsibilities of the caregiver
- The process of surface cleaning, sanitising the room, waste disposal, etc.
- Patient's personal hygiene and protection
- Red alerts to notify the physician
- Use of home isolation kit – patient's and caregivers

### Motivation and engagement

- Engagement with a professional trainer a daily basis in area of patient's interest to help overcome the boredom of isolation.
- Engagement through planned, surprise and group activities like games, quizzes, motivational talks, etc. based on likes and dislikes.

### Mental health and wellness

- Detailed mental health assessment by a professional psychologist to assess the emotional stability of the patient.
- Guidance provided to address stress factors such as financial insecurity / loneliness and depression.

### Movement and mobility

- Daily assessments of physical abilities by expert physiotherapists.
- Daily virtual rehab sessions (30 minutes) conducted by professional physiotherapist.
- Special focus on breathing exercises using yoga and incentive spirometry.

### Support services

- In case of any worsening of symptoms or any new development, team led by a physician guides patient to the next level of treatment.

## Summary Snapshot



## Remote Monitoring HUB



# Information Technology and Telemedicine

Information Technology

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Apollo 247

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Apollo Telehealth Services (ATHS)

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# Information Technology and Telemedicine

## Information Technology

IT services at Apollo Hospitals enable integrated care continuum for our patients, optimizing outpatient care including health checks. The approach focuses on optimizing administration and clinical processes, empowering care givers, eliminating manual processes and achieving fully paperless ward operations. Investigative analytics streamline data as per predefined KPIs (Operational/Clinical/Financial). The outcome is to enable an increased level of information, transparency, collaboration, personal choice and responsibility in the caregiving process. Crucially, it's about supporting patients' preferences in the management of their care and providing convenient options for where and when they can receive it.

### Certification

Apollo Hospitals Enterprise has been certified for Information Security Management System ISO27001:2013 by the British Standards Institute (BSI).

ISO 27001:2013 provides a set of standardised requirements for an Information Security Management System (ISMS). The standard adopts a process-based approach for establishing, implementing, operating, monitoring, maintaining, and improving our ISMS (Information Security Management System).

### CHIME Digital Health Most Wired Survey

Apollo Hospitals recieved Level 8 – Digi Tech Adoption Award by the College of Healthcare

Information Management Executives (CHiME) for the year 2020. Out of a total sample of 30,500 hospitals, 13 hospitals across the world of the above superset have been recognized as Level 8.

The mission of the CHiME “Digital Health Most Wired” program is to elevate the health and care of communities around the world by encouraging the optimal use of information technology. The program does this by conducting an annual survey to identify, recognize, and certify the adoption, implementation, and use of information technology by healthcare provider organizations. The results are intended to improve patient safety and outcomes by driving change in the healthcare IT industry.

Organizations that achieve Level 8 certification meet the criteria for being designated as Most Wired. These organizations have deployed technologies and strategies (e.g., population health/cost-of-care analytics, HIEs/integration engines, and patient portals) to help them analyze their data and are starting to achieve meaningful clinical and efficiency outcomes. Some of these organizations are experimenting with more advanced technologies, like telehealth, that expand access to care. There are 10 achievable levels.



## Information Security and Governance

Apollo Hospitals has established the governance structure for privacy and data security.



<https://www.simplilearn.com/information-security-vs-cyber-security-article>

### Management Information Security Forum (MISF)

Management Information Security Forum (MISF) has been established at Apollo Hospitals. This defines the management framework which has been formulated to initiate and control the implementation of information security within the organization. The roles and responsibilities of various members of the Management Information Security Forum within Apollo Hospitals Enterprise Limited (AHEL) are defined.

Management Information Security Forum (MISF) plays a key role in achieving information security objectives with respect to 'Confidentiality', 'Integrity' and 'Availability'.

The MISF undertakes the following activities:

- Ensuring that information security goals are identified, organizational requirements are met and are integrated in relevant processes.
- Initiating plans and programs to maintain information security awareness on a continuous basis.
- Ensuring adequate resources are available when required for information security.

- Ensuring that implementation of information security controls is coordinated across all the Apollo Hospitals Enterprise Limited (AHEL) locations in scope.
- Reviewing and approving information security policies and overall responsibilities.
- Monitoring significant changes in the exposure of information assets to major threats.
- Reviewing and monitoring major security incidents.
- Authorizing any new information processing facilities after:
  - Ensuring all appropriate information security controls are implemented.
  - Reviewing the facility to ascertain if it meets the security requirements as mandated by Information Security Management System (ISMS).
- Approving major initiatives to enhance information security.
- Reviewing the effectiveness of the implementation of the information security policy.
- Providing clear direction and visibility to management with respect to security initiatives.

The MISF identifies the needs for internal or external specialist information security advice, and reviews and coordinate results of the advice thereafter for implementation.

### Measures taken for Data Security

- **Microsoft Defender for Apollo Emails**
  - Microsoft Defender for Office 365 safeguards against malicious threats posed by email



messages, links and collaboration tools

- **Multi-Factor Authentication (MFA) for Apollo Emails**

- Multi-factor authentication increases the security of user logins for cloud services above and beyond just a password. With Multi-Factor Authentication for Office 365, users are required to acknowledge a phone call, text message, or an app notification on their smartphone after correctly entering their password.

- **SAFE**

SAFE is Security Assessment Framework for enterprises from Lucideus that embeds AI and ML algorithms for effective threat management, which would be both proactive and reactive. Such continuous learning moves the organization towards a higher degree of intelligent and automated advanced threat protection.

SAFE enables an organization to predict cyber breaches in their environment while contextually aggregating signals from existing cybersecurity products, external threat intelligence and business context. This data is fed into a supervised Machine Learning Bayesian Network-based breach likelihood prediction engine that gives scores, prioritized actionable insights and the Value Risk the organization is facing.

### Training on information security and data privacy

Following are the different types of training provided to various set of users at different intervals:

For Top Management

- Information security awareness

### New Employees

When the employees join, induction training for all employees is conducted, which covers the following

- Acceptable use of applications
- Acceptable use of internet and office emails
- Acceptable use of IT assets
- Information security awareness
- Password management best practices

To all employees

- Repetitive training programmes are provided for updation on information security awareness.
- Password management best practices
- IT Advisory mailers on SPAM mails and best practices

### Training Platforms

- Cyber Security Strategist Certification – Provided by Data Security Council of India (DSCI), which is the de facto security body of NASSCOM and MEiTY.
  - Senior Management of IT are nominated as members to the DSCI health sector governance.
- Cybersecurity and Privacy- Self Paced Training by SAFE Me, Lucideus
  - SAFE Me is a cybersecurity assessment platform, where employees of our organization can learn the essentials of cybersecurity in the form of video courses followed by a quiz at the end of each course.
  - The platform offers 32 information security, privacy, cyber security learning and awareness modules for employees.

- SAFE Me quantifies the cybersecurity awareness and mobile device assessment of individuals on a scale of 0 to 5 and provides an aggregated. SAFE Me score for all the people in the organization.
- Personal Data Protection Act
  - Training and orientation on the proposed legislation provided by Cyber Security Lawyers to the Information Security Team
- Email and data security awareness training by microsoft
  - Training provided by Microsoft to the Information Security Team on data protection and advanced threat protection for the cloud environment.

#### Detection Controls

- a) Internal audit once in a year
- b) Internal monthly vulnerability assessment through industry standard assessment tools rated at five stars by Gartner Peer Insights March 2020.
- c) External penetration testing – once in a year
- d) ISO 27001 risk assessment
- e) JCI / NABH / NABL risk assessment – aligned with organizational assessments
- f) Quarterly ITGC audit
- g) Enterprise risk audit / risk identification
- h) Cyber Maturity conducted for the organization to evaluate the roadmap of security maturity and to lay the execution action plan. The security maturity assessment was conducted by a leading security service provider, who has been ranked as the leader in quadrant of Gartner.

#### Policies enforced

- a) Acceptable Use Guideline
- b) Password Policy
- c) Access Control Policy
- d) Change Management Policy
- e) Incident Management Policy
- f) Backup and Restoration Policy
- g) Media Handling Policy
- h) Data Classification Policy
- i) Internet Policy
- j) 3rd Party Access Policy
- k) e-Wastage Policy
- l) Social Media Policy
- m) Data Privacy Policy
- n) Physical and Environment Policy

#### Controls Implemented

Non-Disclosure Agreement (NDA), Information Security Awareness at induction, screen savers, newsletters, classroom training, workshops, log-on banner.

#### Technical Measures

- a) Intrusion Detection System (IDS) / Intrusion Prevention System (IPS)
- b) Firewall
- c) IP NATing
- d) Production on Demilitarized Zone (DMZ)
- e) Advanced Interactive eExecutive (AIX Platform)

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

- f) Administrator log enabled
- g) Production separated from User Acceptance Testing (UAT)
- h) Audit Log / Transaction Log enabled
- i) Privileges: Role based access control
- j) Two factor authentication
- k) Data Loss Prevention (DLP)
- l) Vendors NDA
- m) Disaster resiliency with IBM
- n) Nagios and SolarWinds for monitoring

#### Corrective Controls in Place

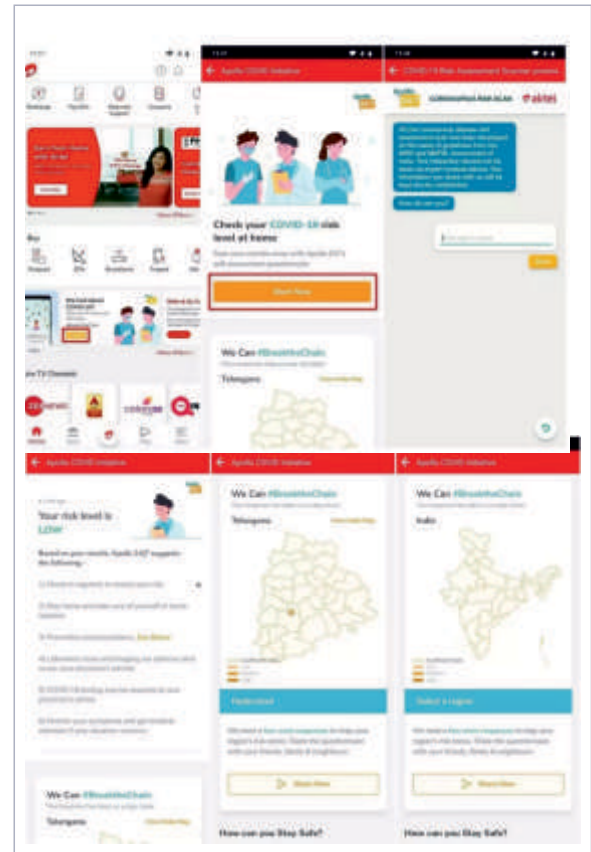
- a) Backup with ZERO RPO
- b) Disaster recovery with IBM – RPO 15 Minutes, RTP 4 Hours, DR Drills in place
- c) Daily restoration test in place

## Apollo 247

A growing disease burden, increasing digital and technology disruption combined with evolving consumer needs is transforming the healthcare sector and requiring seamless delivery through physical and digital channels. Unlike other sectors, digital disruption in healthcare is in the early stages. Apollo Hospitals aims to provide quality healthcare by extending and amplifying its existing 'offline healthcare delivery' supremacy through an omni-channel healthcare delivery model.



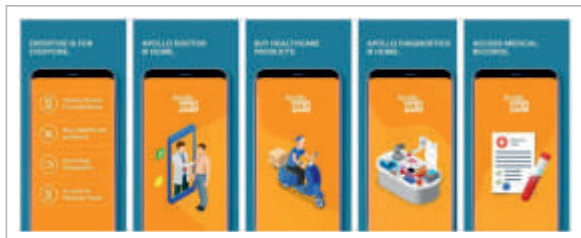
Apollo 247, the AI-powered bot is a healthcare ecosystem by itself with an aspiration to reach 100 million consumers in the next five years.



Apollo 247 is a distinctive end-to-end offering to meet a comprehensive set of healthcare needs through both digital and physical channels while empowering patients and consumers with private, ubiquitous and intelligent services. This is India's largest and most significant multi-channel healthcare delivery platform, which includes the:

- Omni-channel retail pharmacy
- Virtual doctor consultations
- Online diagnostics bookings
- Chronic focused condition management offerings

- Health predictor
- Well-being companion
- Health insurance aggregator
- Electronic health records (EHR).

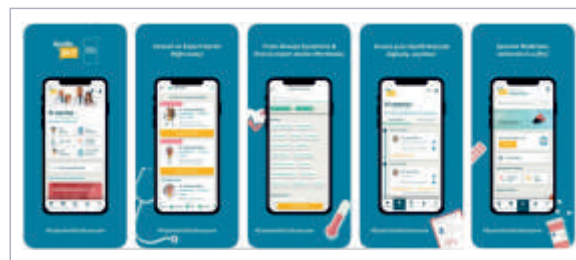


Apollo 247 was launched in Feb 2020 and is continually being scaled up with addition of newer features. The platform vision has an end state design of more than ten products.

In just a year of being, it has accomplished major milestones:

- 5.5+ million app downloads
- 6.5+ million registered users and 3.4 million new patients served
- 5+ lakh active users
- 4300+ active doctors on the system
- 0.25 million virtual consultations completed
- 20K+ home deliveries of medicines per day by multi-channel medicine delivery operations
- Approximately 1.3 crores citizens undertook a Covid-19 scan
- Consumers served across 12,000+ pin codes in India across 843 cities

- Consumers in 950+ pin codes serviced through same day medicine delivery
- Journey of engagement of approximately 5.4 crore One Apollo consumers across the Group



## Apollo Tele Health Services (ATHS)

Apollo TeleHealth is the largest telemedicine network providing specialized solutions like Tele-consults, Tele-radiology, Tele-cardiology, Tele-Condition Management, e-ICU and others. ATHS is empowering remotely located populations across the globe to access Apollo Hospitals' world renowned medical expertise through its state-of-the art technology. With the advancement of technology and enhanced use of connected medical devices, the benchmark is being raised year on year.

### COVID-19 Management

As the COVID-19 situation continues to evolve, telemedicine was rapidly adopted by individuals and organizations across India. Since March 2020, India's leading telehealth service provider, Apollo TeleHealth (ATHS) has experienced an almost three-fold increase in teleconsultation case volumes. ATHS has successfully delivered over one million teleconsultations through different projects and initiatives during the lockdown.

With the advent of the COVID-19 pandemic, the stress on existing health systems has increased exponentially. A new product line was introduced during the pandemic- Tele-COVID Management along with Tele-Emergency and Tele-ICU services.

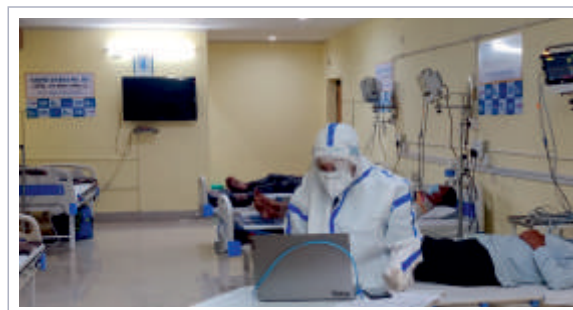
#### Tele-COVID Management at NTPC (seven locations across India):

National Thermal Power Corporation (NTPC) is a Public Sector Undertaking (PSU), working towards ensuring electrical power supply across India. NTPC has power plants located in some of the remote places across India. In order to address the health needs of NTPC employees and their families, the tele-health Services program was launched with a focus towards management of COVID-19. The program was conceptualized with a vision to provide timely clinical care for COVID-19 cases and other health conditions along with delivering validated and evidence-based information pertaining to COVID-19, at seven identified NTPC power plants across India.

Seven NTPC locations were equipped with COVID-19 isolation wards, Tele Emergency and Tele-ICU within 30 days

#### Milestones

- 40+ COVID cases were managed
- 400+ speciality teleconsultations were provided
- 40+ emergency patients were stabilized



Tele-COVID Management at NTPC

#### Tele-COVID Management at CAIRN India

Cairn Oil and Gas, a vertical of Vedanta Limited, is the largest oil and gas exploration and production company in India. Cairn TeleHealth Services program is an initiative of Cairn Oil and Gas, Vedanta Group, to provide health care services to its 2000 employees. This program was implemented by Apollo Remote Healthcare, by deploying the latest Information and Communication Technology (ICT) coupled with trained human resource and advanced diagnostics.

Under this program, primary, specialty, super-specialty, emergency teleconsultations, laboratory services and COVID-19 teleconsultations were provided to Cairn employees and their family members. With the intention to promote preventive health-seeking behavior, health profiling of Cairn employees was done. Social health education sessions were organized. A Doc-On-Call program was introduced catering to an employee strength of about 25,000, providing instant doctor connect for specialty and non-specialty consultations.



## Milestones

- 420+ COVID cases were managed
- 200+ specialty teleconsultations were provided
- 10+ emergency patients were stabilized



*Tele-COVID Management at CAIRN India*

## Improving Healthcare Accessibility and Affordability

### Smart Health Kiosks

Apollo TeleHealth has introduced 'Smart Health

Kiosks', a smart way to access healthcare. The kiosk enables consumers to keep a check on their health on the move. Its unique capacity to provide access to vital signs for chronically ill patients and point-of-care testing enables consumers to screen themselves for chronic diseases, infectious diseases, cardiac diseases and seasonal diseases within the vicinity of their homes and consult specialist doctors based on the known illnesses or consult a general physician to enquire about their illness.

The skewed doctor to patient ratio results in delay in access to healthcare and compromises quality of treatment and thereby quality of life. Health Kiosks could be an answer in reducing burden on physicians and health centers with easy access to patients. Health Kiosks provide quick and convenient preventive health screening, connect patients with certified doctors using high-definition video conferencing, digital medical devices, and web/mobile applications.



*Smart Health Kiosks*

## CSR Connect:

### Sanjeevani Telehealth Seva for Madhya Pradesh:

The service offered a toll-free number which helped patients to seek timely medical help without visiting a nearby healthcare facility. This was beneficial for people with non-COVID related health issues during the lockdown. The project was implemented as “Sanjeevani TeleHealth Seva” for the Madhya Pradesh Government under the CSR initiative of BFIL (an undertaking of IndusInd Bank). Initially, the scope was limited to Bhopal and Indore, but it was later extended for the entire state of Madhya Pradesh. The service offered specialist consultations under nine specialties namely General Medicine, Gynaecology, Dermatology, Orthopaedics, Endocrinology, ENT, Paediatrics, Ophthalmology and Cardiology. The patients who called the toll-free number were first attended to by a General Physician for clinical assessment and triaging. Specialist consultation was thereafter conducted. Patients received the prescription on their mobile phones through SMS as well as email. The toll-free number received over 200 calls within a few hours of the launch.

**Sanjeevani Health Seva**

**1800-103-7378**

*Sanjeevani Telehealth Seva for Madhya Pradesh*

### BFIL – Hub and Spoke Model:

The model involves a primary centre and several sub-centres with required ICT equipment, connected devices and a telemedicine platform. The primary centre was configured with a clinical laboratory, pharmacy, immunization facility along with a GP for consultations and referral to Hub (ATNF) for specialist / super-specialist

teleconsultations. The sub-centres were connected to the primary centre through POCT devices and telemedicine pod along with a paramedic Staff / ANM. The consultation with GP was through the telemedicine pod and further referred to the Hub (ATNF) for specialist/super-specialist teleconsultations. The model was made active for BFIL (undertaking of IndusInd Bank) with one primary centre and eleven sub-centres.

#### Facilities:

- POCT Equipment
- Nurse / Auxiliary nurse Midwife
- Pharmacy Auto Drug Dispensary
- ICT Equipment



### Other CSR Projects

- Beat Diabetes: 300,000+ people screened till date
- Social Health Education Program: 20,000+ people benefited
- NCD Screening: 1.5 million people screened for diseases like hypertension, cancer, asthma

### For Corporates and their Employees

#### Doc-on-Call

The service enables instant teleconsultation with

the doctors anytime through a dedicated toll number. This initiative was a quite useful for the corporates and their employees, as the service provides instant access to doctors without hassles of unnecessary travel and waiting period at the hospital/medical centre.

### Milestones

- 25+ corporates enrolled
- 200 thousand+ lives touched

### Tele Medical Examination Reporting for Life Insurance Corporation (LIC) of India

Apollo TeleHealth has signed an MoU with LIC of India as Medical Service Provider. The program was for the provision of tele-medical examination services for beneficiaries of LIC from 37 divisions in India.

LIC has over 2500 branches in the country which are clustered in 112 divisions. The operations of LIC runs across 8 zones in the country which are further divided in divisions. Each division of LIC operates close to 20 branches. The LIC over a period has evolved and moved from extending policies through conventional methods of agents selling the policies to offering policies to its customers directly online.

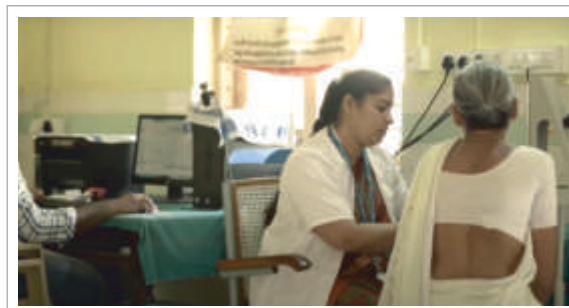
Apollo TeleHealth through this association has taken up service delivery for LIC beneficiaries from more than 650 branches in the country. These services entail:

- Delivery of tele medical examinations for general insurance
- Delivery of tele medical examination for general insurance for females
- Delivery of tele medical examination for children

## Project Updates

### Urban Primary Health Centre – UPHC

- 3 million+ unique patients
- 13.4 million+ tele-consultations
- 8 million+ laboratory tests
- 1.2 million immunizations
- 4.8 Million+ COVID assessments
- 700,000+ COVID tests conducted



Electronic Urban Primary Health Centre (e-UPHC)

### Digital Dispensary - Jharkhand

- 425,000+ consultations
- 235,000+ unique patients
- 168,000+ lab investigations



Jharkhand Digital Dispensary PPP project

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
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## Remote Establishments

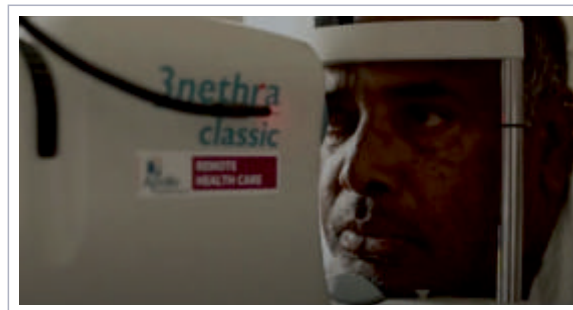
- 740+ tele-emergency cases handled
- 2070+ specialty and super specialty consultations done
- 2640+ unique patients treated
- 2750+ physiotherapy sessions
- Catering to 2500 employees and their families

## Tele-Covid Management

- 500+ COVID cases handled
- 4500+ COVID tele-consultations
- 500+ specialty tele-consultations
- 40+ emergency patients stabilized

## Tele-Ophthalmology – MeEK

- 1.5 million lives touched
- 1.2 million refraction checks done
- 380,000+ fundus examinations
- 1.2 million spectacles distributed



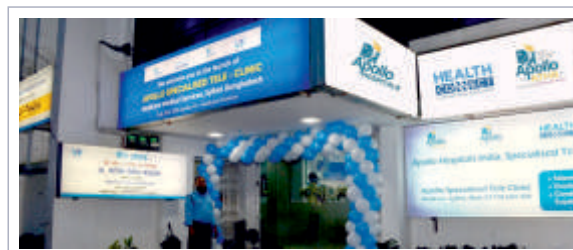
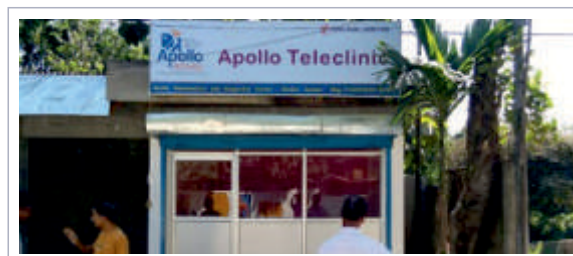
Tele-Ophthalmology (MeEK)

## Tele-Emergency

- 2,060+ emergency patients stabilized
- 23,000+ tele-consultations
- 18,000+ laboratory tests

## Tele-Clinics

- 1 million+ tele-consultations
- Providing business opportunities to over 100 franchisees
- Direct employment for 350 staff
- Tele-clinics enabled with integrated POCT devices (ECG, basic lab parameters, vitals)



Apollo Tele-Clinics

## **Uttar Pradesh (PPP)**

### **Tele-Radiology Services**

- 134 Community Health Centres
- More than 87 thousand radiology reports delivered

### **Telemedicine Services**

- 120 Community Health Centres
- More than 242 thousand tele-consultations done



|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
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# Corporate Social Responsibility (CSR)

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# Corporate Social Responsibility(CSR)

## Apollo Foundation

Apollo Foundation has pioneered various social initiatives to help in the emancipation of grass roots communities.

The commitment of Apollo Hospitals towards social responsibility through inclusive healthcare has inspired the plan for the establishment of the Apollo Foundation. With an aim to upgrade the standards of living and healthcare across various regions, several impactful programmes have been initiated.

These programmes cover areas such as Rural Development, Rural Healthcare, Skill Development and Vocational Training, Research in Healthcare, Pediatric Cardiology, Cancer Care, Cardiovascular Risk Awareness, Medical Camps, and Disaster Relief Programmes. The various CSR initiatives run by different Apollo Hospitals units across India include awareness sessions on health and wellbeing, free clinics in various public locations, and engagement with corporates, the government, and schools and colleges.

Apollo Foundation runs regular awareness campaigns, facilitate surgeries and treatments, and conduct health camps in both urban and rural areas in an on-going effort to raise awareness about the value of health and wellness amongst India's diverse population, and for enabling healthcare equity across the various socio-economic groups in the country. In the year 2020 over 83,000 individuals have been served.

## Indraprastha Apollo Hospitals, Delhi

The CSR division at Indraprastha Apollo Hospitals is focussed towards providing health care for women and children of underprivileged communities, as well as the frontline workers of the Forest Department.

In the year 2020, more than 13,000 people benefitted from the activities.



General health check-up camp

## Apollo Hospitals, Hyderabad

The CSR division of Apollo Hospitals in Hyderabad focuses on providing medical care for the people from underprivileged communities through health camps and awareness workshops. In the year 2020, it has conducted health talks and health camps benefitting over 240 elderly and children.



*General health check-up camp*

## Apollo Hospitals, Chennai

Apollo Hospitals, Chennai, CSR operates daily free clinics and 24X7 emergency care centres for underprivileged people at the various centres of Apollo Hospitals in Chennai. The free medical services are provided throughout the year and patients with generic health issues are given treatment at the clinics and emergency centres. Serious cases such as polytrauma, cardiac, and neurological issues are provided further treatment

at the hospital or are referred to other hospitals. In the year 2020, over 4600 patients were provided free health checks, treatment, medicines, surgeries and hospitalization when required, through these centres in Chennai.



*Free medical services for with severe illness*

## Billion Hearts Beating Foundation

Billion Hearts Beating Foundation is a not-for-profit organization that works with the objective of providing healthcare and health awareness to the underprivileged communities in India.

The programmes are run for the underprivileged elderly living in old age homes and children living in orphanages. Also included are the NGO schools in Tamil Nadu, Karnataka, Andhra Pradesh, Telangana and Delhi NCR. Through health programs such as the Old Age Home Program, Childrens' Program, Basic Life Support Training and Awareness Sessions, the foundation provides free health checks, awareness workshops, medicines and other healthcare amenities distribution drives. The program serves 130 Old age homes, 30 Children's homes and 13 NGO schools.

During the COVID-19 crisis, Billion Hearts Beating Foundation distributed various essential healthcare items such as reusable masks, gloves, disinfectants, digital infrared thermometers and pulse oximeters to the old age homes and children's facilities.

- More than 15,000 reusable face masks were provided to old age homes and children's facilities. These face masks were made by the Aragonda Vikas Trust Women which supports sustainable livelihood and women empowerment.
- Billion Hearts Beating Foundation continued its support to elderly residents and children through its Monthly Medicine Distribution Drive.
- 1,74,000 multivitamin and zinc tablets along with ongoing regular medications were supplied to 130 Old age homes across India to boost immunity.

In the year 2020, Billion Hearts Beating Foundation has benefitted over 10,500 underprivileged people through these initiatives.



*Camp for senior citizens*



*General health examination for the children*

## WWF-AHCT Activities

In 2016, Apollo Hospitals Charitable Trust (AHCT) partnered with World Wildlife Fund for Nature (WWF) India to provide specialized health care to the Forest Department staff and field guards in case of medical emergencies (injuries/diseases) while on duty. The field staff who are not employed under the forest department but volunteer their services to patrol the forest areas, prevent poaching and protect endangered species, are particularly vulnerable. This partnership helps to provide medical treatment to them and save their lives. Patients were treated under this agreement in Apollo Hospitals, Guwahati. Specialised medical treatment and surgeries helped the injured forest guards heal and return to work after recovery.

## Apollo Foundation Health Camp at International Yoga Festival, Rishikesh, Uttarakhand

The Apollo Foundation organised a health camp at the prestigious International Yoga Festival in Rishikesh, Uttarakhand in March 2020. Yoga practitioners, students and tourists from all over the world participated in this festival.

The Apollo Foundation Health Camp provided much needed health services including blood tests for haemoglobin, blood sugar, blood pressure monitoring, bone mineral density test, ECG, doctor consultation and supply of essential medicines and vitamins.



A health camp for the underprivileged was also conducted in a government school.



Health Camp at International Yoga Festival

## Apollo Total Health

It is important to look beyond the confines of the medical science to understand what it takes to create a healthy population. Put simply, it includes the five key areas - (a) access to healthcare, (b) food

and nutrition, (c) water, sanitation and infrastructure development, (d) education, employment and skills development (e) physical activity. In the year 2013, Dr Prathap C Reddy envisioned and initiated the pilot of a 'population health model' under the aegis of the Total Health Foundation in his native place the village of Aragonda, Thavanampalle Mandal of Chittoor district, Andhra Pradesh.

The pilot started in 2013, covered 195 villages and introduced a population health paradigm which provided 'holistic healthcare' for the entire community of about 60,000 rural people of all age groups.

Total Health aims to provide "Holistic Health Care" for entire community, starting from birth, through journey into childhood, adolescence, adulthood and the sunset years of life. In other words, "Total Health" connotes "total well-being" of an individual inclusive of physical, mental, social, ecological and spiritual health and more importantly it transcends the barriers and caters to the health care requirements and aspirations of the community through their journey from "womb to tomb".

The "Total Health" program promotes a healthy and happy living atmosphere through promotion and protection of health, prevention of diseases, provision of hygienic, nutrition, supplements, and sanitation, potable water, education, livelihoods, kitchen gardens, protection of ecological balance and need based community infrastructure development. This program paved the way for identifying the diseases at the early stage through screening and facilitated in extending timely treatment to save lives.

The program had started with a baseline household door to door arduous survey to study the health, social and economic status of the community. The health survey instrument was based on World Health Organization's "STEP" approach. It covered more than 31354 people and classified them according to their ten-year risk of developing a Non-Communicable Disease (NCD).

It further divided individuals into three groups of low risk, moderate risk and high risk. They are being followed up further through investigations, counseling and medication through “Mobile and Satellite Health Clinics of Total Health”.

For the benefit of the community, Total Health also conducts health screening programs for cancer, Non-Communicable Diseases (NCD) and screening for eyes. Various community development activities linked with women empowerment and livelihood support are also organized.

The various programs include:

## Health

- **General Healthcare** - Health care services are provided to 32,000 members in 195 villages along with basic investigations. Regular follow up is provided to 1750 diabetic and hypertensive patients. Their values were kept in control through investigations, medication management, counseling and life style modifications.



General Healthcare Camp for Diabetic and Hypertensive Patients

- **Household Survey** - The survey captures the socio-demographic data, behavior risk data,

physical metrics and surveillance for NCD risk factors. From the year 2013 to 2019, 31354 members of the community were covered for general health screening during this door-to-door survey



General Health Screening during door-to-door survey

- **Mobile Clinics** - The mobile clinics provide primary medical care, basic investigations, pharmacy, health education, referral services and other essential services. These clinics are equipped with a medical laboratory and pharmacy. The two mobile clinics are currently providing health services in 93 villages across 32 Gram Panchayats with a population of 51564 in the Mandal.



Mobile Clinics

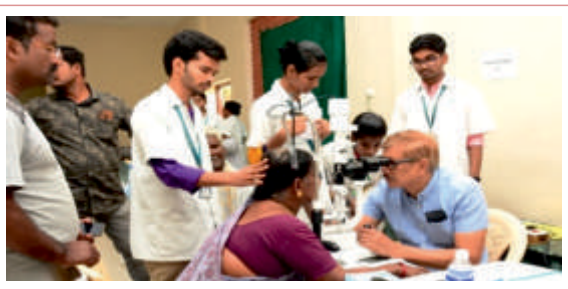
- **Satellite Clinics**- Total Health runs Satellite Clinics to provide the essential primary medical health care services for a population of 35199 in 7 to 10 Gram Panchayats. It serves the needs of individuals with NCDs and other medical ailments. The two satellite clinics have the necessary outpatient health care facilities



Satellite Clinics

- **RNTCP (Revised National Tuberculosis Control Programme)** - Of the 1185 patients who underwent investigations in the DMC (Designated Microscopic Centre) at Aragonda Hospital. Eighty six patients were found to be sputum positive and were referred to the DTOs (Directly Observed Treatment, Short Course) where DOTS was initiated and Total Health followed up for treatment adherence. Four cases of HIV were identified and referred to the District Counseling Center.

- **Eye Screening Camp-** Over 3583 individuals were screened. Intraocular Lens (IOL) surgery was performed for 334 patients. Over 1459 patients were provided corrected spectacles after refraction.



Eye Screening Camp

- **Diabetic Special Camps-** These have been launched with the aim of providing cost-effective case management, follow-up, prevention and early detection of disease. Over 240 patients benefited from this initiative.
- **General Health Screening-** Over 9795 patients were screened by Medicine, Obs and

Gynae, Orthopedics, Ophthalmology, Pediatrics specialists and managed appropriately through tracked referrals.



General Health Camp

- **Cancer Screening-** Over 5391 rural women were screened for cancer and 17 early cancer cases (cervix and breast) diagnosed and managed with appropriate health intervention services free of cost.



Cancer Screening Camp

- **School Health-** School health screening was carried out for 6906 school students in all Government schools and Anganwadi centres in Thavanampalle mandal. Eight students with ASD/VSD were detected and appropriate interventions were made free of cost at Apollo Hospitals in Chennai and Nellore. Infrastructure support was provided to schools such as furniture, toilet upgradation, painting, plastering and horticulture maintenance.





*School Health Check-up for Children*

- **Awareness on health education-** Awareness and education sessions for health and social issues were conducted for the community.



*Awareness and Education Sessions*

## Nutrition

- **Nutrition Centers for Pregnant and Lactating Mothers-** There are six nutrition centers and where over 485 beneficiaries obtained supplementary nutritious food along with health care services and institutional deliveries.



*Supplementary Nutrition And Yoga Session For Pregnant and Lactating Women*

- **Geriatric Nutrition Centre-** There are three geriatric nutrition centres with 149 beneficiaries getting mid-day meal along with health care services.



*Supplementary Nutrition for Elders*

- **Geriatric Day Care Centre-** The Elderly Day Care Centre at Aragonda has facilities for indoor games, TV, newspaper reading and skills development



Activities at Geriatric Day Care Centre

- **MAM and SAM (Moderate Acute Malnutrition and Severe Acute Malnutrition) Project-** Support to 149 anemic mothers and 169 children at Anganwadi centres was provided through ICDS (Integrated Child Development Scheme), Bangarupalyam.



Distribution of essential food for malnourished Children and Anemic Mothers

### Impact

For 149 pregnant women:

- Baseline average weight was 50.5 Kgs and Hb-9.53 Gms/dl improved after 5 months to weight of 57.31 Kgs and Hb-10.61 Gms/dl

For 169 children (MAM):

- Baseline average weight was 10.45 Kgs and height of 81.63 cms. This improved after five months to an average weight of 11.90 Kgs and height of 85.28 cms

### Livelihood

- **Tailoring Skills Program-** This includes courses designed to train the women on making jute products and apparels. Over 360 individuals have been trained in tailoring out of which 70 rural women have been employed in Total Health for manufacturing of jute bags and earning an additional income.







*Skill development activities at Total Health*

- **Handmade Paper Bags Training and Sanitary Napkin Making Unit-** Two units have been set up so that the women working in these units can earn an additional income.



*Handmade paper bags training at Total Health*

- **Refrigeration and Air Conditioning Skill Training Centre** – This unit has been established in collaboration with Blue Star India Ltd. Six batches with 92 trainees have been successfully trained.



*Refrigeration and air-conditioning repair training at Total Health*

## Lifestyle

- **Yoga** - As a part of life style modification, yoga has been introduced in the rural community of Thavanampalle Mandal. Over 1960 beneficiaries in 25 Gram Panchayats are being covered. It has been introduced in government schools as well.



*Community programme for Yoga*

- **Sports and Cultural Activities** - Promotion of rural sports and formation of youth network has been undertaken to promote local sports games and bring social integration for a healthy younger generation.



*Cultural and sports activities*

## Water and Sanitation

- **Potable Water Units** - Over 30,000 people in 50 habitations have benefitted from the 13 'Rapid Sand Filter Water Plants'

The water plant has been installed on the panchayat land and has been handed over to the panchayat for running and maintenance. An auto rickshaw has been provided for delivering water to individual households on demand. More than 350 families are consuming the purified drinking water at Aragonda



*Rapid Sand Filter Water Plants at Aragonda*

- **ISL Support** - Over 817 families benefitted from ISLs. More than 2,600 households at Aragonda Gram Panchayat were provided dustbins and were educated on their usage.



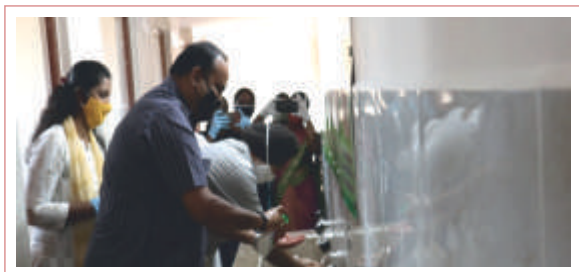


ISL Support



Swatch se Swatch Bharat - dustbin program

- **School Sanitation Support** - Supported toilet construction, renovation and housekeeping for ZPH Boys School, ZPH Girls School Aragonda, MPP School, Aragonda, MPP School, Thodathara



Construction of Toilets at Z.P.H.S Boys and Girls School

## Environment

- **Kitchen Gardening**- More than 7552 families have benefitted from non-pesticide kitchen garden. There has been an emphasis on using papaya and drumstick leaves.



Kitchen Gardening Program

- **Saplings Plantation Program**- Planted about 37529 saplings in the last 12 months with community mobilization.



Saplings Plantation Program

- **Solar Street Lamps-** In order to improve the supply of electricity and lighting of roads/public places, Total Health sponsors and maintains 35 solar street lamps in and around Aragonda in partnership with Philips.



*Installation of Solar Street Lights*

- **Agriculture-** A poly house was setup. The first crop was english cucumber and later bell pepper was planted. Local farmers were motivated for alternate farming practices with multi crop focus. Farmer meetings along with bank officials were organized.



*Agricultural Program*

## School Initiatives

The following initiatives were undertaken:

- Note Books Distribution to Thavanampalle Mandal School Children's.



- Conducted WOW (Well-Being Out of Waste) Program at the Thavanampalle Mandal School



- Conducted Training of Trainers (ToT) Program for School Teachers







## Collaboration with National Jute Board, Government of India

Total Health has been shortlisted for Jute Integrated Development Scheme by the National Jute Board.



Integrated Development Scheme by National Jute Board

## Arogya Rakshak

This project has been launched in partnership with Reckitt and Benckiser (RB). The project focuses to improve the behaviour among school children with regard to hand hygiene and personal hygiene. It also aims to strengthen infection control practices in rural health clinics and also supports nutrition centres for pregnant, lactating mothers and the elderly.



Launching of Arogya Rakshak Project

## Launch of Case Study on the “Total Health” Program by HARVARD T.H. Chan, School of Public Health, USA

Harvard T.H. Chan School of Public Health – India Research Center and Harvard T.H. Chan School of Public Health launched a Case Study on Total Health Program. This was led by Prof. Richard Siegrist, Senior Lecturer on Health Care Management, and Faculty Director for the DrPH Program, Harvard T.H. Chan School of Public Health.

The webinar on the launch was hosted by Dean Michelle Williams, Dean of Faculty, Angelopoulos Professor in Public Health and International Development, Harvard T.H. Chan School of Public Health and Harvard Kennedy School; Dr. K. Viswanath, Lee Kum Kee Professor of Health Communication, Harvard T.H. Chan School of Public Health. The leadership from Apollo Hospitals Group comprised of Dr. Prathap C. Reddy, Chairman; Ms. Suneeta Reddy, Managing Director; and Dr. Sangita Reddy, Joint Managing Director, Apollo Hospitals Group.





## Fight Against Covid-19

The following were the initiatives launched:

- Manufacturing of PPE kits and masks.



Women at the skill center stitching masks and PPE kit for COVID protection

- Distribution of Groceries and Vegetables in the Aragonda Gram Panchayat



- Provision of Health Services to the Community during the Pandemic



- Awareness Sessions Conducted at Red Zone Containment area





Awareness Session at Red Zone Containment Area

# Academics

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# Academics

## Post Graduate Medical Education in Apollo Hospitals

| Royal College Courses (UK)                         | National Board of Examinations | Indian Society of Critical Care Medicine  | MedVarsity  |
|--|--------------------------------|---|---|
| Member of Royal College Emergency Medicine (MRCEM) | DNB /FNB Programs              | Indian Fellowship in Critical Care Medicine (IFCCM)<br><br>Indian Diploma in Critical Care Medicine (IDCCM) | Fellowship in Emergency Medicine (Royal Liverpool Academy, UK)<br><br>Fellowship in Clinical Cardiology<br><br>Masters Class- Diabetes Mellitus (Royal Liverpool Academy, UK) |

## DNB/FNB Programs

Apollo Hospitals conducts the largest Diplomate of National Board (DNB) and Fellowship of National Board (FNB) programmes in the country. These programmes are run under the aegis of National Board of Examinations.

As of 31st December 2020 there were 967 DNB/FNB candidates in 14 Apollo Hospitals. The 599 seats, that were available in 2019 for DNB/FNB program at Apollo Hospitals, were scaled up to 612 seats in 2020. The aim is to increase the number of specialties/ seats by one-third each year for the next 3 years. Indraprastha Apollo Hospitals, Delhi started new FNB courses in Arthroplasty.

The NBE has accredited Apollo Hospitals for training and examinations in 15 Broad Specialities, 21 Super Specialities and 8 Postdoctoral Fellowship (FNB) programmes

The National Board of Examinations (NBE) has granted accreditation to the following DNB/FNB programs at different locations of Apollo Hospitals:

| Broad Specialities |                      |
|--------------------|----------------------|
| 1.                 | Anaesthesiology      |
| 2.                 | Emergency Medicine   |
| 3.                 | ENT                  |
| 4.                 | Family Medicine      |
| 5.                 | General Medicine     |
| 6.                 | General Surgery      |
| 7.                 | Nuclear Medicine     |
| 8.                 | Obst and Gynae       |
| 9.                 | Orthopaedics         |
| 10.                | Pathology            |
| 11.                | Paediatrics          |
| 12.                | Radiodiagnosis       |
| 13.                | Radiotherapy         |
| 14.                | Respiratory Diseases |
| 15.                | Transfusion Medicine |

| Fellowships (FNB) |  |
|-------------------|--|
| 1.                | Minimally Access Surgery                   |
| 2.                | Paediatric Haemato oncology                |
| 3.                | Infectious Diseases                        |
| 4.                | Interventional Cardiology                  |
| 5.                | Paediatric Gastroenterology                |
| 6.                | Liver Transplantation                      |
| 7.                | Arthroplasty                               |
| 8.                | Cross Sectional and Body Imaging Programme |

| Super Specialties |                                     |
|-------------------|-------------------------------------|
| 1.                | Cardio Thoracic Surgery             |
| 2.                | Cardiology                          |
| 3.                | Endocrinology                       |
| 4.                | Gastroenterology                    |
| 5.                | Genito Urinary Surgery (Urology)    |
| 6.                | Medical Oncology                    |
| 7.                | Nephrology                          |
| 8.                | Neuro Surgery                       |
| 9.                | Neurology                           |
| 10.               | Vascular Surgery                    |
| 11.               | Paediatric Surgery                  |
| 12.               | Plastic Surgery                     |
| 13.               | Rheumatology                        |
| 14.               | Surgical Gastroenterology           |
| 15.               | Surgical Oncology                   |
| 16.               | Cardiac Anaesthesia                 |
| 17.               | Paediatric Cardiology               |
| 18.               | Neuro Anaesthesia and Critical Care |
| 19.               | Hematology                          |
| 20.               | Critical Care Medicine              |
| 21.               | Paediatric Intensive care           |

| DNB/FNB proposed to NBE in 2020 |  |
|---------------------------------|--|
| 1.                              | Anaesthesiology for Minimal Access Surgery |
| 2.                              | Bariatric and Metabolic Surgery            |
| 3.                              | Paediatric Urology                         |
| 4.                              | Fetal Medicine                             |
| 5.                              | Molecular Biology                          |
| 6.                              | Clinical Immunology                        |
| 7.                              | Disaster Management                        |
| 8.                              | Geriatrics                                 |

## Apollo Clinical Knowledge Network (ACKN)

ACKN has been instituted in order to create a knowledge center for an academic exchange across different Apollo Hospitals. Weekly clinical meetings are conducted for Consultants, DNB trainees and Junior Medical Staff across the Group, Medvarsity serves as the connectivity engine for ACKN. The various locations of Apollo Hospitals Groups connect every week to enable consultants to become a part of clinical knowledge enhancement. The clinical presentations are made by consultants from individual Apollo Hospitals locations and are transmitted live across the Apollo Group. The case deliberations are recorded by Medvarsity and made available 24X7 to any clinical staff who might have missed the session.

The DNB/FNB Academic Coordinators of each unit are the single points of contact. To build a culture of multi-disciplinary clinical deliberations, these clinical meetings are organized with each of the NBE approved hospitals by rotation.

In the academic year 2020 a total number of 38 presentations were conducted by 14 locations of Apollo Hospitals accredited by the National Board of Examinations.



Following is the list of Clinical Presentations which were held in 2020

| Apollo Hospitals Locations | Speaker  | Topics   |
|----------------------------|--|--|
| Pune                       | <b>Dr Chaitnya</b><br>DNB Resident<br><b>Dr Anjali</b><br>DNB Resident<br><b>Dr Anjana</b><br>DNB Resident<br><b>Dr Sarita Kulkarni</b><br>Senior Consultant – Internal Medicine<br><b>Dr Uma Diwate</b><br>Senior Consultant –Medicine<br><b>Dr Shweta Lunkad</b><br>Consultant- Hematology<br><b>Dr Kannan</b><br>Consultant - Onco Hematology | Case series of febrile illness with pancytopenia   |
| Madurai                    | <b>Dr Vani</b><br>Senior Consultant - General Medicine   | Two interesting cases of Scrub Typhus  |
| Hyderabad                  | <b>Dr Naveen Polavarapu</b><br>Consultant - Gastroenterology   | Liver failure- how do you manage?  |
| Chennai                    | <b>Dr Ramgopalakrishna</b><br>Senior Consultant- Infectious Diseases   | CPC  |
| Kolkata                    | <b>Dr Manash Saha</b><br>Senior Consultant- Vascular and Non-vascular Intervention   | Case 1- Hematuria with severe myelosuppression<br>Case 2 - Treating symptomatic DVT & PE<br>Case 3 - Functioning AFV with distal ischaemia in a case of CKD on MHD |
| Ahmedabad                  | <b>Dr Manjulata Anchalia</b><br>Senior Consultant - General Surgery<br><b>Dr Swati Upadhyay</b><br>Senior Consultant - General Surgery<br><b>Dr Mohit Dahiya</b><br>DNB Resident   | Negative pressure wound therapy in complex wounds  |
| Bhubaneswar                | <b>Dr Sidhartha Mohanty</b><br>Senior Consultant - Anaesthesia<br><b>Dr Vinod Kumar KV</b><br>DNB Trainee  | ECG Guided Central Venous Cannulation  |

|           |   |   |
|-----------|---|---|
| Vizag     | <b>Dr Srinivas Nistala</b><br>Consultant - Medical Gastroenterology                                     | Management of periampullary carcinoma with failed ERCP  |
| Bangalore | <b>Dr Amitha Vikrama K S</b><br>Senior Consultant- Interventional Radiology                             | Management of post Whipples bleeder from portal vein pseudoaneurysm in an elderly male  |
| Bilaspur  | <b>Dr Ashish Jaiswal</b><br>Senior Consultant - Spine Surgery   | An unusual presentation of a case of bullet injury in abdomen with neurological deficit   |
| Madurai   | <b>Dr A Suresh Kumar</b><br>Senior Consultant - Minimal Access Surgery                                  | An unusual case of intestinal obstruction   |
| Mysore    | <b>Dr Narayan Hegde</b><br>Senior Consultant - Plastic and Reconstructive surgery                       | Upper limb re plantation and difficult reconstruction   |
| Guwahati  | <b>Dr Roshan Agarwalla</b><br>Consultant - Gastroenterology   | Laparoscopy assisted endoscopic management of hepaticojejunostomy site structure and case 2 : An unusual case of gastrointestinal polyposis |
| Mumbai    | <b>Dr Abhijit Bagde</b><br>Consultant - Paediatric Intensivist  | TB or not TB  |
| Pune      | <b>Dr Vikash Yogendra Ojha</b><br>Consultant - Radio-diagnosis  | Imaging in solitary Pulmonary nodule (SPN)  |
| Delhi     | <b>Dr Neerav Goyal</b><br>Senior Consultant - Liver Transplantation                                     | Tips and tricks in extended Right and left hepatectomies  |
| Hyderabad | <b>Dr Sai Praveen Haranath</b><br>Senior Consultant - Pulmonology and Intensivist                       | Approach to managing spontaneous pneumothorax in young men and women  |
| Delhi     | <b>Dr Arun Prasad</b><br>Senior Consultant - Surgery  | Interesting cases of Robotic Surgery during COVID times   |
| Ahmedabad | <b>Dr Aashka Ponda</b><br>DNB Resident<br><b>Dr Sucheta Mudgerikar</b><br>Senior Consultant – Neurology | A rare neurological entity called CLIPPERS- case presentation and discussion  |

|               |   |  |
|---------------|---|--|
| Kolkata       | <b>Dr Debraj Jash</b><br>Consultant - Pulmonology   | Case based discussion on Endobronchial luminisation  |
| Delhi         | <b>Dr O P Sharma</b><br>Senior Consultant - Geriatric Medicine  | Vaccination in older adults  |
| Bhubaneswar   | <b>Dr Sanjeev Patnaik</b><br>Senior Consultant - Orthopaedics   | Coxo-femoral bypass in comminuted unstable, osteoporotic intertrochanteric femur fractures   |
| Visakhapatnam | <b>Dr A Suresh</b><br>Consultant - Interventional Cardiology and Electrophysiology                      | Radiofrequency ablation in tachycardiomyopathy   |
| Bangalore     | <b>Prof. S Narasimhaiah</b><br>Senior Consultant - Head of Colorectal Surgery and Robotics              | Colonic adenocarcinoma misquandering as Crohn's mass, stricture perforation and multiple fistulae: A minimally invasive approach to a maximal excision surgery |
| Bilaspur      | <b>Dr Gouri Shankar Asati</b><br>Senior Consultant -Orthopaedics and Joint Replacement Surgery          | Meticulous planning makes things easy  |
| Madurai       | <b>Dr Ravindran</b><br>Consultant - Anaesthesiology<br><b>Dr Abarna</b><br>Consultant - Anaesthesiology | Morbidity and mortality due to lingering pulmonary fibrosis in patients who had COVID-19   |
| Mysore        | <b>Dr Satish H V MS</b><br>Consultant - Plastic Surgeon   | Changing Faces; Changing Lives   |
| Guwahati      | <b>Dr Kripesh Ranjan Sarmah</b><br>Consultant - Pulmonary, Critical Care and Sleep Specialist           | Pathophysiology of Sleep Disorder Breathing  |
| Navi Mumbai   | <b>Dr Jayalakshmi T K</b><br>Senior Consultant - Pulmonology  | Complicated case of foreign body removal in Bronchus intermedius   |
| Pune          | <b>Dr Sagar Lad</b><br>Senior Consultant - Neonatology and Pediatric Intensivist                        | Covid 19 in Children   |

|             |   |   |
|-------------|---|---|
| Hyderabad   | <b>Dr Soumen Devidutta</b><br>Consultant - Cardiac Electrophysiology                      | Physiological pacing; a revolutionary advancement poised to become the future of pacemakers |
| Chennai     | <b>Dr Roopesh Kumar</b><br>Senior consultant - Neurosurgery                               | Unusual Brain stem tumours - Surgical Challenges and outcome                                |
| Delhi       | <b>Dr Arun Prasad</b><br>Senior consultant - Minimal Access Bariatric and Robotic Surgery | Changing clinical practice during Corona - Case capsules                                    |
| Kolkata     | <b>Dr Shantanu Panja</b><br>Consultant - ENT and Head and Neck Surgery                    | Lockdown diaries: Successful management of complex surgical cases during COVID times        |
| Ahmedabad   | <b>Dr Sanjay Shah</b><br>Consultant - Trauma Surgery                                      | Outcome in severe chest wall mucor  |
| Bhubaneswar | <b>Dr Nihar Mohanty</b><br>Senior consultant - Radiology                                  | Bi-RADS for mammography and sonomammography   |
| Vizag       | <b>Dr Anitha Kolukula</b><br>Consultant - Internal Medicine                               | Adult immunization  |
| Bangalore   | <b>Dr Adoor Gurucharan</b><br>Consultant - Neurology                                      | Interesting case of rapidly progressing coma  |
| Bilaspur    | <b>Dr R L Bhanja</b><br>Senior consultant - Cardiology                                    | Case presentation   |
| Madurai     | <b>Dr S Meenakshi Sundaram</b><br>Senior Consultant - Neurology                           | Journey of stroke thrombolysis with illustrious cases from a humble beginning               |

## Medvarsity Online

Medvarsity Online is Asia's largest healthcare Ed-Tech company, with over 3 lakh medical professionals trained and certified. It offers more than 160 courses in clinical and management areas for doctors, nurses, and general management personnel, including specialties such as Diabetes Mellitus, Emergency Medicine, Cardiology, Critical

Care Medicine, Pediatric, Internal Medicine, Gynecology, Nutrition, Wellness, Healthcare Informatics, Digital Health, Mental Health, NABH, accreditation, healthcare and hospital management and telemedicine. The clinical courses are exclusively designed by doctors, for doctors, whereas, the non-clinical courses are designed by industry experts from leading universities. Medvarsity partnerships with leading universities globally enabled them to present the

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

best courses and faculty to the students and help them meet their learning goals. Medvarsity's vision to "Impact Healthcare Through Education" is being led by a team of 200 professionals including doctors, management professionals, designers, storytellers and technologists.

## Partnerships, initiatives and impact created by Medvarsity in 2020

1. Medvarsity dedicated an online certificate course on the awareness and management of COVID-19 in partnership with FICCI and NATHEALTH. As a leader in healthcare education-technology, Medvarsity decided to dedicate an online course on COVID-19 to all those who wanted to know more about the disease and how to manage it. Over 1.5 lakh people across 120 countries contributed to this initiative by completing this course.

2. The Indian Society of Critical Care Medicine (ISCCM) partnered with Medvarsity to reach out and train 1 lakh doctors on ventilator management. This initiative was able to improve the clinical outcomes of patients across the country.

3. Medvarsity launched a just in time online medical learning platform-Dosily.com, to enable continuous development and learning of healthcare professionals, on-the-go in this digital world. Dosily offers 700 courses across 25 specialities.

4. Academic partnership with Association of Family Physicians of India (AFPI), International Society for Quality in Healthcare (ISQua) and College of Healthcare Information Management Executives (CHIME) were initiated. These partnerships aim to bring more value to the Medvarsity community and the specialized area of healthcare.

5. Clinical training partnership was initiated with Asgar Ali Hospitals, Bangladesh, Apollo Adlux, Cochin, Medcover, Nasik, NM Wadia Institute of Cardiology, Pune, Amara Hospitals, Tirupati and Chandan Hospitals, Lucknow.

6. With the goal of enabling a significant number of Indian doctors to get better trained and equipped to use ventilators during the COVID-19 crisis, Medvarsity partnered with the Boston Children's Hospital (BCH) and their ventilator simulator. Boston Children Hospital (BCH) through its OPEN Pediatrics Program has developed one of the best and acclaimed online ventilator simulators.

7. Medvarsity partnered with NIIT Foundation to launch an initiative towards educating . The public preparing the healthcare workforce in response to COVID-19. The project has been designed for rural and semi-rural graduates and undergraduates who aspire to work in the healthcare industry.

8. Medvarsity collaborated with IQVIA, a leading global provider of advanced analytics, technology solutions and contract research services in the life sciences industry. The aim was to provide healthcare professionals (HCPs) with flexible, on-demand medical e-training solutions through IQVIA's collaborative learning platform to support training compliance.

9. Medvarsity trained and certified over 400 nursing professionals across the Apollo Hospitals, on ATI nursing skills.

10. Medvarsity went live with Global Healthcare Archives, a weekly video roundup of all global healthcare news updates. The 19 episodes in 2020 clocked over 15000 hours of viewing time, globally.

11. Partnered with leading financial institutions like Moneytap, Liquiloans and Techfno, to simplify the process of education loans. This allowed students to spend more time focusing on their course, and less time worrying about how to finance it.



## Medvarsity courses launched in 2020

In the year 2020, 25 clinical and non-clinical courses were launched:

| FELLOWSHIP COURSES  |
|---|
| Fellowship in Family Medicine - Edition II                                      |
| Fellowship in Critical Care Medicine - Edition II                               |
| Fellowship in 2D Echocardiography - Edition II                                  |
| Fellowship in Digital Health  |
| Fellowship in Clinical, Preventive and Non-Invasive Cardiology - 2nd Semester   |
| MASTERCLASS COURSES   |
| Masterclass in Clinical Oncology  |
| Masterclass in Healthcare Quality   |
| Masterclass in Digital Health   |
| ADVANCED AND SPECIALIST CERTIFICATE COURSES                                     |
| Advanced Certificate in Critical Care Medicine - Edition II                     |
| Advanced Certificate in Digital Health  |
| Specialist Certificate Course in Healthcare Quality                             |
| Specialist Certificate Course in Patient Safety                                 |
| Specialist Certificate Course in Medication Safety                              |
| CERTIFICATE COURSES   |
| COVID-19: Certificate on Clinical Management                                    |
| COVID-19 : Awareness and Management ( in 6 Indian languages)                    |
| Certificate Course on COVID 19 Telemedicine Practice                            |
| Certificate Course in Mechanical Ventilator                                     |
| Certificate Course in Gynecology and Obstetrics                                 |
| Certificate Course in Digital Health  |
| Certificate Course in Mental Health   |
| Certificate Course in Anxiety Disorder  |
| Certificate Course in Communicable Diseases                                     |
| Certificate Course in Adult Immunization  |
| Certificate Course in Influenza   |
| Certificate Course in Medical Toxicology  |
| Certificate Course in Clinical Oncology   |
| Certificate Course on General Practice  |
| Certificate Course in Intensive Care Echo and Basic Lung Ultrasound (ICE-BLU)   |
| Certificate Course in Ionizing Radiation Medical Exposure Regulations (e-IRMER) |

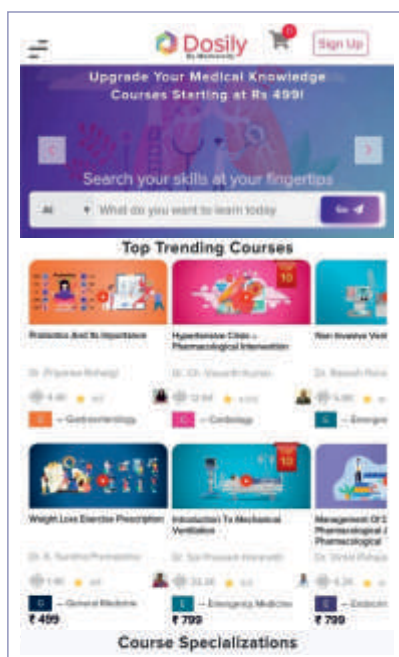
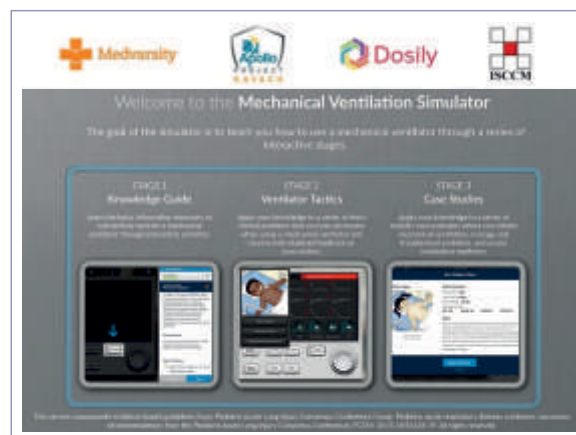
## Achievements in 2020

1. Medvarsity saw an increase in student enrolment as compared to previous year.
2. Over 7.90 lakh healthcare professionals visited medvarsity.com to explore healthcare courses of their choice.
3. Achieved more than 10 lakh views and 26,000 watch hours on YouTube channel. The content in the channel includes value proposition of the courses, expert advice for medical students, healthcare professionals, general public, student and alumni testimonials, latest news and updates on healthcare and medical education.
4. Organized 30 live webinars which were attended by 8000 healthcare professionals. Industry experts and key opinion leaders from the fields of cardiology, digital health, oncology, healthcare quality, digital pathology, family medicine, critical care medicine and nutrition interacted with the audience.
5. FICCI appointed the Chief Operating Officer, Medvarsity Online as the Co-Chair of FICCI Task Force on Ed-Tech 2021
6. Ventilator training was conducted by

Medvarsity and Dosily in association with Apollo and Indian Society of Critical Care Medicine (ISCCM).



7. Boston Children's Hospital Online ventilator Simulator programme was conducted on Dosily.com



## Apollo MedSkills

Apollo MedSkills was established by the Apollo Hospitals Group, with a mission to provide a competent workforce for the global healthcare industry. This was achieved by training and educating un-employed youth from the marginal income groups across the country and knowledge building of healthcare professionals including nurses and doctors through up-skilling programs.

Medskills training has transformed the lives and livelihoods of several thousands of youth and healthcare professionals by carving a career path

for every beneficiary and a stable financial support for their family. A number of technical partners, academic institution partners, assessment partners, placement partners have joined Medskills in this skilling journey for creating the greatest impact on the beneficiaries and their households.

Apollo MedSkills has skilled over 1500 COVID warriors who joined the healthcare sector as frontline healthcare workforce in the COVID Centers across the country, hospitals, clinics, diagnostic centers, home health agencies, emergency care, pharmacies, dialysis centers, for providing support in much needed care for patients.

Apollo MedSkills Limited has done substantial work on projects with the Government, public, private and people partnerships for capacity building of youth by providing quality education and job opportunities in the evolving healthcare sector.

## A. Expertise

- Knowledge building and knowledge dissemination
- Training and mentoring for holistic development
- Qualified and experienced trainers
- Allied, clinical and management programs exclusively for healthcare sector
- Equipping global healthcare sector with employable workforce
- Wide spectrum of programs for the evolving healthcare sector
- Working for academic, social and economic impact

## B. Skilling India

Demand for Healthcare professionals has significantly risen to the peak during pandemic. During the year 2020, technology played a vital role for enabling the connect with all the players including the beneficiaries. Apollo MedSkills continued to work with several ministries and departments in the central governments and state government. Medskills initiated many collaborations with healthcare skilling project sponsors, categorized under public sector institutions set up for focused communities, companies operating under public and private partnerships and corporates with CSR funds.

### Deen Dayal Upadhyay – Grameen Kaushalya Yojna (DDU-GKY)

Projects were operational across 10 states – Assam, Chhattisgarh, Gujarat, Jammu - Kashmir, Jharkhand, Madhya Pradesh, Meghalaya, Mizoram, Tamil Nadu and Uttar Pradesh. During the year, over 600 students were mobilized, enrolled and trained as General Duty Assistants, Emergency Medical Technicians, Pharmacy Assistants, Medical Lab Technicians, Nurse Assistants, Phlebotomy Technicians, Blood Bank Technicians, Geriatric Aide programs in a blended mode of learning.

### COVID 19 Pandemic - Rising Up to the Situation

Demand for frontline healthcare workers has been on the rise during the Covid-19 pandemic. Hundreds of trained candidates have been working as Pharmacy Assistants (PA), General Duty Assistants (GDA), Nurse Assistants, Lab Technicians and Emergency Care Assistants in the COVID-19 centers in hospitals notified by the government and private healthcare sectors across India.

### Saksham Bharat - RILM

This project is in association with RILM (Rotary India Literacy Mission) and aims at training and skilling over 40,000 youth across India in healthcare skills, thus providing them with

sustainable livelihoods. In the pilot project, over 100 candidates were enrolled, trained and certified in GDA and PA programs. Those who successfully completed the training joined healthcare institutions across India.

### Up-Skilling Healthcare Workforce - TASK

Over 8000 healthcare workforce in government hospitals across the Telangana state were trained on healthcare best practices as per the evolving needs of the patients and hospitals. Nurses, doctors and house-keeping staff in these hospitals learnt new skills for delivering high quality patient-care.

### More to Frontline Healthcare Workforce

Bosch India Foundation and Apollo MedSkills Limited collaborated for training over 1200 youth in Pharmacy Assistant and General Duty Assistant programs to become employable in the healthcare sector.

## C. Partners

Apollo MedSkills has partnered with diverse organizations from government to public and private sector organizations, universities and hospitals.

The global partners include:

- National Health Service - Health Education England (NHS HEE)
- University of Bolton, England

In India, Apollo MedSkills has partnerships with:

- Ministry of Rural Development
- National Skill Development Corporation (NSDC)
- National BC Finance Development Corporation
- National SC Development Corporation
- Healthcare Sector Skill Council (HSSC)
- The National Small Industries Corporation (NSIC)

- State Government and their Ministries
- Corporates - L&T; Niral
- Rotary India Literacy Mission (RILM)
- Bosch India Foundation

Academic institutional partners include:

- University of Hyderabad
- ICFAI-Sikkim

Apollo MedSkills has built a wide network of employer partners in the healthcare sector to recruit the Medskills trainees.

## D. Academics

During 2020, the MedSkills academic team focused on creating content for e-learning through a Learning Management Systems (LMS). A robust LMS platform was developed for facilitating ease of learning for beneficiaries. These initiatives of creating and adapting to online learning helped the students to engage with the best-of-the-industry curriculum. Topics included management, healthcare management, hospital management, hospital operations management and allied-healthcare topics relevant for taking up frontline healthcare roles.

| Online Trainings   |
|--|
| For General Duty Assistant                                   |
| For Pharmacy Assistant                                       |
| For Geriatric Aide   |
| For Home Health Aide   |
| Facility Management and COVID Operations                     |
| For Covid-19 Lab Technician and Assistant                    |
| Community Testing on Immunity Using Community Health Workers |
| For GDA-Immunization Assistant                               |
| COVID Coordinator Program                                    |

|   |
|---|
| Health Mentor Workshop  |
| Certificate Program in Pandemic Management                            |
| Medical Lab Technician – RPL Program                                  |
| Certification Program on Clinical Management of ncovid-19 for Doctors |
| General Duty Assistant – RPL Program                                  |
| Hospital Operations Management  |
| Diploma in Healthcare Management                                      |
| Diploma in Hospital Management  |

## E. Impact

The highest impact in the lives of the beneficiaries are observed when they have successfully completed their healthcare skills training and secured a job for themselves. Apollo MedSkills training programs, in collaboration with project sponsors are offered with placement support.

### COVID 19 – An Opportunity to Serve Humanity

Around 1500 of Apollo MedSkills students got engaged with employers and became a part of the front line work force as lab technicians, emergency medical technicians particularly in government run ambulance services. Majority of them served as assistants in critical care units, operation theatres, dialysis departments, emergency departments at hospitals across India. Close to 15000 jobs were aggregated during this pandemic period.

### Tech-enabled Placements Facilitation

During the COVID-19 lockdown, Apollo Medskills strengthened relations with employers across India due to the huge demand for a skilled workforce for the healthcare sector. Telephonic counselling for students was facilitated that motivated them to overcome the fear of joining healthcare due to the prevailing pandemic crisis. Better salary packages with employers were negotiated and interviews through virtual sessions scheduled to employ students. All these efforts enabled employers to engage a majority of trained students to serve the community as COVID

warriors.

### Example of students having achieved placement



*Sahil Murtaza, native of Jammu & Kashmir, placed as Dialysis Technician*



*Shahid Shafi, native of Jammu & Kashmir, placed as Dialysis Technician*



*Gita Kaiso, native of Assam, placed as Junior Assistant*



*Shabela Veerasamy, native of Tamilnadu, placed as Patient Care Assistant*



## Apollo Institute of Medical Sciences and Research (AIMSR)

The Apollo Institute of Medical Sciences and Research (AIMSR), has established itself as a medical college of national and global repute. The medical college is established at both Hyderabad and Chittoor, in the Andhra Pradesh/ Telangana region.



on experience. The hospital covers over 21 disciplines of medical and surgical specialties.



*Apollo Institute of Medical Sciences and Research, Chittoor*

### Education and Academics

1. The 1st batch of 31 postgraduates commenced their training at AIMSR, in the midst of the worst phase of the pandemic in July 2020.
2. AIMSR was one of the first medical colleges in the twin states, to immediately pivot to an online hybrid teaching model, within 24 hours of the announcement of the lockdown.
3. AIMSR received approval from the KNR University, for the enhancement of UG seats from 100 to 150, in August 2020, for continued commitment and dedication towards medical education.
4. Fifty percent of the alumni obtained post - graduate seats through the NEET and USMLE exams, bagging admission in esteemed institutions in the country.
5. University Examination 2020 was conducted for the batches of 2015, 2016, and 2017 with 96.4 pass percentage.

### Partnerships and Exchange Programs

AIMSR has membership of the US based VSLO (Visiting Student Learning Opportunities) and also coordinated a programme with Baylor University, Medical center (BUMC) regarding Clerkships in the US.



*Apollo Institute of Medical Sciences and Research, Hyderabad*

The Apollo Medical College, Hyderabad, is spread across ten acres of the Apollo Health City. The academic and research centers, administrative blocks and the 300-bedded teaching hospital, occupy nearly 250,000 square feet of the Apollo Medical College Campus.

The Apollo Institute of Medical Sciences and Research, Chittoor is developed across a 108 acres' campus with ultra-modern teaching facilities. The 850 bedded Chittoor Government District Hospital is now administered by the Apollo Institute of Medical Sciences and Research, Chittoor. The new upgraded hospital has state-of-art facilities with ICU's, casualty, laboratories of international standards, for students to get hands

## College Events and Activities

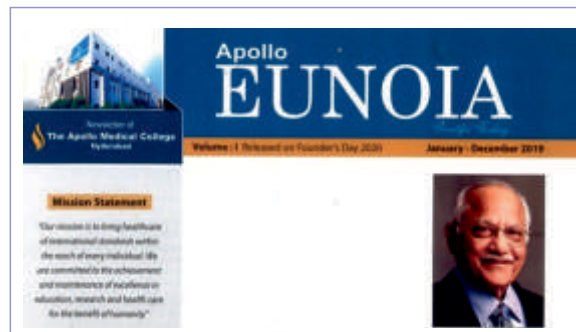
**National Conference of the Indian Academy of Forensic Medicine (IAFM)**- The year 2020 began with 41st National Conference of the Indian Academy of Forensic Medicine (IAFM) held at AIMSRS, by the department of Forensic Medicine and Toxicology, from 30th January to 1st February 2020. The conference was attended by several dignitaries, and esteemed doctors from across the country including the Governor of Telangana.



Chief Guest Honourable Governor of State of Telangana Dr. (Smt.) Tamsilais Soundararajan, Guest of Honours Sri Etela Rajender, Honourable Minister for Health Medical and Family Welfare Department, State of Telangana and Honourable Sri Justice A. Rajasheker Reddy, High Court for the state of Telangana, Dr Sangita Reddy, Joint Managing Director the Apollo Hospitals Group and other dignitaries during inaugural ceremony

**National Conference on Hospital Infection Control**- The Department of Microbiology also conducted a National Conference on Hospital Infection Control, from the 13th to 15th March 2020, which co-incidentally dovetailed with the advent of COVID in the country.

**The First Edition of College Newsletter "Apollo EUNOIA"**- Beautiful Thinking was released on Founder's Day 2020.



## Research, Grants and Publications

1. The institution received several grants for conducting research activities including collaborations with several national and international institutions. This includes the Mayo Clinic, University of New South Wales (UNSW), Indian Council of Medical Research (ICMR), DBT and others.
2. A total of 83 research papers were submitted. Out of these 47 were published and 36 awaiting status. The Research Committee received 69 proposals of which 38 were from the faculty. There were 31 PG student thesis proposals, which were received and approved.

## Faculty Awards and Achievements

1. Several of the faculty members served as university examiners in 12 other institutions, and are active members of various professional societies.
2. During the lockdown, the faculty participated in several online professional development programs. This included:
  - Certificate & E-learning Courses 18
  - Guest Speaker Sessions 26
  - Oral Presentations 21
  - Poster Presentations 21
  - Workshops 38
  - Webinars and Seminars 27

3. Medical Education Unit (MEU) conducted three meetings in 2020. One programme was conducted in 2020 for the pre and para clinical departments.

#### 4. Workshops

- Molecular Biology Techniques and a Bioinformatics Workshop for the faculty was organized
- CBME sensitization workshop (CISP) was organized

5. The following faculty members were conferred with appointments and awards:

- Professor Ram Reddy, HoD of Physiology, was appointed as Chairman of the Board of Studies, for the 1st MBBS curriculum of the KNRUHS, from 2020. The KNR University has adopted the AIMS CBME design study format state wide-across all in Medical Colleges of Telangana.
- Dr Neetha Mathur, Associate Professor of Community Medicine, was nominated as the Chairperson for Operational Research in Telangana state, under the National Tuberculosis Elimination Programme
- Dr Saju Binu Cherian, Associate Professor of Anatomy (FAIMER Fellow 2018), was appointed

as a Faculty Advisor, at the FAIMER International Institute for Leadership in Inter-Professional Education, at the Manipal Academy of Higher Education, Manipal

- Dr Rakesh, Associate Professor of ENT, received the membership of the Royal College of Surgeons (MRCS) as well as the Diploma of Otolaryngology – Head, DOHNS-UK and Neck Surgery in 2020

### Apollo Institute of Medical Science and Research Teaching Hospital

During the pandemic in 2020, RTPCR lab was set up and approved by ICMR and NABL. The faculty cared for over 1500 suspected COVID patients, of whom 345 cases were admitted with a recovery rate of over 93%. The remaining cases were managed at home or as outpatient. All departments and faculty providing care were nominated as COVID warriors.

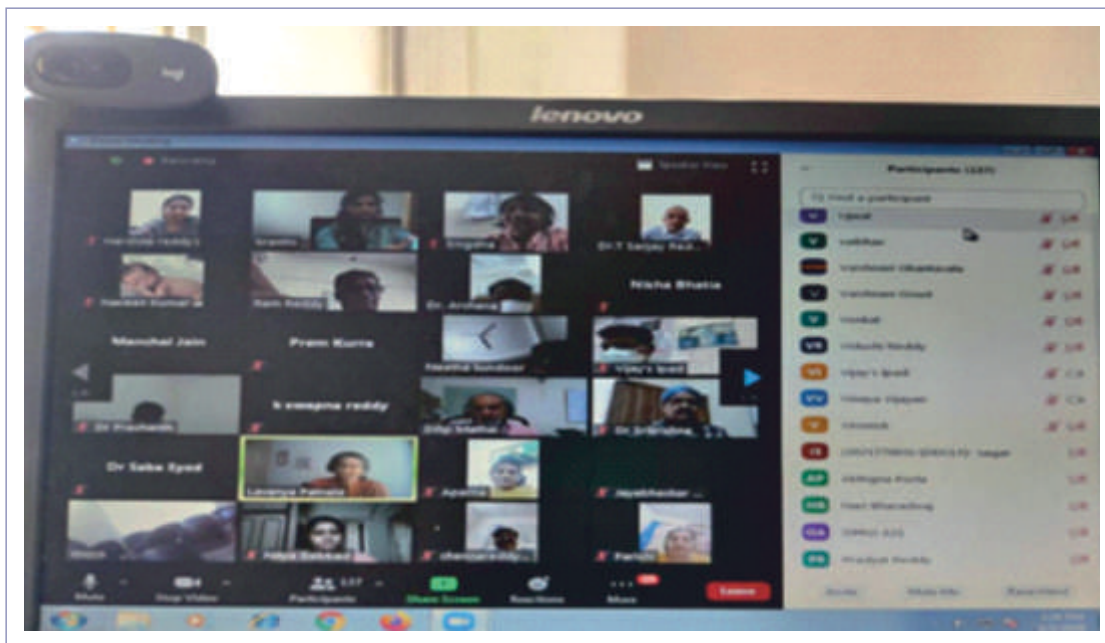
- Fourteen medical camps were conducted by the following specialties in and around the AIMS campus as part of hospital outreach program- ENT (6), Paediatrics (5) and Ophthalmology (3).



Medical camps were conducted at the AIMS Campus

2. The HR Department, during the pandemic organized fourteen virtual and in-person events with adequate social distancing. This was done to lift the spirits of staff and family,

which were dampened by the lockdown. A “Pot Luck” was arranged by the male employees for all the female employees of the institute.



*On the occasion of “Teacher's Day” in September, 600+ students connected with their teachers virtually for a greet and meet*

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
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# Recognition

Apollo Hospitals was recognised and felicitated at various national and international fora for their achievements and contributions, in the year 2020.

## Lifetime Achievement Award 2020

Dr Prathap C Reddy, Chairman, Apollo Hospitals Group was felicitated with the Lifetime Achievement Award at the 22nd EY Entrepreneur of Year Awards Programme.



Chairman, Dr Prathap C Reddy, Apollo Hospitals Group, felicitated with Lifetime Achievement Award

## ET Awards 2020

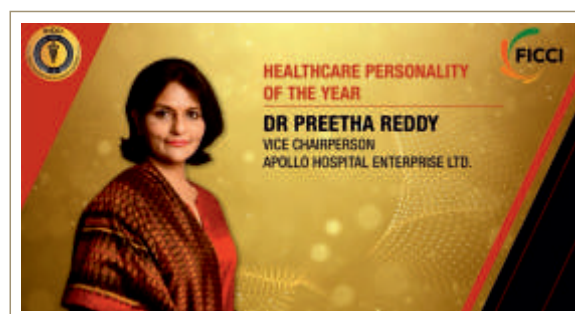
Ms. Preetha Reddy, Vice Chairperson, and Ms. Suneeta Reddy, Managing Director, Apollo Hospitals Enterprise Limited were honoured by Deloitte as the Business Women of the Year 2020. The Economic Times Awards for Corporate Excellence recognizes and honours the best and brightest of entrepreneurial and business success, along with policy and reform achievements.



Vice Chairperson, Ms. Preetha Reddy; Managing Director Ms. Suneeta Reddy, Apollo Hospitals Group were awarded as Business Women of the Year

## Healthcare Personality of the Year Award 2020

Ms. Preetha Reddy, Vice Chairperson, Apollo Hospitals Enterprise Limited was conferred with the 'Healthcare Personality of the Year Award' by FICCI Healthcare Excellence Awards.



Vice Chairperson, Apollo Hospitals Group, Ms. Preetha Reddy, awarded as the Healthcare Personality of the Year

## Guinness World Records 2020

The award was conferred on Apollo Jubilee Hills, Hyderabad for:

Most Live Viewers for female health awareness lesson on YouTube

Most Videos of people running/ jogging uploaded on Facebook in one hour



## Hospital Management Asia Award (HMA) 2020

The Asian Hospital Management Awards recognizes and honours hospitals in Asia that implement best practices. It is the accepted hospital management awards program for Asia Pacific Region.

The awards won by Apollo Hospitals were:

Category: Excellence Award for Patient Experience Improvement

**Apollo Hospitals Group - Re-Inventing the Patient Experience in A Post-Covid World"**

Category: Talent development

**Indraprastha Apollo Hospitals, Delhi - We Care for our Warriors**

## IHF-Beyond the Call of Duty for COVID 19 Award 2020

The International Hospital Federation (IHF) is a not for profit, non-governmental membership organization based in Switzerland. The award was conferred upon **Apollo Health and Lifestyle Ltd.** and **Apollo Specialty Hospitals, Madurai.**

## FICCI Healthcare Excellence Awards 2020

The FICCI Healthcare Excellence Awards, aim to felicitate organizations and individuals for their contributions to the industry through innovation, efficiency, affordability and improved performance of healthcare delivery.

The awards won by Apollo Hospitals were:

Category: Excellence in Hospital Preparedness for COVID-19

**Apollo Hospitals, Chennai** received award for Project Kavach - Preparation and Response to COVID 19 Pandemic

Category: Excellence in Capacity Building

**Apollo MedSkills Ltd.** received award for healthcare skills development training for BC youth of the country in association with National BC Finance Development Corporation.



## ET HealthWorld Hospital Awards 2020

ET HealthWorld Hospitals Awards honour and felicitate private hospitals in India for their outstanding contributions in providing high-quality healthcare in various segments. Spanning across 20 categories, the awards felicitated over 80 private hospitals across the country.

The awards won by Apollo Hospitals were:

Category: Best Hospital - Oncology (National)

Category: Best Hospital in Clinical Services (National)

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

### Apollo Gleneagles Hospital, Kolkata

Category: Best Hospital - Plastic Surgery (National)

### Indraprastha Apollo Hospitals, Delhi

Category: Best Hospital - Cardiology (East)

### Apollo Hospitals, Bhubaneswar

Category: Best Hospital - Neurology (West)

### Apollo Hospitals International Ltd – Gandhinagar

Category: Best Multi-Speciality Hospital (East)

### Apollo Hospitals, Bhubaneswar

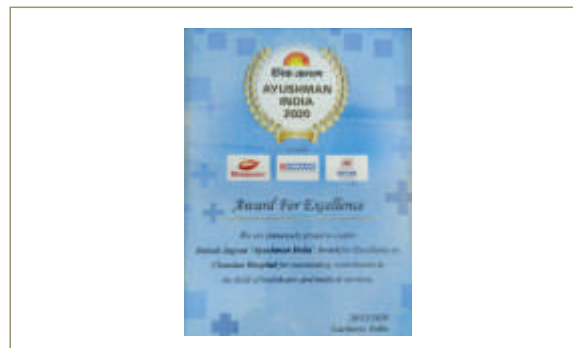


## Excellence Award - Ayushman India 2020

The forum organised by Dainik Jagran, conferred the award for Outstanding Contribution in the field of Healthcare and Medical Services to Apollomedics, Lucknow



Apollomedics Lucknow team, receiving Ayushman award



## Excellence in Quality Awards 2020

The 12th Edition of TANCARE organised by FICCI conferred the award for Best NABH Accredited Cancer Care Hospital to **Apollo Speciality Hospitals, Teynampet** and Best NABH Accredited Obstetrics Care Hospital to **Apollo Hospitals, Karapakkam**.

## Frost and Sullivan - Indian Radiation Oncology Enabling Technology Leadership Award 2020

The award was conferred to **Apollo Proton Cancer Centre** for excelling in technological leverage and patient experience in the category for Transformational Healthcare.





## Frost and Sullivan - Indian Telehealth Market Leadership Award 2020

The award was conferred on Apollo TeleHealth at the Best Practices Virtual Awards Ceremony.

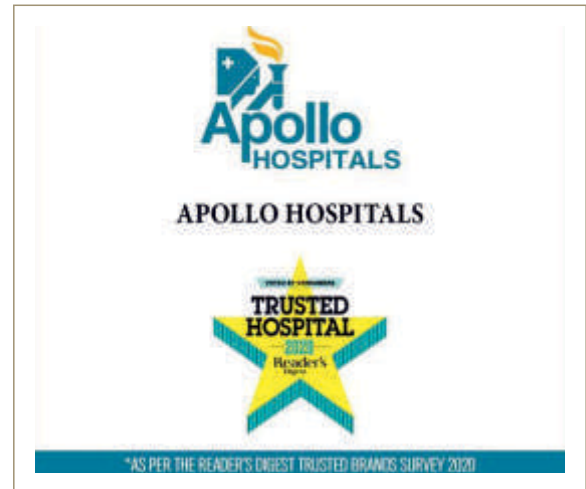
## Frost and Sullivan - Achieving Excellence in Quality through Technology Award 2020

The award was conferred on Apollo Health and Lifestyle Limited, Hyderabad for the Apollo Q4E Mobile App in the category of Process Innovation Leadership in Service Sector.



## India's Most Trusted Hospitals 2020

The Reader's Digest Trusted Brand Survey 2020 has ranked Apollo Hospitals in Chennai, Delhi, Navi Mumbai, Hyderabad, Bangalore, Kolkata, Bhubaneswar, Lucknow and Apollo Spectra Hospitals Kailash Colony as India's Most Trusted Hospitals.



## Asia Healthcare Summit and Awards 2020

The award was conferred on Apollo Hospitals as the Best Multi Specialty Hospital in Andhra Pradesh, in a ceremony at Vigyan Bhawan, New Delhi.



## AHPI Awards for Excellence in Healthcare 2020

Association of Healthcare Providers India (AHPI) represents the majority of healthcare providers in India.

|      |                |                     |                 |                     |     |           |             |          |                           |
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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

The awards won by Apollo Hospitals were:

Category: Nursing Excellence

**Indraprastha Apollo Hospitals, New Delhi**

**Apollo Hospitals, Bhubaneswar**

Category: Best Hospital to Work

**Apollo Hospitals, Hyderabad**



*Indraprastha Apollo Hospital, team receiving AHPI award*



*Apollo Hospitals, Hyderabad, team receiving AHPI award*



*Apollo Hospitals, Bhubaneswar, team receiving AHPI award*

## CSR Health Impact Award 2020

The award was conferred on **Apollo Total Health** for providing "Holistic Health Care" through 'Total Health' initiative to the entire community.



## Golden Aim Awards 2020

The award was conferred on **Apollo Hospital International, Ahmedabad** for Excellence and Leadership in Healthcare

## Qualtech Awards 2020

The awards won by Apollo Hospitals were:

Category: Clinical process

**Apollo BGS Hospitals, Mysore** for the project- Novel Approach towards Risk Free Patient Mobility

**Apollo Gleneagles Hospital, Kolkata** for the project - Aiming Towards a Needle-Stick Injury Free Hospital

Category: Non-clinical process

**Apollo BGS Hospitals, Mysore** for the project - Spot Light of Day - U Made My Day

**Apollo BGS Hospitals, Mysore** for the project - Project 365

**Apollo Hospitals, Kakinada** for the project - NAYAN: A Hospital Based Data Management Portal for Quality Systems

**Apollo Hospitals International, Ahmedabad** for the project - Reduction in Utility Cost to Improve Hospital Contribution Margin in Healthcare Facility

## COVID Warriors Award 2020

The forum organized by the Topgallant Media, honoured **Apollo Hospitals International, Ahmedabad** with the award for 'Outstanding Services and Contribution to the Healthcare Sector'



## Iconic Business Education Health Summit Awards 2020

The forum organised by Topgallant Media, conferred the award on **Apollo Hospitals International, Ahmedabad** for the category 'Most Innovative Hospital for Wellness and Healthcare of the Year'.

## CII - Kaizen Awards 2020

The award was conferred to **Apollo Cancer Centre, Chennai** for Nursing Excellence and Environment Conservation at the 15th Edition of CII Conclave.

## The WEEK- Hansa, Research Survey 2020

The Best Hospital Survey 2020 conducted by THE WEEK in association with Hansa India, ranks multispecialty hospitals at all India level, city level and speciality – wise. Various parameters were considered in the process of selecting the best hospitals; like competency of the doctors, patient care and availability of multi – specialty facilities, reputation, infrastructure, innovation and environment. 2012 doctors (860 physicians and 1,152 specialists) from 17 cities were consulted, for their opinion regarding the top ranking hospitals and those with best ranking specialties.

**Apollo Hospitals, Chennai** was ranked as Best Corporate Hospital in the country in 2020.

**Indraprastha Apollo Hospitals, Delhi** was ranked as the third Best Corporate Multi-speciality Hospital in the country.

|      |                |                     |                 |                     |     |           |             |          |                           |
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**Apollo Gleneagles Hospitals, Kolkata** was ranked the First Best Multispecialty Corporate Hospital in the East Zone. **Apollo Hospitals, Bhubaneswar** was ranked as third Best Multispecialty Corporate Hospital in East Zone.

**Apollo Hospitals, Hyderabad** was ranked as the second Best Multispecialty Corporate Hospital in South Zone.

Apollo Hospitals were also ranked as the best multispecialty hospitals in the cities of Delhi, Chennai, Hyderabad, Kolkata, Lucknow and Bhubaneswar by the survey.

Apollo Hospitals at Chennai, Delhi, Hyderabad, Bangalore, Kolkata featured amongst the top 15 hospitals in the country in the specialties of Oncology, Orthopedics, Gastroenterology, Cardiology, Neurology, Paediatrics, Pulmonology, Diabetes care.

## Times Health Survey 2020

**Apollo Hospitals, Chennai** was ranked as the best multispecialty hospital in India. **Indraprastha Apollo Hospitals, Delhi** was ranked as the second best multispecialty hospital in India.

Apollo Hospitals at Hyderabad, Bangalore, Bhubaneswar were ranked amongst the top 15 multispecialty hospitals in the country.

**Apollo Hospitals, Chennai** was ranked as the best hospital in the southern region. **Indraprastha Apollo Hospitals, Delhi** was ranked as the best multispecialty hospital in the northern region. **Apollo Hospitals, Bhubaneswar** was ranked as the best multispecialty hospital in the eastern region.

Apollo Hospitals at Lucknow and Kochi were ranked as the best emerging hospitals.

Apollo Hospitals were ranked as the best multispecialty hospitals in the cities of

Ahmedabad, Hyderabad, Chennai, Bangalore, Bhubaneswar and Delhi.

## Critical Care Survey 2020

**Indraprastha Apollo Hospitals, Delhi** was ranked as the best multispecialty hospital in India for the specialties of Emergency, Gastroenterology and Neurology

**Apollo Hospitals, Chennai** was ranked as the best multispecialty hospital in India for the specialties of Nephrology, Oncology and Pediatrics.



## The Newsweek Ranking 2020

The Newsweek ranked Apollo Hospitals at Chennai, Delhi, Hyderabad and Bangalore amongst the best top 20 hospitals in India. Apollo Hospitals at Ahmedabad and Navi Mumbai were ranked amongst the top 40 hospitals in India.



## Times Icon Award 2020

The award was conferred on **Apollo Hospitals, Indore** as the Best Multispecialty Hospital of Madhya Pradesh by Times Group.



## SKOCH Award 2020

The award was conferred on **Apollo Telehealth Services** for –

**Jharkhand Digital Dispensaries** were awarded “Order of Merit” in the category of Beacons of Hope

**HP Tele Emergency Project** was awarded a “Silver Medal” in the category of Aspirational District Health



## Best Project Implementation Agency (PIA) Award 2020

The award was conferred on **Apollo MedSkills Trivandrum**

## Participation in Republic Day Parade 2020

Apollo Dialysis Clinic was conferred the 2nd prize for their Dialysis Clinic Tableau placed in the Republic Day Parade in Karimganj District of Assam.





# RESEARCH

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# Research

## Apollo Hospital Education and Research Foundation (AHERF)

AHERF is a not-for-profit organisation recognised by the Department of Scientific and Industrial Research (DSIR), and is focused on basic, translational and epidemiological research. AHERF comprises of Cell and Molecular Biology Research Centre (CMBRC) and has centres at Chennai, Hyderabad and Delhi to carry out research activities. The CMBRC enables basic and translational research projects in cutting edge areas such as liquid biopsy, molecular diagnostics, pharmacogenetics and exosomes. Further AHERF also spearheads a faculty development programme to spawn research pilots for basic research projects.

### Projects

**Circulatory Biomarker - Biology Program:** AHERF has established a wide array of circulatory biomarkers in the form of cell free DNA, exosomes and circulatory tumour cells. Exosome biology is being now used to develop exosome-based diagnostics, drug delivery vehicles and cell free therapeutics. AHERF has made a foray into diagnostics and drug delivery system and is making efforts to develop exosome-based therapeutics.

**Biomarkers:** Exosome biology was used to detect serum EGFRVIII from the blood which stood as a diagnostic marker for detecting high grade gliomas. This has been established and validated and is published in the Journal of Neuro oncology. CMBRC has been working on for establishment of detection biomarkers in diabetic nephropathy, renal transplant rejection and head and neck cancers.

**Drug Delivery Agents:** AHERF is working on various cutting-edge technology research projects using exosome technology as a platform. The projects focus on diagnostics, drug delivery and therapeutic application. The aim is to develop many more research projects related to cancer, diabetes, cardiovascular disease and neuro-regenerative diseases.

Some of these are:

| S.No | Category      | Project  |
|------|---------------|--|
| 1    | Diagnostics   | Development of urinary biomarker for early renal rejection                   |
| 2    | Diagnostics   | Development of early diagnostic panel for identifying diagnostic nephropathy |
| 3    | Diagnostics   | Development of companion diagnostic for mithramycin drug in glioma.          |
| 4    | Drug delivery | Development of exosomal curcumin from milk exosomes                          |
| 5    | Drug delivery | Development of fruit exosomes as drug delivery vehicle.                      |
| 6    | Therapeutic   | Development of exosomal dendritic cell vaccine                               |

### Extra Mural Grants received from Government Agencies

- Successfully secured Department of Biotechnology (DBT) grant in collaboration with Apollo Medical College for identification of pharmacogenomics determinants causing toxicity in pediatric ALL

- Successfully secured grant by Novartis for development of urinary exosomal diagnostics
- Secured Bio Technology Ignition Grant (BIG) for development of Alzheimer diagnostics (under Grab your Grant initiative)
- Secured Bio Technology Ignition Grant (BIG) for development of salivary exosome diagnostics. (under Grab your Grant initiative)
- PM Research Fellowship was granted to one of the research scholars working in a project at CMBRC

## Collaborations

### Collaboration with University of Hyderabad (UoH)

This collaboration will allow the faculty of UoH to interact with clinicians for conducting joint research projects; organizing seminars/ workshops/ training programs and conduct project work for MD/PhD students. This will foster collaborative research activities, epidemiological and population studies, interventional studies and clinical trials, health systems research, patient safety and quality of health care programs, conduct of conferences and workshops.

### Collaboration with Manitoba Chemosensory Biology Group (University of Manitoba)

AHERF has collaborated with the above Group to develop salivary exosome protocols for detecting bitter receptors – G-protein-coupled receptors (GPCR) project in pathological conditions. The project has been completed and a publication is currently being compiled as a methods paper.

### Guru Nanak Institutions

AHERF has undertaken a retrospective study in collaboration with Guru Nanak Institution in the field of Medical Imaging. The study is for clinical validation of image fusion protocol. Currently, the

data is being analyzed for validating the algorithm developed by Guru Nanak institution.

### Mitra Biotech

Mitra Biotech, a mid-sized biotechnology firm is offering personalized chemosensitivity assay with basing on tumors response to oncology drugs in-vitro. A proposal for establishment of clinical utility of precision medicine would build confidence in the clinical community for adoption of personalized medicine tests.

### Collaboration with Stemcyte India

Stemcyte provides complete stem cell solution from banking to application and treatment. AHERF and Stemcyte undertook a collaborative research agreement to establish exosome therapeutics from cord blood. The project will focus on establishment of mesenchymal stem cell exosomes as cell free regenerative medicine.

### Collaboration with Sanofi

Sanofi jointly conducts a list of GCP workshops and other programs such as pharmacovigilance, medical writing, monitoring, audits, inspection and regulatory subjects in association with AHERF.

### Collaboration with Pfizer

Pfizer, a leading multinational pharmaceutical company is working in association with Apollo Hospitals Group and have selected some sites as part of their global INSPIRE program. This allows the sites to check the feasibility of any Pfizer clinical study coming to India. The Chennai, Hyderabad and New Delhi centres have been revamped as per need, for being a part of the INSPIRE sites.

### Collaboration with Saarum Sciences

Apollo Hospitals Enterprise Limited (AHEL) has joined hands with Saarum by the means of joint venture named Sapient Biosciences (Sapient).

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

Sapien aims at building a commercially sustainable bio-banking business that will leverage on bio-samples from Apollo Hospitals' nationwide network of hospitals. The activity is coordinated by AHERF. Sapien last year has launched a diagnostic test to evaluate effects of clopidogrel on the patients with stents. The test was developed in-house by Sapien and AHERF. The test is branded as myPlatelet and was first launched in Apollo Hospitals, Hyderabad and is being conducted as a routine test in many Apollo Hospital centers.

### Collaborative Research Projects with Apollo Hospitals

AHERF has developed an exosome technology for detection and screening of glioblastomas (GBMs) from blood in collaboration with Apollo Hospitals at Hyderabad and Chennai. This panel developed can also be used for real time monitoring of GBM post-surgery for cases of metastasis. Further, AHERF in collaboration with Datar Genetics has developed the diagnostic test kit for GBM and shall be commercialised after validation.

### DNA+

Apollo Hospitals has partnered with Datar Genetics to offer a comprehensive disease pre-disposition test – DNA+. This one-time test analyses and assesses the unique DNA make-up to understand its impact on genetic predisposition for more than 60 conditions including cardiovascular disease, diabetes and cancers, by which the patients can be well informed to follow any life style modifications.

### Micro Genomics

Apollo Hospitals collaborated with a SriLankan based company Credence Genomics to carry out a validation study on diagnosis of bacterial and fungal infection by Next Generation Sequencing (NGS) technology and to correlate with the current gold standard culture and sensitivity. The study was successfully completed and is ready for

commercialization.

### Collaboration with IICT-Hyderabad

The aim of collaboration with CSIR-Indian Institute of Chemical Technology (CSIR-IICT) is to foster and develop:

- Exosome and exosome mimetic drug delivery systems
- Dendritic cell-based vaccine

### Collaboration with IIT Hyderabad

The aim of this collaboration is to develop/ foster:

- Advanced drug delivery systems using exosomes
- Development of microfluidics approaches to quantify extracellular vesicles

### Collaboration with Stempeutics

The aim of this collaboration is to develop/ foster

- Establishment of exosome based drug delivery system

### Collaboration with Academic Institutions:

- Jamia Hamdard University, New Delhi
- Maulana Azad University, Jodhpur
- Delhi Pharmaceutical Sciences and Research University

## AHERF Incubated Companies

**Sapien Life Science** – a start-up seeded at AHERF and independently working from the last 5 years for developing bio-banks for research purposes.

**Urvogel Bio** – a biotechnology start-up incubated at AHERF. The start-up is developing non-invasive dementia diagnostics.

**The 'Sephirah'** - a start-up company incubated at AHERF Hyderabad and ARI will provide support to conduct clinical trials for the proposed research. Sephirah with the start-up grant will be developing salivary diagnostics for detecting HPV positive cancers.

### Faculty Development Projects:

This program proposes to establish a pilot program for developing a research culture at Apollo Hospitals. The following are the pre-requisites for sanction of projects

- I. That a full proposal will be developed for extramural support
- II. A paper will be submitted for publication
- III. Data will be presented at a national/ international forums

Measurable elements of success will be - i) number of publications and ii) amount of extra-mural grants generated.

#### The list of studies approved under Faculty Development Program:

- Natural drug delivery system
- Diabetic nephropathy detection panel through urinary exosome
- Effect of intradialytic exercises on maximal oxygen consumption and quality of life
- Predicting metastatic potential of breast cancer using vascular, functional and metabolic parameters obtained with simultaneous PET/MRI: a retrospective study
- Local antibiotic delivery method using vit-D3
- Qualitative and quantitative evaluation of morpho-metabolic changes in bone cartilage
- TGF-beta 1 as a diagnostic predictor in lung fibrosis
- Efficacy of norepinephrine versus epinephrine

in paediatric septic shock

- Proposal for a pilot study of vitamin C in sepsis- the Indian LOVIT (Lessening Organ Dysfunction /Injury with Vitamin C) trial
- Two tier vascular access surveillance system
- Compare detection of HPV-16 biomarkers in serum and saliva samples with Tumor P-16 in Oropharyngeal Squamous Cell Cancer

## Apollo Research and Innovations (ARI)

ARI provides an end to end platform for converging clinical insights, technology and business to spawn innovation and research within the Apollo Hospitals ecosystem. Some of the key areas of innovations include convergence of healthcare with life sciences and technology, innovation in software, innovation in medical devices and innovation in public health.

ARI currently has a comprehensive ecosystem to undertake clinical studies for sponsored drug trials, devices, software as well as consumer goods. Apollo Hospitals currently is also India's largest clinical site solutions organization having undertaken over 1200 clinical studies, operated by a dedicated team of over 80 professionals located across 20 sites in 14 different Apollo Hospitals and covering over 10 therapeutic areas. This competence has been further evolved to extend co-development capabilities and augment the same with some very creative business models.







## Clinical Research- Overview

As per the latest regulatory guidelines, ARI at various centres constituted a separate ethics committee for bio medical research in compliance with ICMR guidelines, which reviews proposals pertaining to academic, collaborative research proposals, Investigator Driven Research Studies and healthcare research.

- Apollo sites were involved in more than 20 COVID-19 studies in many of its locations – to evaluate the effect and safety of the following therapies: immunosuppressive, nature-convalescent plasma, repurposed antimalarial drug, steroids, low molecular weight heparin, protease inhibitors and vaccines. In addition to this, about eight COVID-19 studies are ongoing in collaboration with global institutions/universities/organizations and collaborative research studies with the Council of Scientific Industrial Research (CSIR) and the Center for Cellular and Molecular Biology (CCMB). Apart from this, regulatory review process is ongoing for

six global collaborative phase 2 and 3 trials which are initiated from Feb 2021 in Apollo Hospitals at Chennai, Hyderabad, Mumbai and Delhi. As a healthcare chain and with established site offices, Apollo Hospitals is conducting many in-house observational/data collection/outcome studies as investigator initiated research projects for COVID-19.

ARI played a vital role in supporting the investigators in all aspects from initial stages to completion of the study. Some studies have been completed whereas many are ongoing. The table below gives an overview of the studies at various Apollo Hospitals.

In many of the studies, Apollo sites covered almost 25 – 30% of the patient enrollment for India.

| S.No | Sponsor                       | Drug                | ARI Sites   |
|------|-------------------------------|---------------------|---|
| 1.   | Serum Institute               | rBCG                | Apollo Hospitals, Chennai, New Delhi                                  |
| 2.   | DRL                           | Sputnik             | Apollo Hospitals, New Delhi   |
| 3.   | Zydus Cadila                  | ZyCovD              | Apollo Hospitals, Chennai, Madurai                                    |
| 4.   | Bharat Biotech                | Intranasal Covaxin  | Apollo Hospitals, Chennai   |
| 5.   | Medanta                       | Tocilizumab         | Apollo Hospitals, Chennai, Hyderabad, New Delhi                       |
| 6.   | Apollo Hospitals              | Convalescent Plasma | Apollo Hospitals, Chennai, Hyderabad, Kolkata, Navi Mumbai, New Delhi |
| 7.   | WHO/ICMR                      | WHO Solidarity      | Apollo Hospitals, Chennai   |
| 8.   | WHO/ICMR                      | WHO Unity           | Apollo Hospitals, Chennai, Madurai                                    |
| 9.   | George Institute              | HCQ                 | Apollo Hospitals, Ahmedabad, Chennai, Madurai, New Delhi              |
| 10.  | George Institute              | Steroid             | Apollo Hospitals, Ahmedabad, New Delhi                                |
| 11.  | Glenmark                      | Favipiravir         | Apollo Hospitals, Chennai   |
| 12.  | DRL                           | Remdesivir          | Apollo Hospitals, Chennai, Hyderabad, New Delhi                       |
| 13.  | Bharat Serums and Vaccines    | Ulinastatin         | Apollo Hospitals, New Delhi   |
| 14.  | Thrombosis Research Institute | LMWH                | Apollo Hospitals, Chennai, New Delhi                                  |
| 15.  | Monash University Australia   | Vitamin C           | Apollo Hospitals, Chennai   |

### Convalescent Plasma Study [CPS] for COVID-19

ARI initiated CPS, assisted and played a major role in developing the study documents. This was followed by coordination to obtain Ethics Committee and DCGI approval to conduct studies across seven Apollo Hospital locations at Ahmedabad, Bengaluru, Chennai, Hyderabad, Kolkata, Delhi and three non-Apollo centers. ARI played a major role in coordinating the study which enrolled 100 patients in two months. They were followed up for 28 days to ensure patient safety. Data collection, compilation and basic analysis was performed by ARI. The study report showed outcome similar to other studies carried out globally.

### Device Studies

**ASHA+ commercialised at Apollo Hospitals** - ARI successfully conducted a validation study of a vital monitoring device ASHA+ at Chennai, the device is commercialized through Apollo Hospitals and is available for use to the public.

**CNOGA** – Clinical validation study of Israeli Device Tensor Tip MTX, a small, lightweight, portable, novel non-invasive fingertip device that measures six vital parameters based on real-time colour image sensor by photographing the fingertip tissue. The device was tested at two centres in Hyderabad on over 300 patients for the measurement of physiological and haematological

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

parameters of blood glucose, haemoglobin, haematocrit, RBC, Mean Arterial Pressure, blood PH, SpO2, blood pressure (systolic and diastolic) and other parameters. The parameters correlate with the standard PoC diagnostic devices and is ready for commercialization.

**SALCIT device for asthma diagnosis** – Salcit Tech relies primarily on respiratory sound (cough and wheeze) characteristics, in providing lab free offering of early screening and recovery monitoring services. The technique is completely non-invasive and addresses some known gaps in accurate and differentiated diagnosis of chronic respiratory diseases. About 100 patients participated in the study. The data is being analysed for an outcome report followed by registration for commercialization.

#### ARI Facilitated Studies

**Apollo-Abbott Registry** - The objective of the registry is to evaluate risk factors for CAD in patients undergoing health check with high sensitivity Troponin I as predictive marker. The study is initiated in six of Apollo Hospital centres. The patients identified with moderate and high risk were followed up with collection of data. The outcome of the study aims to include HS Troponin I as a routine marker in health check. ARI is involved in the follow up of patients and documentation.

**Apollo Cardiovascular Registry** – This is a multicentre prospective observational study on cardiovascular risk factors to build a standardized predictive risk score for Indian population. This study aims to build an intuitive model based on artificial Intelligence and deep learning algorithms and determine its effectiveness compared to traditional risk score frameworks like Framingham Risk Score. Study was approved by the Ethics Committee across nine centres at various locations across India and CTIRI approval was completed. The outcome of the study is submitted as a manuscript for publication.

**Credence Genomics NGS (Next Generation Sequencing) set up** - ARI coordinated the validation of the technology introduced by Micro - Genomics, division of Credence Genomics - a Sri Lankan genomics Company. The study involved validation of NGS (Next Generation Sequencing) technique for diagnosis of infectious disease pathogens with a sensitivity of over 90 % and TAT of 36 hours both for bacterial and fungal infections. This technique will be very helpful for mixed infections where organisms cannot be identified and cultures in the routine C and S and has a potential to reduce the anti-microbial resistance by way of choosing the right antibiotics early. The test is commercialized through Apollo Hospitals and is available to the public.

#### Clinical Research Training – Overview

The broad objective of this initiative is to train and equip young professionals with the critical skills needed to develop and promote scientifically valid and ethically appropriate clinical research and to collaborate with the industry leaders and give hands on experience to acquire expertise in the area of clinical research. ARI continues to conduct training programs in Clinical Research to equip the clinical research aspirants to meet the industry needs. AHERF advised and supports the education programs run by Apollo Research and Innovations. The one-year regular full-time course of “Advanced Post Graduate Diploma in Clinical Research (APGDCR)” program with six months of theory and six months of internship is ongoing.

ARI developed and initiated the following online clinical research training programs during the pandemic:

**Certificate Course in Clinical Research [CCCR]** – A three-month basic course to understand and widen the scope and horizon of knowledge in this domain. The sessions have lectures on topics directly associated with clinical research and also have group discussion to build a team spirit mandatory for better job satisfaction.

**Executive Program in Pharmacovigilance [EPPVG]** – A three-month course in Pharmacovigilance covering the guidelines, regulations, plan and implementation of PVG with practical sessions and discussion with Industry experts.

**Executive Program in Clinical Data Management [EPCDM]** – A three-month course in clinical data management is a comprehensive course offering candidate with knowledge on the clinical data management processes and tools.

**Executive Program in Clinical Research Internship [EPCRI]** – A three/six month course in clinical research internship to provide basic theoretical knowledge followed by hands-on on-site training to augment their skills and practice domain.

**Executive Program in Clinical Research Projects [EPCRP]** – A three-month course covering theory followed by internship helps the students to gain leadership qualities and manage the clinical trials independently.

**Professional Diploma in Clinical Research [PDCR]** – A six-month program covering the basic level theory for three months followed by advanced domain specific training in one of the areas of PVG/CDM/internship/project for another three months.

## Apollo Research and Innovations – New Initiatives

### International Clinical Trials Day

Virtual celebrations for the 'International Clinical Trials Day' were held in May 2020 at Apollo Hospitals in Chennai, Hyderabad, New Delhi, Ahmedabad, Bangalore with interactive discussion amongst the various stakeholders.

## Highlights of ARI 2020

**Association for the Accreditation of Human Research Protection Program (AAHRPP) Accreditation** - Apollo Hospitals Enterprise Limited (AHEL) has been awarded full accreditation and honoured with the global gold seal by the Association for the Accreditation of Human Research Protection Programs (AAHRPP).

### Collaboration with StemCyte

StemCyte Inc. is a US based bio-technology and cell therapy company with which Apollo Hospitals and Cadila Pharmaceuticals have formed a joint venture. It has a hybrid cord blood banking facility that provides private and public banking facility. The private bank allows the individuals and families in India to store UCB stem cells for their own use. ARI coordinates with StemCyte India in the cord-blood unit collection and storage. StemCyte India has achieved FACT accreditation during the year 2020 and also reached storage level of 20,000 units in the cord blood bank.

### Start-up Collaborations:

#### T-Works(Covid specific innovations)

At the start of the global pandemic, in a joint effort to ensure preparedness for the worst-case scenario, ARI facilitated interaction between the bio-medical team and clinicians of Apollo Hospitals with T-Works, India's largest prototyping centre in Hyderabad. The objective of this initiative was to develop an emergency use ventilator that can be used in peripheral centers like districts and area hospitals. It can also be used as a transport ventilator in ambulances. With this collaboration, T-Works was able to develop the first version of the ventilator in a short span of 32 days that successfully underwent technical evaluation at NIMS Hyderabad. They are currently looking forward to developing multiple versions of this mechanical ventilator in the future. ARI received a certificate of gratitude from T-works for the support they provided towards the development of the ventilator.



## German Accelerator – Next Step India Program

German Accelerator (GA) supports high-potential German start-ups in successfully entering the US and South East Asian markets. ARI collaborated with GA in its Next Step India Program. This was a 4-week market exploration program for promising German start-ups to understand market opportunities in India, connect with the Indian industry and build and scale their business in India. The cohort was to spend a week at ARI wherein clinical immersions, market discussions, specific clinician one-on-one sessions were arranged. The program was converted into a virtual session and ARI had detailed interactions with a few of the participating startups.

### • Constix

Constix is developing CancerScan, a software that makes early cancer diagnosis possible, resulting in less invasive treatments, ultimately saving billions of dollars and millions of lives. With a convenient and cost-efficient blood test, cancer detection is made easy through this software. ARI is to collaborate with Constix to help validate the

product with the aim of bringing advanced technologies in detecting cancer early to the Indian market.

### • Medical Cooling

ARI facilitated communication between the clinicians at Apollo Hospitals and Medical Cooling, a healthtech startup company that develops ventilators which doubles the chance of survival post-resuscitation, through cold air ventilation.

### • Ramp

ARI is in talks with RAMP, a healthtech startup founded 5 years ago that provides software for doctors to help them make the right therapy decision. Using RAMP medical software, treatment mistakes can be lowered to zero.

## Connected Life

Connected life is a Singapore based start-up that developed an AI based technology for the management of Parkinson disease. Using this software, the doctor can diagnose the severity of the disease in the patient's brain. ARI facilitated discussions between the clinicians at Apollo Hospitals, Ahmedabad and the team at Connected Life. The product is still in protocol development stage.

## Crely Inc

Crely Inc., a USA based digital health platform for osteoarthritis, that uses digital biomarkers and artificial intelligence (AI) algorithms to improve patient outcomes and minimise post-acute care cost. Crely is developing a medical device enabled SaaS platform that aims to detect surgical site infection after surgery and provide actionable intelligence to the clinicians. ARI has been on the forefront and facilitated talks between the orthopaedic team at Apollo Hospitals and the team at Crely to increase the scope of the product in India.



## Empathy Design Labs

Kriya Patch, a smart wearable and non-invasive screening patch which tracks the health of pregnant mother and the baby during pregnancy is a one of its kind device developed by Empathy Design Labs. The aim of the Kriya patch is to monitor pregnancy on a daily basis and avoid abnormal events and risk of stillbirth during delivery. It is AI and IoT enabled and clinically validated. ARI is in talks to provide a platform and facilitate communication between gynaecologists at Apollo Hospitals and the start-up.

## Clinical Immersion Program

ARI facilitated interaction between Apollo Clinicians and BIRAC SIIP fellows at Apollo Hospitals, Hyderabad in various departments including orthopaedics, pulmonology, ophthalmology, gynaecology, nephrology, psychiatry and rehabilitation. The aim of this initiative is to provide a platform for the fellows to get immersed with hospitals for interaction with various clinicians and strengthen their ideas.

## Apollo Medicine

Apollo Medicine, the official journal of Apollo Hospitals Group is a peer reviewed and indexed journal and is published by Wolters Kluwer in both print and electronic formats. Apollo Medicine (ISSN No 0976-0016) was conceptualized for providing a platform for researchers as well as clinicians ever since its inception in September 2004.



The journal is published quarterly (March, June, September and December) and is distributed to all consultants of Apollo Hospitals Group, most government and private medical colleges across the country, libraries and various subscribers around the world. Current and all previous issues of the journal can be accessed at [www.apollomedicine.org](http://www.apollomedicine.org).

The Journal accepts the following categories of manuscripts:

- Editorials
- Original articles
- Review articles
- Case reports
- Journal scans
- Technology updates
- Technology in medicine
- Interesting case pictures
- Interesting case videos
- Manuscripts on patient safety and quality in healthcare
- A brief on different government national programmes
- Manuscripts on medico legal cases/lessons for doctors/ manuscripts on ethics, manuscripts on common psychiatric disorders.

- Protocols and clinical guidelines from leading hospitals/professional societies
- Letters to the editor

The Journal is registered with the following abstracting partners:

Baidu Scholar, CNKI (China National Knowledge Infrastructure), EBSCO Publishing's Electronic Databases, Ex Libris – Primo Central, Google Scholar, Hinari, Infotrieve, ProQuest, TdNet, Wanfang Data.

The Journal has a wide readership that includes consultants in various disciplines, general practitioners, postgraduate students and researchers across the world.

Apollo Medicine has published 17 volumes and 66 issues till date.

The Journal has a total of 20 reviewers reviewing the articles since 2020.

The Editorial Board has been reconstituted which includes 21 members from Apollo Hospitals and 12 members from outside Apollo.

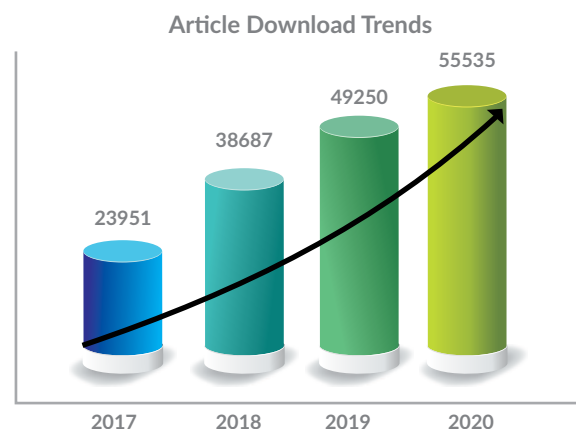
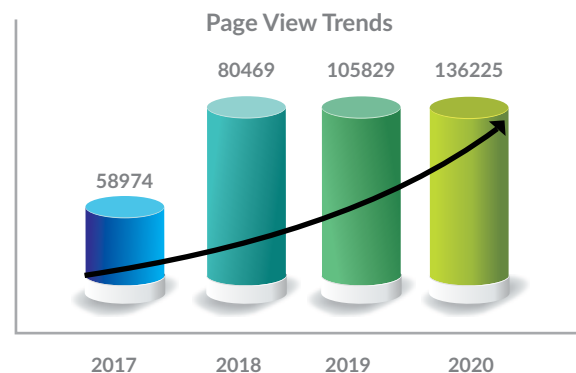
During the COVID-19 pandemic, in the year 2020, a total 94 articles were published in the 17th Volume.

The third quarterly issue (July – September) of 2020 of the 17th volume, an exclusive issue on COVID 19 was published. This special issue consisted of a total of 42 articles listed as following sections:

- Original articles – 1
- Research articles - 2
- Letters to editor – 4
- Case reports - 4
- Review articles – 31
- Editorials – 2

Article downloads have shown an upward trend

from 49250 to 55535 in 2020 and the page Views of Apollo Medicine has shown an upward trend from 105829 to 136225 in 2020.



## Adjunct Titles for Clinical Tutorship, Distinguished Clinical Tutorship and Emeritus Clinical Tutorship of Apollo Hospitals Educational and Research Foundation (AHERF)

Policy of grant of Clinical Tutorship, Distinguished Clinical Tutorship and Emeritus Clinical Tutorship of AHERF was implemented in the year 2017 in order to boost the state of clinical training across Apollo Group.

Senior faculty members from Apollo Hospitals Group who have an active interest in clinical training are nominated for an adjunct title post.

Twenty-seven consultants have been conferred with Adjunct title of "Clinical Tutor", 83 consultants with Adjunct title of "Distinguished Clinical Tutor" and 03 consultants with "Emeritus Clinical Tutor" across the Group.

Apollo Excellence Report – 2020, carries the names of only those consultants who were conferred Adjunct titles of Clinical Tutor and Distinguished Clinical Tutor of AHERF in the year 2020. The names of consultants who were conferred Adjunct titles in 2017, 2018 and 2019 were mentioned in the Apollo Excellence Reports of the respective years.

*List of Apollo Hospitals Consultants conferred with Adjunct Titles of Clinical Tutors/ Distinguished Clinical Tutors/ Emeritus Clinical Tutor of (AHERF) in 2020*



1. Dr Archana S  
Pathology  
Apollo Hospitals, Mysore  
Clinical Tutor



2. Dr Arun Prasad  
General Surgery, Surgical  
Gastroenterology and Bariatric  
Surgery  
Indraprastha Apollo Hospitals,  
New Delhi  
Distinguished Clinical Tutor



3. Dr I. Sathyamurthy  
Cardiology  
Apollo Hospitals, Grems Road,  
Chennai  
Emeritus Clinical Tutor



4. Dr JKA Jameel  
Surgical Gastroenterology and  
Minimal Access surgery  
Apollo Hospitals, Grems Road,  
Chennai  
Distinguished Clinical Tutor



5. Dr Jayanth BN  
General Surgery  
Apollo Hospitals, Grems Road,  
Chennai  
Distinguished Clinical Tutor



6. Dr L. Sundararajan  
Respiratory Medicine  
Apollo Hospitals, Grems Road,  
Chennai  
Distinguished Clinical Tutor



7. Dr M.S. Viswanathan  
Pediatric Gastroenterology  
and Hepatology  
Apollo Children's Hospitals, Chennai  
Distinguished Clinical Tutor



8. Dr Rajkumar P. Wadhwa  
Gastroenterology  
Apollo Hospitals, Mysore  
Distinguished Clinical Tutor



9. Dr Saibal Moitra  
Respiratory Medicine (Allergy and  
Immunology)  
Apollo Gleneagles Hospitals, Kolkata  
Distinguished Clinical Tutor

## Clinical Fellowship of Apollo Hospitals Education and Research Foundation

Clinical Fellowship accredited by Apollo Hospitals Educational and Research Foundation (AHERF) was started in the year 2013.

As per policy, these fellowships are being offered by Apollo Hospitals in those specialties where no or limited training programs exist in India.

These fellowships are of 6 months, 1 year and 2 years' duration.

There is a defined eligibility criteria and duration of fellowship which is aligned to the intake months of post graduate and DNB entrance examinations. Candidates with MBBS qualification will also be eligible for certain fellowships.

Seventy-three seats have been approved in the 48 specialties at 15 Apollo Group locations to run the Clinical Fellowship.

- Stroke in Neurology
- Cardiac/CTVS Anaesthesia
- Endoscopy in Gastroenterology
- Clinical Nephrology
- Renal Dialysis
- Transplant Nephrology
- Interventional Pulmonology
- Hyperbaric Medicine
- Endocrinology
- Head and Neck Oncologic surgery
- Liver Transplant Anaesthesia
- Liver Transplant and HPB surgery
- Genitourinary surgery
- Renal Transplant surgery
- Interventional Cardiology
- Radiation Oncology
- Emergency Neurology
- Transfusion Medicine
- Developmental Pediatrics
- Arthroscopy and Sport Medicine
- Anaesthesiology
- Implantation Otology
- Pediatric and Adolescent Endocrinology
- Minimal access and robotic surgery in Gynaecology
- Hepatology
- IVF
- Clinical Genetics
- Colorectal surgery
- Clinical Apheresis
- Pediatric Cardiac Critical Care
- Vascular/ Endovascular surgery
- Breast Oncosurgery
- Gynae Oncosurgery
- Applied Clinical Medicine
- Pediatric Urology
- Nuclear Medicine

- Diagnostic and Interventional Neuroradiology
- Allergy and Clinical Immunology
- Dermatopathology
- Spine Surgery
- Interventional Radiology
- Dialysis
- Critical Care Nephrology
- Minimally invasive neurosurgery (Brain and Spine)-Guwahati
- Coronary Imaging and Physiology
- Adult Interventional Cardiology
- Bone Marrow Transplant and Cellular Therapy
- Clinical Microbiology and Infectious Disease

### Apollo Hospitals locations where Clinical Fellowship of AHERF have been approved

- Delhi
- Bangalore
- Bilaspur
- Pune
- Kolkata
- Bhubaneswar
- Kakinada
- Secunderabad
- Chennai

- ASH Chennai
- Hyderabad
- Guwahati
- Navi Mumbai
- Jayanagar
- Lucknow

### Training

Training is being conducted as per teaching/ training schedule prepared by the supervisor/guide and subsequently approved by AHERF.

There is a defined process of training which includes:

- Hands on training by observing procedures and surgeries, case presentation during clinical meetings, observations, training through simulator and videos
- Clinical training is imparted through Clinical Meetings/ CMEs/ Departmental Meetings/ Symposiums and bed side case presentations . Fellows can join the Journal club.

### Final Examination/ Evaluation

There is a defined process of final examination/ evaluation. Final examination is being conducted at the end of the six months/ one year/ two years (depending upon the duration of fellowship program) of fellowship program by one external examiner and one internal examiner.

Clinical fellows who successfully complete their training and examination, are conferred with certificate of Clinical Fellowship of AHERF in the respective speciality.



*Names of candidates who have completed their Clinical Fellowship in 2020 were:*



1. Dr Akanand Singh  
Liver Transplant  
Indraprastha Apollo Hospitals,  
New Delhi  
Name of Guide/ Consultant  
Dr Neerav Goyal



6. Dr Pratyush Kumar Tripathy  
Cardiac Anesthesia  
Apollo Hospitals, Bhubaneswar  
Name of Guide/ Consultant  
Dr Samarjit Bisoyi



2. Ashwin Shastri  
Head and Neck Oncology (Basic)  
Apollo Hospitals, Hyderabad  
Name of Guide/ Consultant  
Dr Umanath Nayak



7. Dr R Sridhar  
Interventional Pulmonology  
Apollo Hospitals, Greams Road,  
Chennai  
Name of Guide/ Consultant  
Dr Narasimhan



3. Dr G Snigdha  
Minimal Access and Robotic  
Surgery in Gynecology  
Apollo Hospitals, Hyderabad  
Name of Guide/ Consultant  
Dr Anuradha Panda



8. Dr Rakhi Jain  
Pediatric and Adolescent  
Endocrinology  
Indraprastha Apollo Hospitals,  
New Delhi  
Name of Guide/ Consultant  
Dr IPS Kochar



4. Dr Iftekhar Ahmed  
Paediatric Cardiac Intensive Care  
Indraprastha Apollo Hospitals,  
New Delhi  
Name of Guide/ Consultant  
Dr Reetesh Gupta



9. Dr Vijaya Kumar Jain S  
Head and Neck Oncology – Advanced  
Apollo Hospitals, Hyderabad  
Name of Guide/ Consultant  
Dr Umanath Nayak



5. Dr Neha Singh  
Minimal Access and Robotic  
Surgery in Gynecology  
Apollo Hospitals, Hyderabad  
Name of Guide/ Consultant  
Dr Rooma Sinha

## Recognition of Books

Guidelines to recognize books published by consultants were institutionalized in December 2018.

Seventeen books of Apollo Hospitals consultants were recognized with cash awards along with citations from the Chairman.

List of books of consultants recognized in 2020

**Dr. Adithya Udupa, Cardiology, Mysore**

- Cardiac drugs and their trials

**Date of publication:** 2019

**Author/Editor of Text book:** Dr. Adithya Udupa

- A quick review of clinical trials in cardiology (Second edition)

**Date of publication:** 2019

**Author/Editor of Text book:** Dr. Adithya Udupa

**Dr. Dhanya Dharmapalan, Pediatric Infectious Disease, Navi Mumbai**

- Partha's Management Algorithms in Pediatric and Adolescent Practice

**Date of publication:** Feb 2019

**Author/Editor of Text book:** Alok Gupta, Anupama Borker, Dhanya Dharmapalan, Remesh Kumar

- IAP Text Book of Pediatrics (Seventh edition)

**Date of publication:** Feb 2019

**Author/Editor of Text book:** Multiple editors including Dr. Dhanya

**Dr. Kalaivani Ramalingam, Urogynecology, Chennai**

- Get through MRCOG Part 2 EMQs (Second edition)

**Date of publication:** 2019

**Author/Editor of Text book:** Kalaivani Ramalingam, Latha Mageswari, Lakshmi Thirumalaikumar

**Dr. Dhanaraj M, Neurology, Chennai**

- Critical Care Neurology: Clinical and Neuroradiological case series with review

**Date of publication:** 2018

**Author/Editor of Text book:** Dr. Dhanaraj M

**Dr. Koushik Lahiri, Dermatology, Kolkata**

- A Treatise on Topical Corticosteroids in Dermatology. Use, Misuse and Abuse

**Date of publication:** 2018

**Author/Editor of Text book:** Dr. Koushik Lahiri

- Superficial fungal infections

**Date of publication:** 2018

**Author/Editor of Text book:** Dr. Koushik Lahiri

**Dr. O P Sharma, Geriatrics, Delhi**

- A Handbook of Geriatric Care

**Date of publication:** March 2019

**Author/Editor of Text book:** Dr. O. P. Sharma

**Dr. Rakesh Periwal, Critical Care Medicine, Guwahati**

- Mechanical Ventilation (By ISCCM Guwahati City Branch)

**Date of publication:** 2019

**Author/Editor of Text book:** Dr. Brajendra Lahkar, Dr. Vandana Sinha, Dr. Reshu Gupta, Dr. Rakesh Periwal

**Dr. Remesh Kumar, Pediatrics, Kochi**

- Partha's investigations and Interpretations in Pediatric and Adolescent Practice-

**Date of publication:** 2019

**Author/Editor of Text book:** A Parthasarathy, Alok Gupta, Anupama Borker, Dhanya Dharmapalan, Remesh Kumar

**Dr. Rooma Sinha, Minimal Access and Robotic Surgery, Hyderabad**

- Uterine Leiomyoma

**Date of publication:** July 2019

**Author/Editor of Text book:** Pratibha Devabhaktuni, Rani Reddy, Rooma Sinha

**Dr. TV Devarajan, Internal Medicine, AFMH**

- Text Book of Medicine

**Date of publication:** 2018 and 2019

**Author/Editor of Text book:** Dr. TV Devarajan

- A to Z 1000 Pearls in Internal Medicine

**Date of publication:** 2018 and 2019 Dr.

**Author/Editor of Text book:** TV Devarajan

- MCQs in General Medicine

**Date of publication:** 2019

**Author/Editor of Text book:** Dr. T V Devarajan  
New book

**Dr Vijay Yewale, Pediatrics, Navi Mumbai**

- Text Book of Pediatric Infectious Diseases (Second edition)

**Date of publication:** 2019

**Author/Editor of Text book:** Emeritus Editor-A Parthasarathy, Editor in Chief-Ritabrata Kundu, Vijay Yewale including nine other editors

- Rational Antimicrobial Practice in Pediatrics (Third edition)

**Date of publication:** 2019

**Author/Editor of Text book:** Nitin Shah, Tanu Singhal, Suhas Prabhu, Vijay Yewale

## Recognition of Published Papers

Apollo Hospitals encourages consultants, junior medical staff and DNB trainees to undertake research activities in their areas of expertise. Apollo supports the effort of its staff and recognizes their achievements in publishing research papers.

Policy on "Recognition of Published Papers" was institutionalized in the year 2009 to encourage an academic and research milieu in the organization by recognizing published papers in reputed peer reviewed journals by consultants, junior medical staff, DNB trainees and nursing staff.

Impact factor is one of the quantitative tools for ranking, evaluating and categorizing.

506 papers have been received for recognition from Apollo Group consultants during the year 2020.



### Dr Aabid Husain Ansari, Orthopedic Surgery, Indraprastha Apollo Hospitals, Delhi

| S. No. | Topic  | Authors and Co-authors details                    | Publishing Journal and date                                  |
|--------|--|---|--|
| 1.     | Pathological fracture of the femoral shaft secondary to arterio-venous malformations | Abhishek Vaish, Aabid Husain Ansari, Raju Vaishya | Journal of Orthopedics and Rehabilitation, January-June 2020 |

### Dr Aakanksha Chawla Jain, Respiratory and Critical Care Medicine, Indraprastha Apollo Hospitals, Delhi

| S. No. | Topic   | Authors and Co-authors details   | Publishing Journal and date           |
|--------|---|--|---------------------------------------|
| 2.     | A retrospective observational study to determine the early predictors of in hospital mortality at Admission with COVID-19 | Aakanksha Chawla Jain, Sudha Kansal, Raman Sardana, Roseleen K Bal, Sujoy Kar, Rajesh Chawla | Indian J Crit Care Med, December 2020 |

### Dr Abhishek Vaishya, (Attending Consultant), Orthopedics, Indraprastha Apollo Hospitals, Delhi

| S. No. | Topic  | Authors and Co-authors details           | Publishing Journal and date          |
|--------|--|--|--------------------------------------|
| 3.     | Etiopathology and management of stiff knees: A Current Concept Review  | Vaish A, Vaishya R, Bhasin VB            | Indian J Orthop, 2020                |
| 4.     | Letter to editor: COVID-19: Current knowledge and best practices for orthopaedic surgeons.                                 | Vaish A, Jain VK, Iyengar KP, Vaishya R  | Indian J Orthop, 2020                |
| 5.     | Reconstruction of aggressive bone tumors of hand by mini JESS fixator  | Vaish A, Patel J, Vaishya R.             | J Clin Orthop Trauma, 2020           |
| 6.     | 3 D Printing aided elbow deformity correction.   | Vaish A, Vaishya R, Maini L, Aamir       | Am J Case Reports, 2020              |
| 7.     | Revisiting conservative orthopaedic management of fractures during COVID-19 pandemic                                       | Iyengar KP, Vaish A, Vaishya R.          | J Clinical Orthop Trauma 2020        |
| 8.     | COVID -19 and remote consulting strategies in the management of Trauma and Orthopaedics                                    | Iyengar KP, Vaish A, Toh E, Vaishya R    | Postgrad Med J, 5th May 2020         |
| 9.     | Is blood transfusion really required in simultaneous bilateral Total Knee Replacement: A retrospective observational study | Vaish A, Belbase RJ, Vaishya             | J Clin Orthop Trauma, 2020           |
| 10.    | Correction of a severe flexion knee deformity using 3D printing  | Vaish A, Rabari Y, Vaish R, Vaishya R    | Indian Journal of Orthopaedics, 2020 |
| 11.    | Bilateral broken calcaneal spurs   | Vaish A, Vaishya R                       | BMJ Case Rep, 2020                   |
| 12.    | An osteolytic lesion of the tibial shaft in a young boy  | Vaish A, Siddiqui M, Vaishya R, Baweja P | BMJ Case Reports, 2020               |
| 13.    | Langerhans cell histiocytosis of a metatarsal bone in an adult female  | Vaish A, Singh LK, Vaishya R, Kashyap V  | BMJ Case Reports, 2019               |
| 14.    | Multiple Insufficiency Fractures related to Vitamin D Deficiency in a young lady   | Vaish A, Vaishya R                       | Apollo Medicine, 2020                |
| 15.    | Role of Internet of Things for Health-care Monitoring during COVID-19 Pandemic   | Javaid M, Vaish A, Vaishya               | Apollo Medicine, 2020                |

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| 16. | Challenges in Providing Surgical Care during and after COVID-19 Pandemic          | Saseendar S, Vaish A, Vaishya R | Apollo Medicine, 2020  |
| 17. | Nonsurgical treatment of adult acquired flatfoot is effective: A narrative review | Vaish A, Sitaula J, Vaishya R   | Apollo Medicine, 2020  |
| 18. | History of regenerative medicine in the field of orthopedics                      | Vaish A, Murrell WD, Vaishya R  | Journal of Arthroscopic Surgery and Sports Medicine June, 2020 |
| 19. | Postoperative ileus after orthopedic and spine surgery: A critical review         | Kumar V, Vaish A, Vaishya R     | Apollo Medicine, 2020  |

#### Dr Ajit Kumar Surin, Rheumatology, Apollo Hospitals, Bhubaneswar

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| 21.    | Saliva microbiome in primary Sjogren's syndrome reveals distinct set of disease associated microbes                                    | Disha Sharma, Pulukool Sandhya, Shamsudheen Karuthedath Vellarikkal, Ajit Kumar Surin, Rijith Jayarajan Ankit Verma Anoop Kumar, Rowmika Ravi, Debashish Danda, Sridhar Sivasubbu , Vinod Scaria | Oral Dis, March 2020          |

#### Dr Akshat Pandey, Rheumatology, Apollo Hospitals, Indore

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#### Dr Aloy J Mukherjee, General Surgery, Indraprastha Apollo Hospitals, Delhi

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| 24.    | Hiatal hernia and morbid obesity-'Roux-en-Y gastric bypass' the one step solution | Mohsin Khan, Aloy J Mukherjee       | Journal of Surgical Case Reports, Volume 6: Page 1-2, 2019                  |
| 25.    | Pancreas, Pins and Pains-Laparoscopic Lateral Pancreato Jejunostomy               | Khan M, Mukherjee A                 | Annals of Medical and Surgical Case Reports, 2019                           |



**Dr Aman Sharma, Emergency Medicine, Apollo Hospitals, Bilaspur**

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| 27.    | Refractory ventricular tachycardia due to anti-malarial drug overdose   | Aman Sharma, Atanu Bhattacharya, Rajib Lochan Bhanja                                | Open Journal of Clinical and Medical, 15th September 2020             |
| 28.    | Misdiagnosis of Chest Pain: Spontaneous Oesophageal Rupture – A Case Report   | Aman Sharma, Ankit Chandel, Atanu Bhattacharya, Rajib Lochan Bhanja, Devendra Singh | Indian Journal of Medical Case Reports ISSN: 2319-3832 (Online), 2019 |
| 29.    | Feasibility and safety of outpatient lumbar microscopic discectomy in a Developing Country                          | Ashish Jaiswal, Satish Kumar, Siva Reddy, Parineeta Jaiswal                         | Asian Spine Journal, 2019   |
| 30.    | A rare case of bilateral luxation erecta with bilateral greater tuberosity fracture following a fall due to seizure | Siva V. Reddy, Ashish Jaiswal, Chandan S. Kanwar                                    | Journal of Clinical Orthopedics and Trauma, 2019                      |

**Dr Amey Sonavane, Gastroenterology, Apollo Hospitals, Navi Mumbai**

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#### Dr Animesh Saha, Oncology-Clinical, Apollo Gleneagles Hospitals, Kolkata

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#### Dr Anita Ramesh, Oncology-Medical, Apollo Hospitals, Vanagaram

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| 44.    | Prevalence of Angiogenesis, Proliferation and Apoptosis Markers of Cervical Cancer and Their Correlation with Clinico pathological Parameters | Anita Ramesh, R Vimal Chander, Chitra Srinivasan, Srinivasan Vengadassalopathy              | Hindawi Journal of Oncology, 2020                            |
| 45.    | Study of immunohistochemical profile and molecular classification of breast carcinoma cases in a tertiary care hospital                       | R Vimal Chander, Anita Ramesh, V. Srinivasan  | Annals of Tropical Medicine and Public Health, December 2020 |
| 46.    | Breast cancer and DDT: Putative interactions, associated gene alteration and molecular pathway  | Vijayashree Priyadharsini, Anita Ramesh, Arumugam Paramasivam                               | Environment Science and Pollution Research, January 2021     |

#### Dr Apurva Shah, Gastroenterology, Apollo Hospitals, Ahmedabad

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| 49. | Argon plasma coagulation—an effective treatment for solitary rectal ulcer syndrome: A single-centre experience from western India | Apurva Shah, Shravan Bohra, Swapan Desai | Indian Journal of Gastroenterology<br>November 2020 |
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**Dr Archana Lakshmanan, Oncology-Surgery, Apollo Cancer Institute, Teynampet**

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| 50.    | An incidental ovarian endometrioid adenofibroma with sertoliform tubules in a patient with endometrial malignant mixed mullerian tumor | Archana Lakshmanan, Annapurneswari S, Vimala Ramakrishnan, Ayyappan Srinivasan | Indian Journal of Obstetrics and Gynecology Research, Volume 7, 2020 |
| 51.    | Primary Bartholin's Gland adenoid cystic carcinoma: Dilemmas around adjuvant treatment   | Archana Lakshmanan, Ann Kurian, Kumar Gubbala                                  | Indian Journal of Gynecologic Oncology, September 2019               |

**Dr Arun Prasad, GI and Bariatric Surgery, Indraprastha Apollo Hospitals, Delhi**

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| 52.    | Weight Regain after bariatric surgery-A multicentre study of 9617 patients from Indian Bariatric Surgery Outcome Reporting Group (IBSOR)   | Baig, S J, Priya, P, Mahawar, K K et al. Name of Dr Arun Prasad is under IBSOR collaborators | Obesity Surgery, 2019       |
| 53.    | Standardization of Bariatric Metabolic Procedures: World consensus meeting statement   | Bhandari M, Fobi M A L, Buchwald J N, Prasad A   | Obesity Surgery, 2019       |
| 54.    | Reply to Gagner's Letter RE Features of MGB and OAGB   | Musella M, Deitel M, Kular K S, Prasad A   | Obesity Surgery, 2019       |
| 55.    | Cancer after the OAGB-MGB  | Rutledge R, Deitel M, Carbajo M A, Prasad A, et al.  | Obesity Surgery, 2019       |
| 56.    | One Anastomosis Gastric Bypass in Morbidly Obese Patients with BMI $\geq 50$ kg/m <sup>2</sup> : a Systematic Review Comparing It with Roux-En-Y Gastric Bypass and Sleeve Gastrectomy.        | Parmar C D, Bryant C, Luque-de-Leon E, Prasad A  | Obesity Surgery, 2019       |
| 57.    | OSSI (Obesity and Metabolic Surgery Society of India) Guidelines for Patient and Procedure Selection for Bariatric and Metabolic Surgery   | Bhasker A G, Prasad A, Raj P P et al   | Obesity Surgery, 2020       |
| 58.    | IFSO (International Federation for Surgery of Obesity and Metabolic Disorders) Consensus Conference Statement on One-Anastomosis Gastric Bypass (OAGB-MGB): Results of a Modified Delphi Study | Ramos A C, Chevallier J, Mahawar K, Prasad A et al   | Obesity Surgery, 2020       |
| 59.    | Trends and progress of bariatric and metabolic surgery in India  | Bhasker A G, Prasad A, Raj P P et al   | Updates Surgery, 2020       |
| 60.    | Obesity and Metabolic Surgery Society of India (OSSI) Recommendations for Bariatric and Metabolic Surgery Practice During the COVID-19 Pandemic  | Aggarwal S, Mahawar K, Khaitan M. Prasad A, et al.   | Obesity Surgery, 2020       |

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| 62. | Obesity and COVID-19  | Prasad A, Tiwari A, Siddiqui D, Osman N | Apollo Medicine, 2020 |

**Dr Aruna R Patil, Radiology, Apollo Hospitals, Bangalore**

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| 63.    | Not Just Fat: Imaging in Abdominal Fat Pathology  | Aruna R Patil, Shrivalli Nandikoor, Pramod Jagannath, Amit Bansal                  | Journal of Gastrointestinal and Abdominal Radiology, 22nd October 2020   |
| 64.    | Imaging in Appendicular Diverticulosis with Appendicitis  | Aruna R Patil, Bhushan Chaudhari, Satyajit Godhi, Swarna Shivakumar                | Journal of Gastrointestinal and Abdominal Radiology, November 2020       |
| 65.    | Multiple Myeloma  | Aruna R Patil, Kartik Revanappa, Sruthi Jacob                                      | RSNA Case Collection, May 2020   |
| 66.    | Imaging and Intervention in Internal Carotid Artery Pseudoaneurysm Secondary to Retropharyngeal Abscess | Ramanathan K, Aruna R Patil (corresponding author), Sundar Narasimhan, Satish Nair | Indian Journal of Otolaryngology and Head Neck Surgery, November 2020    |
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| 68.    | Intraventricular ganglioglioma with unusual location and morphology-A case report                       | Timble MK, Patil Aruna R, Naik AL, Shivakumar S, Chaudhary B,                      | International Journal of Radiology and Radiation Oncology, February 2020 |
| 69.    | Radiological and cadaveric study of anatomical safe zone for transoral base of tongue surgery           | Ibrahim A, Kumar S, Aruna R Patil, Aishwarya JG, Shah AS, Nair S                   | Journal of Robotic Surgery, October 2020                                 |

**Dr (Prof) Ashish Kakar, Dental Surgery, Indraprastha Apollo Hospitals, Delhi**

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| 70.    | Immediate implant placement in infected sockets: A consecutive cohort study | Ashish kakar, Kanupriya Kakar, Minas Levantis, Gaurav Jain | Journal of Lasers in Medical Science, 2020 |

**Dr Ashish Kumar Mishra, Orthopedics, Indraprastha Apollo Hospitals, Delhi**

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| 71.    | Aetiopathogenesis of Knee Osteoarthritis | Vaishya R, Mishra AK, Vaish A  | Asian J Arthroscopy, 2019   |

**Dr Ashish Malik, Anesthesia and Critical Care, Indraprastha Apollo Hospitals, Delhi**

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| 72.    | Anesthetic Management of a Caesarean Section in COVID-19 Positive Pregnant Patient | Ashish Malik, Balaji Pallapotu | Apollo Medicine, July 2020  |

**Dr Ashwathy Susan Mathew, Oncology-Radiation, APCC, Chennai**

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| 73.    | Long term outcomes of stereotactic body radiationtherapy for hepatocellular carcinoma withoutmacrovascular invasion | Ashwathy Susan Mathew, Eshetu G Atenafu, Dawn Owen, Chris Maurino, Anthony Brade, James Brierley, Robert Dinniwell John Kim, Charles Cho, Jolie Ringash, Rebecca Wong, Kyle Cuneo, Mary Feng, Theodore S Lawrence,Laura A Dawson | European Journal of Cancer, Volume 134: Issue 41: Page e51, 2020 |

**Dr Ashwin K Mani, Critical Care, AFMH, Chennai**

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| 74.    | Chronic respiratory failure from vocal cord palsy | Meghena Mathew, Nagarajan Ramakrishnan, Ashwin K Mani | Journal of Anaesthesia and Critical Care Case Reports, 2019 |

**Mr Balaji Vembu, DGM Quality-Southern Region, Apollo Grems Hospitals, Chennai**

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| 75.    | Global Core Standards for Hospital Antimicrobial Stewardship Programs | Name of Balaji V is there in the list of research contributors | Report of the Leading Health Systems Network, 2018 |

**Dr Barnali Das, (Associate Consultant), Pediatrics, Apollo Hospitals, Guwahati**

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| 76.    | An unusual neurological presentation: systemic lupus erythematosus mimicking central nervous system infection | Barnali Das, Rekha Khaund Borkotoky, Amrit Lal Saha, Geetanjali Sahariah Khound, Puja Banerjee Barua, Siba Prosad Paul | Sudanese Journal Of Paediatrics, 2020 |

**Dr Bhargavi Ilangovan, Oncology-Radiation, Apollo Cancer Institute, Teynampet**

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| 77.    | An Audit of the use of vaginal brachytherapy in endometrial cancers  | Dr. Bhargavi Ilangovan, Dr Ganapathy R, S Ayyappan,            | International Journal Of Gynecology Cancer, 2020  |
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### Dr Bhavik Bharat Shah, (Associate Consultant), Gastroenterology, Apollo Gleneagles Hospitals, Kolkata

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### Dr Bhawna Sirohi, Oncology-Medical, APCC, Chennai

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| 80.    | Oncofertility and COVID-19—cancer does not wait  | Bhawna Sirohi, Tanya Buckshee Rohatgi and Matteo Lambertini   | E Cancer Medical Science, 2020                          |
| 81.    | Indian Council of Medical Research Consensus Document for the Management of Gastroenterology pancreatic Neuroendocrine Neoplasms | Bhawna Sirohi, Savio G Barreto, Shailesh V Shrikhande, Manish Bhandare, Munita Bal, Raju T Chacko, Vikram Bhatia, Sandip Basu, Sanjay Thulkar, Tanvir Kaur, R S Dhaliwal, Goura Kishor Rath | Indian Journal of Medical and Paediatric Oncology, 2020 |
| 82.    | Patterns of cancer incidence in India – What next?   | Bhawna Sirohi, Aju Mathew   | Cancer Research, Statistics and Treatment, 2020         |

### Dr Bindu Menon, Neurology, Apollo Hospitals, Nellore

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| 83.    | Chronic Neurology in COVID-19 Era: Clinical Considerations and Recommendations From the REPROGRAM Consortium | Bindu Menon-4th author out of 21 authors       | Frontiers in Neurology, June 2020  |
| 84.    | Evaluating the Role of Oxidative Stress in Acute Ischemic Stroke   | Bindu Menon, Krishnan Ramalingam, Rajeev Kumar | J Neurosci Rural Pract, 2020   |
| 85.    | The Protective Anomalous Artery  | Bindu Menon, Gayatri Manam                     | Apollo Medicine, 2020  |
| 86.    | Stroke in Elderly  | Dr Bindu Menon                                 | Indian Journal of Geriatric Care, 2019   |
| 87.    | Asian Study of Cerebral Venous Thrombosis  | Bindu Menon-3rd author out of 12 authors       | Journal of Stroke and Cerebrovascular Diseases Volume 28, Issue 10, October 2019 |

### Dr Biplab Sarkar, Oncology-Radiation, Apollo Gleneagles Hospitals, Kolkata

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| 88.    | The open access financial model hinders the growth of medical physics research in low-and middle-income countries | Biplab Sarkar, Yi-Xiang Wang, Jing Cai | Med Phys, December 2020     |

| Dr Biswanath Mukhopadhyay, Pediatric Surgery, Apollo Gleneagles Hospitals, Kolkata |  |   |  |
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| 91.  | Reduction clitoroplasty in idiopathic clitoromegaly: A report of two cases   | Kartik Chandra Mandal, Pankaj Halder, Bidyut Debnat, Biswanath Mukhopadhyay                                     | Gynecology and Reproductive Healthcare, Volume 1, 2020                       |
| Dr C Arshad Akeel, Internal Medicine, Apollo Grems Hospitals, Chennai              |  |   |  |
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| 92.  | Carcinoma of Caecum : A rare cause of pyrexia of unknown origin  | Dr C Arshad Akeel, Dr K J Ragunath, Dr Kishore Kumar Reddy  | Indian Journal of Applied Research, February 2020                            |
| 93.  | The varied clinical presentation of Melioidosis – A Case Series  | Dr C Arshad Akeel   | Indian Journal of Applied Research, June 2020                                |
| 94.  | Covid-19 Presenting with failed heart, Congested Liver and Patchy Lung in a young patient: A case report                 | Dr C Arshad Akeel, Dr Phani Krishna M, Dr Neetu Mariam Alex   | Indian Journal of Applied Research, July 2020                                |
| 95.  | An interesting case of Subdural Av Fistula   | Dr C Arshad Akeel, Dr Kishore Kumar Reddy, Dr M Chandranathan   | Indian Journal of Applied Research, August 2020                              |
| 96.  | Eosinopenia as a diagnostic and prognostic marker in Covid-19 infection  | Dr C Arshad Akeel, Dr Kishore Kumar Reddy, Dr M Chandranathan   | Dr C Arshad Akeel, Dr Kishore Kumar Reddy, Balasubramaniam Ramakrishnan      |
| 97.  | Asymptomatic Pulmonary Thromboembolism in a Patient with Post-Covid infection  | Dr C Arshad Akeel, Dr Rajendran Magesh, Dr Kishore Kumar Reddy  | Indian Journal of Applied Research, November 2020                            |
| Dr Chandra Sekhar Chevuturu, Vascular Surgery, Apollo Jubilee Hills, Hyderabad     |  |   |  |
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| 98.  | A Comparative Study between Radio Frequency Ablation and Laser Therapy in the Treatment and Management of Varicose Veins | Chandra Sekhar Chevuturu  | Annals of International Medical and Dental Research, Volume 5: Issue 3, 2019 |

### Dr Cheri Mathews John, Pediatrics, Apollo Hospitals, Vanagaram

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### Dr Chetana Govindaraju, Neurosurgery, Apollo Cancer Institute, Teynampet

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| 100.   | Cerebral phaeohyphomycosis: Importance of early diagnosis and management | Cheri M John, Deepa E Mathew, laysara Abdelaziz, Adel A H Mahmoud, Ali D AlOtaibi, Aman P S Sohal | J Pediatr Neurosci, October- December 2019 |

### Dr Chitra Ayyappan, Pediatrics and Neonatology, Apollo Hospitals, Madurai

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| 101.   | Association of CTLA-4 and CD28 Gene Polymorphisms with Type 1 Diabetes in South Indian Population | Nagarajan Gunavathy, Arthur Asirvatham, Ayyappan Chitra, Mariakuttikan Jayalakshmi              | Immunological Investigations, 2019  |
| 102.   | SLC30A8 Gene rs13266634 C/T Polymorphism in Children with Type 1 Diabetes in Tamil Nadu, India    | Ramasamy Thirunavukkarasu, Arthur Joseph Asirvatham, Ayyappan Chitra, Mariakuttikan Jayalakshmi | J Clin Res Pediatr Endocrinol, 2019 |

### Ms D Maryline Finsi, Nursing Principal, Indraprastha Apollo Hospitals, Delhi

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| 103.   | A study to assess the effectiveness of a planned teaching programme on knowledge of legal aspects in health care among registered nurses | Ms Jyoti, Ms Rohini            | IOSR Journal of Nursing and Health Science (IOSR-JNHS), November – December 2020 |

### Dr D Vinoth Kumar, Plastic Surgery, Apollo Hospitals, Vanagaram

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| 104.   | Reverse radical forearm perforator plus flaps for the reconstruction of postelectrical burn sequelae of hand and forearm defect | Pradeoth Mukundan, Prashanth Varkey, Vinoth Kumar, Rameela Ravindran | Indian Journal of Burn, 2019 |

**Ms Daphnee D K, Dietics, Apollo Greams Hospitals, Chennai**

| S. No. | Topic   | Authors and Co-authors details                              | Publishing Journal and date               |
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| 105.   | Combating hospital malnutrition: Dietitian-led quality improvement initiative | Daphnee Lovesley, Rajalakshmi Parasuraman, Anand Ramamurthy | Clinical Nutrition ESPEN, Volume 30, 2019 |

**Dr Dayananda Shamurailatpam Sharma, Oncology-Medical Physics, APCC, Chennai**

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| 107.   | Ambient neutron and photon dose equivalent H (10) around a pencil beam scanning proton therapy facility | Dayananda Shamurailatpam Sharma, Kartikeswar, Noufal Manthala Padannayel, Manikandan Arjunan, Ganapathy Krishnan, Rajesh Thiyagarajan, Srinivas Chilukuri, Rakesh Jalali | British Journal of Radiology, July 2019 |
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**Dr Debabrata Chakraborty, Neurology, Apollo Gleneagles Hospitals, Kolkata**

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| 110.   | Neurocysticercosis: Interesting points to note   | Debabrata Chakraborty, Aditya Choudhary, Abhijit Das, Sumitava Mukherjee | Journal of Family Medicine and Primary Care, 2020 |
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**Dr Deep Dutta, Neurosurgery, Apollo Hospitals, Guwahati**

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#### Dr Deepa Elizabeth Mathew, Pediatrics, Apollo Hospitals, Vanagaram

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#### Dr Dhanasekhar Kesavelu, Pediatric Gastroenterology, ACH, Chennai

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#### Dr Dhanya Dharmapalan, Pediatric Infectious Disease, Apollo Hospitals, Navi Mumbai

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#### Mr Dhulipudi Pavan Kumar, Quality, Apollo Hospitals, Vizag

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#### Dr Dibyendu Khan, Cardiac Anesthesia, Apollo Gleneagles Hospitals, Kolkata

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#### Ms Dina G Selvi, Quality, Apollo Hospitals, Karapakkam

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**Dr Dinesh Mohan Chaudhari, (Clinical Associate), Neurology, Indraprastha Apollo Hospitals, Delhi**

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**Dr Faiz Hussain, General Surgery, AIMSR, Hyderabad**

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**Dr G Sengottuvelu, Cardiology, Apollo Grems Hospitals, Chennai**

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**Mr Gaurav Loria, Vice President Group Quality and Operations, Apollo Jubilee Hills, Hyderabad**

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**Dr Geetanjali Sahariah Khound, Pediatrics, Apollo Hospitals, Guwahati**

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**Dr Hari Mohan Singh/ Mrs Chingshubam Jibanlata Devi, Principal/Associate Professor Apollo Institute of Nursing, Ahmedabad**

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**Dr Helen M Perdita, Principal-Pediatric Nursing, Apollo College of Nursing, Apollo Hospitals, Madurai**

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**Dr Hemu Tandan, (Senior Registrar), Oncology-Radiation, Apollo Hospitals, Bilaspur**

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**Dr Hena Butta, Microbiology, Indraprastha Apollo Hospitals, Delhi**

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#### Dr Himleena Gautam, Obstetrics and Gynecology, Apollo Hospitals, Guwahati

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#### Dr Indira Jayakumar, Pediatric ICU, Apollo Cancer Institute, Teynampet

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#### Dr Jagadeesh Chandrasekaran, Internal Medicine, Apollo Grems Hospitals, Chennai

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**Dr Jegan Niwas K, Oncology-Medical, Apollo Cancer Institute, Teynampet**

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**Dr Jitendra Parmar, Radiology, Apollo Hospitals, Ahmedabad**

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**Ms Jyoti, Nursing Tutor, Indraprastha Apollo Hospitals, Delhi**

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**Dr Jyoti Prasad Kalita, CTVS, Apollo Hospitals, Guwahati**

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#### Dr K C Das, Gastroenterology-Surgery, Apollo Hospitals, Bhubaneswar

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#### Dr Kaustuv Dutta, Neuroanesthesia and Neuro Critical Care, Apollo Hospitals, Jayanagar

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#### Ms Kavitha Ramanathan, Nursing (Maternity), AIMSER, Hyderabad

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#### Dr Keyur K Akbari, (Senior Registrar), Spine Surgery, Apollo Cancer Institute, Teynampet

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#### Dr Kirty Nahar, Obstetrics and Gynecology, Apollo Hospitals, Ahmedabad

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#### Dr Koushik Lahiri, Dermatology, Apollo Gleneagles Hospitals, Kolkata

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#### Dr Lakshman V, Hematology, Apollo Cancer Institute, Teynampet

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#### Dr Mahesh Kumar Goenka, Gastroenterology, Apollo Gleneagles Hospitals, Kolkata

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### Dr Maitraye Basu, DGM Quality, Apollo Gleneagles Hospitals, Kolkata

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### Dr Mallika Samuel, Obstetrics and Gynecology, AFMH, Chennai

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### Dr Mamta Soni, Hematology and Clinical Pathology, Apollo Grems Hospitals, Chennai

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**Dr Mathi Manoj Kumar R, (Registrar), General Medicine, Apollo Grems Hospitals, Chennai**

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**Dr Maya Menon, Histopathology and Cytology, Apollo Grems Hospitals, Chennai**

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**Dr Md Ibrarullah, Gastroenterology-Surgery, Apollo Hospitals, Bhubaneswar**

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**Dr Mekala L, (Junior Consultant), Histopathology, Apollo Cancer Institute, Teynampet**

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**Dr N Somashekar Reddy, Orthopedics and Trauma, Apollo Jubilee Hills Hospitals, Hyderabad**

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**Dr N Ramakrishnan, Critical Care Medicine, Sleep Medicine, Apollo Grems Hospitals, Chennai**

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| 244. | A Prospective Observational Study of Rational Fluid Therapy in Asian Intensive Care Units: Another Puzzle Piece in Fluid Therapy                                       | N. Ramakrishnan is the 15th author out of total 27 authors   | Indian Journal of Critical Care Medicine, 2020     |
| 245. | Critical Care Epidemiology and Research in the Face of a Pandemic: An Opportunity in a Crisis  | Dr N Ramakrishnan, Dr Bharath Kumar, Dr Ramesh Venkataraman  | Indian Journal of Critical Care Medicine, 2020     |
| 246. | Rhabdomyolysis from influenza b infection: A case report   | Mrugank Bhavsar, Nagarajan Ramakrishnan, Senthur Nambi, Ashwin K Mani  | Indian Journal of Critical Care Medicine, 2020     |
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| 250. | Tele-sleep medicine: an opportunity in a crisis  | Nagarajan Ramakrishnan, Pon Thelac Appachi Somasundaram, Nileena Namboodiripad Kakkattu Mana             | Journal of the International Society for Telemedicine and eHealth, December 2020 |
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#### Dr N Sadiya Shafi, Histopathology, Apollo Hospitals, Vanagaram

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| 255.   | Rare Intracranial Recurrent Meningioma with Unique Coexisting Atypical, Papillary and Lipomatous Component: Case Report and Review of Literature | Niamathullah Sadiya, Swatee Halbe, Mitra Ghosh, Siddhartha Ghosh | World Neurosurgery, <a href="https://doi.org/10.1016/j.wneu.2019.09.151">https://doi.org/10.1016/j.wneu.2019.09.151</a> , 2019 |

#### Dr N L N Moorthy, Radio Diagnostics, AIMS, Hyderabad

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### Dr Narasimhan Ragavan, Urology, Uro-Oncology and Robotic Surgery, Apollo Cancer Institute, Teynampet

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### Dr Neelam Suri, Obstetric and Gynaecology, Indraprastha Apollo Hospitals, Delhi

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### Dr Nikita J Mulchandani, Histopathology, Apollo Cancer Institute, Teynampet

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### Dr Nikunj Kumar Dadhaniya, Rheumatology, Apollo Hospitals, Ahmedabad

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### Dr Patchva Dorababu, Pharmacology, AIMSR, Hyderabad

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| 264.   | Classification and regression tree-based prediction of 6-mercaptopurine – induced leucopenia grades in children with acute lymphoblastic leukemia | Shaik Mohammad Naushad, Patchava Dorababu, Yedluri Rupasree, Addepalli Pavani, Digumarti Raghunadharao, Tajamul Hussain, Salman A Alrokayan, Vijay Kumar Kutala | Cancer Chemotherapy and Pharmacology, 22nd February 2019 |

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| <b>Dr Pradeep M.V, Critical Care, Apollo Hospitals, Sheshadripuram</b>         |  |   |  |
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| 267.   | Severe Amlodipine Toxicity: A Case Rescued with Extracorporeal Membrane Oxygenation  | Anand Sutar, Pradeep M Venkategowda, Ashwini Murthy, Srinivas Budanur Chikkaswamy                     | Indian Journal of Critical Care Medicine, Volume 24: Issue 5, May 2020     |
| <b>Dr Pratheema Ramaehandrr, Critical Care, ASH, OMR</b>                       |  |   |  |
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| <b>Dr Prita Rakshit, Plastic Surgery, Apollo Gleneagles Hospitals, Kolkata</b> |  |   |  |
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| 269.   | An Experience Of Early Debridement And One-Stage Flap Reconstruction Of Decubitus Ulcers In A Tertiary Hospital  | Pritha Rakshit, Mainak Mallik, Saptarshi Bhattacharya   | Indian Journal of Applied Research, 2020                                   |
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| <b>Ms Priteka Toppo, Nursing Tutor, Indraprastha Apollo Hospitals, Delhi</b>   |  |   |  |
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| 271.   | A study to assess the effectiveness of structured teaching program regarding knowledge of immunization among the mothers of under five children in selected rural areas of New Delhi   | Ms Rendu Ravi, Ms D Maryline Flinsi   | IOSR Journal of Nursing and Health Science (IOSR-JNHS), March - April 2020 |

### Dr Punit Sharma, Nuclear Medicine, Apollo Gleneagles Hospitals, Kolkata

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### Dr Pushpendra Nath Renjen, Neurology, Indraprastha Apollo Hospitals, Delhi

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| 283.   | The association of left atrial enlargement in different subtypes of ischemic stroke based on toast classification  | Pushpendra N Renjen, Rahul Saini, Rajeev Kumar Rajput Dinesh Chaudhari | International Journal of Scientific Research May 2020           |
| 284.   | Diagnosis, pathophysiology, and treatment of normal pressure hydrocephalus: A review of current perspectives       | C Gupta, PN Renjen, D Chaudhari, A Mishra                              | Apollo Medicine, Volume 17: Issue 1, Page 10-15, 7th March 2020 |

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#### Dr R Dhananjayan, Biochemistry, Apollo Hospitals, Vanagaram

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| 289.   | A Review On Proton Therapy For Various Cancers  | Dr R Dhananjayan   | European Journal of<br>Biomedical and<br>Pharmaceutical sciences,<br>2020                                     |
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| 291.   | Effectiveness of student-oriented counselling on behaviour, attitude and academic performance of first year professional undergraduate students | Dr R Dhananjayan is the<br>last author out of total 6<br>authors | Biomedicine, October-<br>December 2019  |

#### Dr Rajeev Annigeri, Nephrology, Apollo Grems Hospitals, Chennai

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#### Dr Rajesh Thiyagarajan, Medical Physicist, APCC, Chennai

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#### Dr Raju Vaishya, Orthopedics, Indraprastha Apollo Hospitals, Delhi

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| 299.   | Wisely Choosing the Numbers during the Pandemic. Diabetes & Metabolic Syndrome  | Srinivas KBS, Vaishya R                 | Clinical Research & Reviews, 2020  |
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| 341. | Impact of COVID-19 pandemic on India   | Vaishya R, Vaish A, Babu SS                  | Apollo Medicine, 2020                                |
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#### Dr Prof. Rakesh Jalali, Oncology-Radiation, APCC, Chennai

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| 345.   | Coronavirus disease 2019 pandemic and its implications on triaging patients with brain tumors for surgery, radiotherapy, and chemotherapy | Rakesh Jalali, Jayant S Goda, Vijay Patil  | Cancer Research, Statistics and Treatment, 2020                                |
| 346.   | Surveys, debate, and contemporary practice: lessons to be learnt to improve neuro-oncology care   | Rakesh Jalali                              | Neuro-Oncology Practice, 2020  |

**Mr Ramesh CH, Quality Manager, Apollo Hospitals, Kakinada**

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**Dr Ramesh Venkataraman, Critical Care Medicine, Apollo Grems Hospitals, Chennai**

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**Dr Ramna Banerjee, Obstetrics and Gynaecology, Apollo Gleneagles Hospitals, Kolkata**

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### Dr Ramnathan, Quality Coordinator, Apollo Hospitals, Karaikudi

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### Dr Ramya Uppuluri, Pediatric Hematooncology, Apollo Cancer Institute, Teynampet

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**Dr Ravindra M Mehta, Pulmonary Medicine, Critical Care Medicine, Jayanagar and BG Road, Bangalore**

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**Dr Refai Showkathali, Cardiology, Apollo Grems Hospitals, Chennai**

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### Dr Renuka Masodkar, Oncology-Radiation, Indraprastha Apollo Hospitals, Delhi

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### Dr Revathi Raj, Pediatric Hematooncology, Apollo Cancer Institute, Teynampet

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### Dr Rishan Thimma Sudarsan, (Junior Consultant), Oncology-Radiation, APCC, Chennai

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### Dr Rohini Handa, Rheumatology, Indraprastha Apollo Hospitals, Delhi

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### Ms Rohini Sharma, Nursing-Vice Principal, Indraprastha Apollo Hospitals, Delhi

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### Dr Rohit Kiran Phadnis, General Surgery, AIMSR, Hyderabad

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| 377.   | Laparoscopic Cholecystectomy Insitus Inverses Totalis-A case report                                     | Dr Rohit Phadnis, Dr U Sowmya                                      | International Journal of Medical and Biomedical Studies, October 2019 |
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### Dr Ruqyaya Mir, Oncology, Indraprastha Apollo Hospitals, Delhi

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### Dr S K Sethi, Gastroenterology, Apollo Hospitals, Bhubaneswar

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### Mr Sachin Raval, Pharmacy, Apollo Hospitals, Ahmedabad

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### Dr Sachin Sambhaji Chemate, (Senior Resident), Neurosurgery, Apollo Cancer Institute, Teynampet

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| <b>Dr Saibal Moitra, Allergy and Immunology, Apollo Gleneagles Hospitals, Kolkata</b> |   |  |   |
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#### Dr Saju B Cherian, Anatomy, AIMS, Hyderabad

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#### Dr Saloni Naresh Shah, Histopathology and Cytology, Apollo Greaves Hospitals, Chennai

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| 404.   | Diffuse cavernous hemangioma of the uterus mimicking adenomyosis- A rare case report                                     | Saloni Naresh Shah, N Geetha   | Indian Journal of Obstetrics and Gynecology Research, 2020 |
| 405.   | Renal Microsporidiosis in Pediatric Bone Marrow Transplant Recipients: A Case Series                                     | Saloni Shah, Sheba Sweetline Jacob, Rama Mani, Ashok Parameswara, Sunil Kumar Rajeev A Annigeri, Raja Mahesh, Ramya Uppuluri | Turkish Journal of Pathology, 2020                         |

#### Dr Sambit Das, Endocrinology, Apollo Hospitals, Bhubaneswar

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| 406.   | BE-SMART (Basal Early Strategies to Maximize HbA1c Reduction with Oral Therapy): Expert Opinion                | Dr Sambit Das is the 6th author out of 44 authors               | Diabetes Ther, August 2019                                 |
| 407.   | Cardiovascular Effects of Sodium Glucose Co-transporter-2 Inhibitors in Patients with Type 2 Diabetes Mellitus | Surender Kumar, Pradeep G Talwalkar, Sambit Das, Soumik Goswami | Indian Journal of Endocrinology and Metabolism, March 2019 |

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#### Dr Sanjaykumar R Dalsania, Quality and Special Initiatives, Apollo Hospitals, Navi Mumbai

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| 414.   | Environmental Sustainability Through Green Innovations For Cost Reduction & Minimizing Carbon Footprints – A Case Study From Apollo Hospitals | Mr Jatin Pandya, Dr Sanjay Dalsania | OAKCOM International Conference on Sustainability and Business, 2019 |

#### Dr Saroj Kumar Sahu, Nuclear Medicine, Apollo Hospitals, Bhubaneswar

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#### Dr Seema Singhal, Histopathology and Cytology, Indraprastha Apollo Hospitals, Delhi

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| 419. | Giant-cell Tumor of the Metacarpal in a Young Female: A Rare Case Report | Seema Singhal, Chander Shekher | Apollo Medicine, 2020 |

#### Dr Shivaram Bharathwaj, Plastic Surgery, Apollo Cancer Institute, Teynampet

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#### Dr Shravan Bohra, Gastroenterology-Medical, Apollo Hospitals, Ahmedabad

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#### Dr Shreya Kar, (Registrar), Histopathology, Apollo Grems Hospitals, Chennai

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#### Dr Shyama Subramaniam, Biochemistry, Apollo Hospitals, Tondiarpet

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#### Dr Srinivas Chilukuri, Oncology-Radiation, APCC, Chennai

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| 431.   | PITChing (professional organisations, innovative trial designs and collaborative approach) for evidence generation for proton therapy | Srinivas Chilukuri, Pankaj Kumar Panda, Rakesh Jalali  | Radiation Oncology, 2020                        |
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| 434.   | Memantine for Prevention of Brain Irradiation- Induced Cognitive Toxicity: A Tale of an Underappreciated and Underused Intervention   | Srinivas Chilukuri, and Nagarjuna Burela   | JCO Global Oncology, 2020                       |
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#### Dr Srinjoy Saha, Plastic Surgery, Apollo Gleneagles Hospitals, Kolkata

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| 437.   | Triple-Plane Dissection of Combined Forehead and Scalp Flaps for Large Posttraumatic Forehead Defects | Srinjoy Saha                   | International Journal of Recent Surgical and Medical Sciences, Volume 6: Issue 1, 2020 |
| 438.   | A rare presentation of superficial, inter-muscular, cystic, extraspinal schwannoma over upper back    | Srinjoy Saha                   | Neurologico Spinale Medico Chirurgico, 2020  |

**Dr Subir Ray, Diabetes and Endocrinology, Apollo Gleneagles Hospitals, Kolkata**

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| 440.   | Management of diabetes in patients with COVID-19  | Jagat J Mukherjee Kalyan K Gangopadhyay Subir Ray   | The lancet Diabetes and Endocrinology, August 2020                   |
| 441.   | Pros and cons for use of statins in people with coronavirus disease-19 (COVID-19)                                   | Ray Subir, Mukherjee Jagat J, Gangopadhyay Kalyan K | Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2020 |
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**Dr Sudipta Sekhar Das, Transfusion Medicine/ Blood Bank, Apollo Gleneagles Hospitals, Kolkata**

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| 444.   | Successful Convalescent Plasma Therapy in a Child With Severe Coronavirus Disease  | Sudipta Sekhar Das, Kaustabh Chaudhuri, Rathindra Nath Biswas              | Indian Pediatrics, 2020                                  |
| 445.   | An insight into the encountered challenges and performances of a hospital-based blood transfusion service in Eastern India in the light of COVID-19 pandemic                               | Sudipta Sekhar Das, Rathindra Nath Biswas, Rafique Uz Zaman                | Global Journal of Transfusion Medicine, 2020             |
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### Dr Suman Hazarika, Radiology and Imaging, Apollo Hospitals, Guwahati

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| 451.   | Bilateral Bone Anchored Hearing aids: A Case Report on Right Side Percutaneous and Left Side Transcutaneous      | Swathi Vadlamani, Apurva Kumar, Sumit Kumar Gaur, Sunil Narayan Dutt, Mohan Kameswaran   | Indian Journal of Otolaryngology And Head & Neck Surgery, 2020           |
| 452.   | Intra-ductal Foreign Body (Fish Bone Fragment) as a Cause of Obstructive Sialadenitis: A Case Report             | Swathi Vadlamani, Aditya Moorthy, Prithvi S Bachalli, Sumit Kumar Gaur, Sunil Narayan Dutt   | Indian Journal of Otolaryngology And Head & Neck Surgery, 2020           |
| 453.   | Cochlear Implant in a Child with a Large Arachnoid Cyst and Cysto-peritoneal Shunt                               | Aanchal Aggarwal Mittal, Apurva Kumar, Abhilash Bansal, Sumit Kumar Gaur, Sunil Narayan Dutt   | Indian Journal of Otolaryngology and Head & Neck Surgery, September 2020 |

### Dr Sunil Narayan Dutt, ENT, Apollo Hospitals, Bangalore

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### Dr Suresh Babu YS, Orthopedics, Indraprastha Apollo Hospitals, Delhi

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### Dr Suvro Banerjee, Cardiology, Apollo Gleneagles Hospitals, Kolkata

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| 460.   | Non-vitamin K Oral Anticoagulant prescription for stroke prevention in atrial fibrillation: Perceptions among physicians in a metropolis | Saumitra Ray, Suvro Banerjee                        | Journal of Indian Medical Association (JIMA), September 2020  |
| 461.   | Integrated Management of Patients on Anti-coagulation Therapy (IMPACT): A Review and Expert Opinion                                      | Suvro Banerjee, Aparna Jaswal and Y Shiva Kumar     | EC Cardiology, 30th December 2020   |

### Dr Swarnalata G, Histopathology, Apollo Jubilee Hills, Hyderabad

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**Dr Swetha Lakshmi Narla, Histopathology, Apollo Cancer Institute, Teynampet**

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| 467.   | Cystic trophoblastic tumor - The effect of chemotherapy in metastatic testicular germ cell tumor to retroperitoneal lymph nodes         | Swetha Narla, Ann Kurian, Rajarajan Venkatesan, Ajit Pai        | Urol Ann, January-March 2020                                   |
| 468.   | Ovarian cystic lymphangioma: A rare case report with review of literature   | Swetha Narla, Arshee Badar, Ann Kurian,                         | International Journal of Pathology and Clinical Research, 2020 |
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**Dr Syamasis Bandopadhyay, Medicine, Apollo Gleneagles Hospitals, Kolkata**

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| 470.   | Modified Dose Rituximab Biosimilar In Rheumatoid Arthritis Comparing B-Cell Depletion Effect And Disease Activity Scores | Dr Syamasis Bandopadhyay       | Annals of the rheumatic disease, 2020 |

**Dr T Jayanthi, Nursing-Medical Surgery, AIMS, Hyderabad**

| S. No. | Topic  | Authors and Co-authors details  | Publishing Journal and date  |
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| 471.   | Effectiveness of structured group reminiscence therapy in decreasing the feelings of loneliness, depressive symptoms and anxiety among inmates of a residential home for the elderly | Jayanthi Tarugu, R Pavithra, Sivagami Vinothchandar, Aniruddha Basu, Sirshendu Chaudhur, K R John | International Journal of Community Medicine and Public Health, February 2019 |

**Dr Thulasi Raman, (Associate Consultant), Hematooncology, Apollo Cancer Institute, Teynampet**

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| 472.   | Mendelian Susceptibility to Mycobacterial Disease Masquerading as Lymphoproliferative Disorder | Thulasi Raman Ramalingam, Deenadayalan Munirathnam                | Journal of Applied Hematology, 2020 |
| 473.   | Anaplastic plasma cell myeloma-A morphological dilemma   | Thulasi Raman Ramalingam, Lakshman Vaidhyathan, Prabu Pandurangan | Images in Clinical Hematology, 2020 |

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**Dr Ujjwayini Ray, Microbiology, Apollo Gleneagles Hospitals, Kolkata**

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| 476.   | Pertussis: Re-emergence or underdiagnosed? | Ujjwayini Ray, Soma Dutta      | Lung India, 2020            |

**Dr Uma Unnikrishnan, Biochemistry, AIMSR, Hyderabad**

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| 477.   | A Study on the Estimation of Serum Lipid Profile in Newly Diagnosed Hypertensive Patients | Dr Naveena Thotakura, Dr Uma Unnikrishnan, Dr C Rekha | International Journal of Current Advanced Research, May 2019                    |
| 478.   | A Study on Students Perception Towards Small Group Discussion-Sgd                         | Dr Uma Unnikrishnan, Dr C Rekha                       | International Journal of Scientific Research, Volume 9: Issue 9, September 2020 |

**Dr V M Elanqkumaran, (Senior Resident), Emergency Medicine, Apollo Hospitals, Tondiarpet**

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| 479.   | Gall Stone Ileus with Cholecystoduodenal Fistula | Elankumaran Vellode Manoharan, P Kanakarajan, G Ramkumar, E Selvakumar | Apollo Medicine, 2019       |

**Dr Venkatesh HK, Neuroanesthesia , Apollo Hospitals, Bangalore**

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| 480.   | Effective site concentration of protocol at induction and recovery of anesthesia : a corelative dose response study | Vasant Sukumar, Arathi R, Venatesh HK | Indian Journal of Anesthesia, Volume 62, 2020 |

### Dr Venkateswaran VS, Pediatric Hematooncology, Apollo Cancer Institute, Teynampet

| S. No. | Topic  | Authors and Co-authors details  | Publishing Journal and date  |
|--------|--|---|--|
| 481.   | Augmented immunosuppression and PTCY-based haploidentical hematopoietic stem cell transplantation for thalasemia major   | Venkateswaran Vellaichamy Swaminathan, Nikila Ravichandran, Kesavan Melarcode Ramanan, Satish Kumar Meena, Harika Varla, Balasubramaniam Ramakrishnan, Indra Jayakumar, Ramya Uppuluri, Revathi Raj       | Pediatric Transplantation, October 2020  |
| 482.   | Treosulfan-based reduced toxicity hematopoietic stem cell transplantation in X-linked agammaglobulinemia: A cost-effective alternative to long-term immunoglobulin replacement in developing countries | Venkateswaran Vellaichamy Swaminathan, Ramya Uppuluri, Shivani Patel, Kesavan Melarcode Ramanan, Nikila Ravichandran, Indira Jayakumar, Lakshman Vaidhyanathan, Revathi Raj                               | Pediatr Transplant, February 2020  |
| 483.   | Matched Family versus Alternative Donor Hematopoietic Stem Cell Transplantation for Patients with Thalassemia Major: Experience from a Tertiary Referral Center in South India                         | Venkateswaran Vellaichamy Swaminathan, Ramya Uppuluri, Shivani Patel, Nikila Ravichandran, Kesavan Melarcode Ramanan, Lakshman Vaidhyanathan, Balasubramaniam Ramakrishnan, Indira Jayakumar, Revathi Raj | Biology of Blood and Marrow Transplantation, Volume 26: Issue 7: Pages 1326-1331, July 2020, |
| 484.   | Safety and efficacy of fresh whole blood donor lymphocyte infusion in children   | V Swaminathan, R Uppuluri, S Patel, Meena Sivashankaran, Nikila Ravichandran, K Ramanan, B Ramakrishnan, Lakshman Vaidhyanathan, R Raj  | Bone Marrow Transplantation, Volume 54: Page 1892-1897, 2019                                 |

### Dr Vidya Venkatesan, ENT, Apollo Grems Hospitals, Chennai

| S. No. | Topic  | Authors and Co-authors details                                     | Publishing Journal and date                 |
|--------|--|--|---|
| 485.   | Incidental Cancers in Asymptomatic Adults: Role of torhinolaryngologistin Routine Health Checkup | Vidya Venkatesan, Abdul Rub Hakim Mohammed, Udhaya Balasubramanian | Glob J Otolaryngol Volume 23: Issue 3, 2020 |

### Dr Vimme Bindra, Gynecology and Obstetrics, Apollo Jubilee Hills, Hyderabad

| S. No. | Topic  | Authors and Co-authors details   | Publishing Journal and date   |
|--------|--|--|---|
| 486.   | A Case of Idiopathic Chylous Ascites Simulating Rupture of Hemorrhagic Cyst in the Ovary   | Vimee Bindra, P Sarada   | Journal of Minimally Invasive Gynecology, March 2019                |
| 487.   | Laparoscopic Management of Chronic Pelvic Abscess which Turned out to be Textilloma or Gossypiboma   | Bindra V, Das PJ, Sarada P   | Austin Journal of Clinical Case Reports, 31 December 2018           |
| 488.   | Laparoscopic Management Of Gossypiboma Masquerading As An Ovarian Tumour   | Vimee Bindra, Nikitha Reddy  | Obstetrics and Gynaecology Insights, 3rd January 2019               |
| 489.   | Large Solitary Luteinized Follicular Cyst of Pregnancy and Puerperium in Ruptured Ectopic Pregnancy Managed Laparoscopically                             | Vimee Bindra, Frsha Nozer Taraporewalla, Aditya D Kulkarni, Neha Agrawal | Journal of Case Reports in Medicine, February 2019                  |
| 490.   | Telemedicine for Women's Health During COVID-19 Pandemic in India: A Short Commentary and Important Practice Points for Obstetricians and Gynaecologists | Vimee Bindra   | The Journal of Obstetrics and Gynecology of India, July-August 2020 |
| 491.   | Laparoscopic management of massive recurrent endometrioma with atypical presentation: A case report  | Vimee Bindra, Anusha Rao Ponnamaneni                                     | Journal of Endometriosis and Pelvic Pain Disorders, 2020            |

### Dr Vinit Kumar Srivastava, Anaesthesiology, Apollo Hospitals, Bilaspur

| S. No. | Topic   | Authors and Co-authors details  | Publishing Journal and date                   |
|--------|---|---|---|
| 492.   | Efficacy of tropium for prevention of catheter-related bladder discomfort: a prospective, randomized, placebo controlled, double-blind study                                  | Vinit Kumar Srivastava, Sanjay Agrawal, Sweta Anil Deshmukh, Febin Noushad, Saima Khan, Raj Kumar         | Korean Journal of Anesthesiology, 2020        |
| 493.   | Comparison of palonosetron-dexamethasone and ondansetron-dexamethasone for prevention of postoperative nausea and vomiting in middle ear surgery: a randomized clinical trial | Vinit Kumar Srivastava, Saima Khan, Sanjay Agrawal, Sweta Anil Deshmukh, Pooja Shree, Partha Pratim Misra | Rev Bras Anesthesio I, September-October 2020 |

### Dr Vinit Suri, Stroke and Epilepsy, Indraprastha Apollo Hospitals, Delhi

| S. No. | Topic   | Authors and Co-authors details  | Publishing Journal and date                                      |
|--------|---|---|--|
| 494.   | Sternal Rhabdomyosarcoma presenting as Generalized Serapositive Myasthenia Gravis | Vinit Suri, Mohit Kalangi Venkata Naga, Swapnil Jain, Kunal Suri                              | JMSCR, Volume 7: Issue 9: Page 605-608, September 2020           |
| 495.   | Listeria Monocytogenes brain abscess in an immunocompromised patient              | Vinit Suri, S Chatterjee, Rohini Handa, Swapnil Jain, Mohit Kalangi Venkata Naga, Kanika Suri | International Journal of Research in Medical Sciences, July 2020 |

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

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|------|--|---|--|
| 496. | Decompressive craniectomy in herpes simplex encephalitis   | Vinit Suri, S Chatterjee, Rohini Handa, Swapnil Jain, Mohit Kalangi Venkata Naga, Kanika Suri | International Journal of Research in Medical Sciences, July 2020 |
| 497. | Neurological Manifestations of Covid-19 (Severe Acute Syndrome Respiratory syndrome) Coronavirus 2     | Vinit Suri, Kunal Suri, Swapnil Jain, Kanika Suri   | Apollo Medicine, 2020  |
| 498. | Consensus statement suggested recommendations for acute stroke management during the Covid 19 pandemic | Vinit Suri is the 5th author out of 11 authors  | Ann Indian Acad Neurol, April 2020                               |

#### Capt Usha Banerjee, Group Director Nursing Apollo Hospitals Group, Indraprastha Apollo Hospitals, Delhi

| S. No. | Topic   | Authors and Co-authors details   | Publishing Journal and date  |
|--------|---|--|--|
| 499.   | Nursing Speciality Services USB (United Services with Benefits)   | Capt Usha Banerjee, Ms N Rathina, Ms Simmy Rajan                           | IOSR Journal of Nursing and Health Science (IOSR-JNHS), September-October 2019 |
| 500.   | Golden Gloves: Customer is King - Let's roll out the red carpet   | Capt Usha Banerjee, Ms N Rathina, Ms Rohini Sharma                         | IOSR Journal of Nursing and Health Science (IOSR-JNHS), March- April 2020      |
| 501.   | Effectiveness of certificate program on neuroscience nursing  | Capt Usha Banerjee, Ms Geemol John, Ms D Maryline flinsi                   | International Journal of Scientific Research, April 2020                       |
| 502.   | CTC-crafting the core   | Capt Usha Banerjee, Ms Simmy Rajan, Rathina, N                             | International Journal of Development Research, 30th April 2020                 |
| 503.   | Right Care at the Right Time (Critical Care Nursing) Effectiveness of Centre of Excellence (COE) on Critical Care Nursing                                       | Capt Usha Banerjee, Ms N Rathina, Mr Dipin P Nair, Ms Wairkpam Nalini Devi | International Journal of Science and Research, 6th June 2020                   |
| 504.   | Effectiveness of center of excellence campaign on pediatric nursing   | Capt Usha Banerjee, Ms Mariamma Jose, Ms D Maryline Flinsi                 | International Journal of Advance Research (IJAR), 4th July 2020                |
| 505.   | Effectiveness of centre of excellence campaign on neonatal nursing  | Capt Usha Banerjee, Memota Maryline Flinsi                                 | International Journal of Development Research (IJDR), 27th July 2020           |
| 506.   | Nursing Contribution to Cope COVID -19 Infection with Courage and Compassion Department of Nursing Apollo Delhi, Indraprastha Apollo Hospital, New Delhi, India | Capt Usha Banerjee, Ms Rathina, N Dr Ramesh Sarin                          | Apollo Medicine, 14th August 2020  |



# Consultants' Achievements

# Consultants' Achievements

## Apollo Children's Hospitals

### 1. Dr C Satheesh

Pediatrics, Apollo Children's Hospitals, Chennai

#### Publications

Dr N Mahesh, Dr C Satheesh, Dr Suchitra Ranjit, Dr Hima Bindu V, Reporting an unusual case of childhood Myasthenia gravis, Journal of Neurology Research Review and Reports, Volume 2: Issue 1: Page 1 – 2, February 2020

D Vijaya Sekaran, Ayesha Shahanaz, C Satheesh, Hima Bindu Vipparthi, Subtle Clinical presentation of Pulmonary alveolar microlithiasis, Journal of Indian Paediatrics, Volume 57: Issue 8: Page 759-760, 15th August 2020

#### Examinership

Examiner, DNB Paediatrics Practical, July 2020

Examiner, National Board of Examinations, Apollo Hospitals, Chennai, November 2020

### 2. Dr D Vijayasekaran

Pediatric Pulmonology, Apollo Children's Hospital, Chennai

#### Publications

D Vijayasekaran, S Kalpana, COVID-19 Pandemic: The way forward– Correspondence, Indian J Pediatr, Volume 1, 4th November 2020

Vijayasekaran D, Shahnaz A, Satheesh C, Subtle clinical presentation of pulmonary alveolar

microlithiasis, Indian Pediatr, Volume 57: Issue 8: Page 759-760, 15th August 2020

### 3. Dr Dhanasekhar Kesavelu

Paediatric Gastroenterology, Apollo Children's Hospital, Chennai

#### Publications

D Kesavelu, L Sreedharan, K Anusya Devi, Nutritional status in Indian children with Crohn's disease: A single-centre experience, Clinical Nutrition ESPEN, Volume 40: Page 673, December 2020

Dhanasekhar Kesavelu, Nithya Franklyn, Lekha Sreedharan, Can Nutrition Play a Role as a Stimulant for COVID 19 in Children?, Rev Recent Clin Trials, doi: 10.2174/1574887115666201104154713, 4th November 2020

Kesavelu D, Sridhar M, Satheesan R, Successful medical management of a child with superior mesenteric artery syndrome, Int J Cur Res Rev, Volume 12: Issue 21: Page 35-37, November 2020

D Kesavelu, Rohit A, Karunasagar I, Karunasagar I, Composition and Laboratory Correlation of Commercial Probiotics in India, Cureus, Volume 12: Issue 11: Page e11334, 5th November 2020

Dhanasekhar Kesavelu, Jo-Anne De Castro, Keya Rani Lahiri, Nataruks Chaijitraruch, Voranush Chongsrisawat, Pramod Prabhakar Jog, Yun Haw Liaw, Gia Khanh Nguyen, Thi Viet Ha Nguyen, Uday Ananth Pai, Huu Nguyet Diem Phan, Seng Hock Quak, Pornthep Tanpowpong, Mary Jean

Guno, Recommendations for the adjuvant use of the poly-antibiotic-resistant probiotic *Bacillus clausii* (O/C, SIN, N/R, T) in acute, chronic, and antibiotic-associated diarrhoea in children: consensus from Asian experts, *Trop Dis Travel Med Vaccines*, Volume 6: Page 21, 23rd October 2020

Dhanasekhar Kesavelu, Prakash Agarwal, RK Bagdi, Cecal volvulus in a child with Cornelia de Lange syndrome, *J Pediatr Adolesc Surg*, Volume 1: Issue 1: Page 62-63, 2020

Dhanasekhar Kesavelu, The efficacy and safety of combined senna and probiotic-based bowel preparation for colonoscopy in children, *Cureus*, Volume 12: Issue 9: Page e10180, September 2020

Dr Dhanasekhar Kesavelu, *L.reuteri* DSM 17938 in the Management of Infantile colic in indian children, *International Journal of Multidisciplinary and Current Research*, Volume 8: Page 701-702, September – October 2020

Dhanasekhar Kesavelu, K Sheela Kannuchamy, Overview and preventive strategies of coronavirus among healthcare communities, *Int J Cur Res Rev*, Volume 12: Issue 15: Page 2-6, August 2020

Dr Dhanasekhar Kesavelu, *Lactobacillus rhamnosus* GG (ATCC 53103) in the management of acute diarrhea in children, *International Journal of Science and Research (IJSR)*, Volume 9: Issue 7: Page 1422- 1423, July 2020

Dr Dhanasekhar Kesavelu, Dr Sheela Kannuchamy, Evaluation of telemedicine among healthcare professionals and general population- A cross sectional study, *NOVYI MIR Research Journal*, Volume 5: Issue 8: Page 190-2020, November 2020

Dhanasekhar Kesavelu, Kathleen Brown, Colin Baillie, Wael El-Matary, A Mark Dalzell, Excessive juice drinking causing symptomatic hyponatraemia

in a patient with gastrointestinal pseudo – obstruction and congenital short bowel, *Journal of Medical Science and Clinical Research*, Volume 8: Issue 6: Page 479-481, June 2020

Dr Dhanasekhar Kesavelu, Food allergies in Indian Children, Time to sensitize clinicians, *Now!, IOSR Journal of Dental and Medical Sciences*, Volume 19: Issue 6: Page 28-29, June 2020

Dr Dhanasekhar Kesavelu, Dr K Sheela, Dr Rathika Rai, Awareness and preventive measures to the threat of covid 19 infection, *International Journal of Scientific Research*, Volume 9: Issue 5: Page 67-69, May 2020

Dhanasekhar Kesavelu, Keerthi Pai, Krishna Chaitanya Veligandla, Functional gastrointestinal symptoms in children – insights from a tertiary children hospital, *International Journal of Clinical Pediatrics*, Volume 9: Issue 2: Page 31-34, June 2020

## Presentations

Poster presentation, Critical analysis of medical probiotics in India, 6th World Congress of Pediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, Denmark, June 2020

## Professional Societies' Positions

Member, General Medical council

Member, Royal College Of Paediatrics And Child Health

Member, British Society of paediatric Gastroenterology Hepatology and Nutrition (BSPGHAN)

Member, Indian Society of Paediatric gastroenterology Hepatology and Nutrition (ISPGHAN)

Member, Tamilnadu Medical council

Member, British Association of Physicians of Indian Origin

#### 4. Dr M S Viswanathan

Medical Gastroenterology, Apollo Children's Hospital, Chennai

##### Awards

Active Pediatrician Award, Indian Academy of Pediatrics (IAP) Tamil Nadu State, December 2020

#### 5. Dr Srikanth

Ophthalmology, Apollo Children's Hospital, Chennai

##### Editorial Boards Membership

Reviewer, Indian Journal of Ophthalmology (IJO)

Editorial Assistant, Asia Pacific Journal of Ophthalmology, since 2018

Reviewer, Asia Pacific Journal of Ophthalmology, since 2018

## AFMH

#### 6. Dr Dinesh Choudary

Orthopaedics, Apollo First Med Hospitals, Chennai

##### Book Published

Editor- Dr Dinesh Choudary, The Exercise Prescription, WordPress.org, 2020

##### Professional Societies' Positions

Member, Indian Orthopaedic Association (IOA), since 2012

Member, Indian Society of Hip and Knee Surgeons (ISHKS), since 2015

Member, Tamil Nadu Orthopaedic Society (TNOA), since 2010

Member, Indian Arthroscopy Society (IAS), since 2016

Member, International Society For Knowledge of Surgeons on Arthroscopy and Arthroplasty (ISKSA), since 2017

Member, Society Internationale of Chirurgie and Orthopaedics Traumatologie (SICOT), since 2011

Member, Tamil Nadu Arthroscopy Society (TNAS), since 2015

## Apollo Proton Cancer Centre

#### 7. Dr Adhithyan R

Radiology, Apollo Proton Cancer Centre, Chennai

##### Awards

Dr Kishor Taori Gold Medal, Indian Radiological Imaging Association, National Conference, Ahmedabad, Gujarat, 24th January 2020

#### 8. Dr Ajit Shinto

Nuclear Medicine and Theranostics, Apollo Proton Cancer Centre, Chennai

##### Publications

Ajit Sugunan Shinto, Kamaleshwaran K Karuppusamy, Radhakrishnan E R Kurup, Arun Pandiyan, Arnold V Jayaraj, Empirical 188Re-HDD/lipiodol intra-arterial therapy based on tumor volume, in patients with solitary inoperable hepatocellular carcinoma, Nucl Med Commun, Volume 42: Issue 1: Page 43-50, September 2020

#### 9. Dr Ashwathy Susan Mathew

Radiation Oncology, Apollo Proton Cancer Centre, Chennai

##### Publications

Mathew AS, Atenafu EG, Owen D, Long term outcomes of stereotactic body radiation therapy for hepatocellular carcinoma without macrovascular

invasion, Eur J Cancer Volume 134: Page 41-51, July 2020

## 10. Dr Dayananda S Sharma

Medical Physicist, Apollo Proton Cancer Centre, Chennai

### Publications

Dayananda Sharma Shamurailatpam, Manthala Padannayil Noufal, Lamberto Widesott, Roberto Righetto, Marco Cianchetti, Marco Schwarz, The role of plan robustness evaluation in comparing protons and photons plans - An application on IMPT and IMRT plans in skull base chordomas, Journal of Medical Physics, Volume 45: Issue 4: Page 206-214, 2020

Dayananda Sharma Shamurailatpam, Suresh Rana, Mark Storey, Noufal Manthala Padannayil, Jaafar Bennouna, Jerry George, John Chang, Investigating the utilization of beam-specific apertures for the intensity-modulated proton therapy (IMPT) head and neck cancer plans, Med Dosim, Volume S0958-3947: Issue 20: Page 30155-2, 24th November 2020

Sharma DS, Proton therapy physics (Second Edition), Journal of Med Phys, Volume 45: Issue 3: Page 195-196, 2020

Shamurailatpam DS, Manikandan A, Ganapathy K, Characterization and performance evaluation of the first-proton therapy facility in india, J Med Phys, Volume 45: Issue 2: Page 59-65, 2020

## 11. Dr Naveen Hedne

Surgical Oncology, Apollo Proton Cancer Centre, Chennai

### Publications

Naveen Chandrasekhar Hedne, Smita Caren Mathias, B S Premalatha, Nimisha Nujum, Examining the use of voice handicap index in

patients with pharyngeal cancer undergoing organ preservation, Int J Health Sci Res, Volume 10: Issue 9: Page 447-453, 2020

## 12. Dr Noufal MP

Medical Physicist, Apollo Proton Cancer Centre, Chennai

### Publications

Manthala Padannayil Noufal, Lamberto Widesott, Shamurailatpam Dayananda Sharma, Roberto Righetto, Marco Cianchetti, Marco Schwarz, The role of plan robustness evaluation in comparing protons and photons plans - An application on IMPT and IMRT plans in skull base chordomas, Journal of Medical Physics, Volume 45: Issue 4: Page 206-214, 2020

Noufal Manthala Padannayil, Suresh Rana, Mark Storey, Dayananda Sharma Shamurailatpam, Jaafar Bennouna, Jerry George, John Chang, Investigating the utilization of beam-specific apertures for the intensity-modulated proton therapy (IMPT) head and neck cancer plans, Med Dosim, Volume S0958-3947: Issue 20: Page 30155-2, 24th November 2020

## 13. Dr Pankaj Kumar Panda

Research Officer, Apollo Proton Cancer Centre, Chennai

### Publications

Panda PK, Stockler MR, Gulia A, Clinical research during coronavirus disease pandemic: Challenges and way forward, Indian J Med Sci, Volume 72: Issue 2: Page 101-106, 2020

Ashish Gulia, Ramandeep Singh Arora, Pankaj Kumar Panda, Anand Raja, Akshay Tiwari, Sameer Bakhshi, Naveen Salins, Vineeta Goel, Amit Janu, adapting management of sarcomas in COVID-19: an evidence-based review, JOIO, Page 1-13, 30th May 2020



## 14. Dr Rajesh Thiyagarajan

Medical Physicist, Apollo Proton Cancer Centre, Chennai

### Publications

Thiyagarajan R, Sharma D S, Kaushik S, Sawant M, Ganapathy K, Nambi Raj NA, Chilukuri S, Sundar S C, Patro K C, Manikandan A, Noufal MP, Sivaraman R, Easow J, Jalali R, Leaf open time sinogram (LOTS): a novel approach for patient specific quality assurance of total marrow irradiation, *Radiat Oncol*, Volume 15: Issue 1: Page 236, 14 October 2020

## 15. Dr Rakesh Jalali

Medical Director, Apollo Proton Cancer Centre, Chennai

### Publications

Rakesh Jalali, Abhishek Chatterjee, Jayant S Goda, Tejpal Gupta, Rashmi Kamble, Smruti Mokul, Rahul Krishnatry, Rajiv Sarin, A randomized trial of stereotactic versus conventional radiotherapy in young patients with low-grade brain tumors: occupational therapy-based neurocognitive data, *Neuro-Oncology Advances*, Volume 2: Issue 1: Page 1-10, 1st October 2020

Rakesh Jalali, Jifmi Jose Manjali, Tejpal Gupta, Sarbani Ghosh-Laskar, Rajiv Sarin, Jai Prakash Agarwal, Pilot testing and vernacular translation of a questionnaire for assessment of satisfaction in patients on radiotherapy in India, *Indian J Cancer*, doi: 10.4103/ijc.IJC\_466\_19, 24th November 2020

Jalali R, Saini G, In Regard to Fisher et al, *Int J Radiat Oncol Biol Phys*, Volume 108: Issue 4: Page 1117-1118, 15th November 2020

Jalali R, Maitre P, Gupta T, Maitre M, Goda J, Krishnatry R, Chatterjee A, Sridhar E, Sahay A, Mokul S, Moiyadi A, Shetty P, Patil V, Prospective longitudinal assessment of quality of life and

activities of daily living as patient-reported outcome measures in recurrent/progressive glioma treated with high-dose salvage re-irradiation, *Clin Oncol (R Coll Radiol)*, Volume S0936-6555: Issue 20: Page 30360-5, 8th September 2020

Jalali R, Dutta D, Impact of systemic therapies on cognition in patients with primary brain tumors, *Cancer Res Stat Treat*, Volume 3: Page 569-71, 2020

Jalali R, Gupta T, Singh V P, Balasubramian A, Menon H, Kurkure P A, Kumar S, ISNO Position statement on treatment guidance in neuro-oncology during pandemics, *Neurol India*, Volume 68: Issue 4: Page 769-773, July-August 2020

Rakesh Jalali, Srinivas Chilukuri, Nagarjuna Burela, Ramya Uppuluri, D Indumathi, Sapna Nangia, Pankaj Kumar Panda, Dayananda Sharma Shamurailatpam, Revathi Raj, Thirumalai Raja, Preliminary experience of treating children and young adults with image-guided proton beam therapy in India, *JCO Glob Oncol*, Volume 6: Page 1736-1745, November 2020

Jalali R, Pande A, Rajaraman N, Sadiya N, Patil S, Pandian S, Adhithyan R, Rajendran B, Ghosh S, Spinal drop metastasis of glioblastoma-two case reports, clinicopathologic features, current modalities of evaluation, and treatment with a review of the literature, *World Neurosurg*, Volume 146: Page 261-269, 5th November 2020

Jalali R, Thiyagarajan R, Sharma D S, Kaushik S, Sawant M, Ganapathy K, Nambi Raj NA, Chilukuri S, Sundar S C, Patro K C, Manikandan A, Noufal MP, Sivaraman R, Easow J, Leaf open time sinogram (LOTS): a novel approach for patient specific quality assurance of total marrow irradiation, *Radiat Oncol*, Volume 15: Issue 1: Page 236, 14 October 2020

Rakesh Jalali, Srinivas Chilukuri, Sham Sundar, Rajesh Thiyagarajan, Jose Easow, Mayur Sawant,

Ganapathy Krishanan, Pankaj Kumar Panda, Dayananda Sharma, Total marrow and lymphoid irradiation with helical tomotherapy: a practical implementation report, *Radiat Oncol J*, Volume 38: Issue 3: Page 207-216, September 2020

Jalali R, Chilukuri S, Reassuring quality of life in younger childhood (<4 years) brain tumor survivors treated with proton beam therapy, *Neuro Oncol*, Volume 22: Issue 9: Page 1243-1244, 29th September 2020

Jalali R, Chilukuri S, Panda PK, PITCHing (professional organisations, innovative trial designs and collaborative approach) for evidence generation for proton therapy, *Radiat Oncol*, Volume 15: Issue 1: Page 138, 1st June 2020

Jalali R, Patil VM, Bhelekar A, Menon N, Bhattacharjee A, Simha V, Abhinav R, Abhyankar A, Sridhar E, Mahajan A, Puranik AD, Purandare N, Janu A, Ahuja A, Krishnatry R, Gupta T, Reverse swing-M, phase 1 study of repurposing mebendazole in recurrent high-grade glioma, *Cancer Med*, Volume 9: Issue 13: Page 4676-4685, July 2020

Jalali R, Budrukhar A, Telkhade T, Wadasadawala T, Shet T, Upreti RR, Badwe R, Gupta S, Sarin R., A comparison of long-term clinical outcomes of accelerated partial breast irradiation using interstitial brachytherapy as per GEC-ESTRO, ASTRO, updated ASTRO, and ABS guidelines, *Brachytherapy*, Volume 19: Issue 3: Page 337-347, May – June 2020

Jalali R, Goda JS, Dutta D, Krishna U, Goswami S, Gupta T, Kothavade V, Kannan S, Maitre M, Bano N, Hippocampal radiotherapy dose-constraints for predicting long-term neurocognitive outcomes: Mature data from a prospective trial in young patients with brain tumors, *Neuro Oncol*, Volume 22: Issue 11: Page 1677-1685, 26th November 2020

Jalali R, Tonse R, Noufal MP, Deopujari CE, India's First proton beam therapy pediatric patient, *neuro India*, Volume 68: Issue 1: Page 189-191, January-February 2020

Jalali R, Tonse R, Chilukuri S, Shamurailatpam D, Introduction of image-guided pencil beam for skull base tumors in india: a report of two cases and a brief review of the literature, *Neuro India*, Volume 68: Issue 1: Page 42-44, January- February 2020

Jalali R, Surveys, debate, and contemporary practice: lessons to be learnt to improve neuro-oncology care, *Neurooncol Pract*, Volume 7: Issue 1: Page 1-2, January 2020

#### Awards

Fellowship, Indian College of Radiation Oncology (FICRO), September 2020

### 16. Dr Raymond Dominic Savio

Critical Care, Apollo Proton Cancer Centre, Chennai

#### Publications

Raymond D Savio, Deven Juneja, Shrikanth Srinivasan, Rahul A Pandit, Suresh Ramasubban, Pavan K Reddy, Manoj K Singh, Palepu Bn Gopal, Dhruva Chaudhry, Deepak Govil, Subhal B Dixit, Srinivas Samavedam, Basic critical care for management of COVID-19 Patients: position paper of the indian society of critical care medicine, part II, *Indian J Crit Care Med*, Volume 24: Issue (Suppl 5): Page S254-S262, November 2020

Raymond Dominic Savio, Archana Gautam, Jojo Kurien John, Evaluation of efficiency of various treatment modalities and outcome in patients with hyponatremia admitted to ICU, *International Journal of Health and Clinical Research*, Volume 3: Issue 7: Page 7-35, 2020

Neill K J Adhikari, Rajeshwari Arali, Udara

Attanayake, Sampath Balasundaram, Abi Beane, Vijay Chakravarthy, Niyaz Channanath Ashraf, Sri Darshana, Dedeepiya Devaprasad, Arjen M Dondorp, Robert Fowler, Rashan Haniffa, Pramodya Ishani, Augustian James, Issrah Jawad, Devachandran Jayakumar, Chamira Kodipilly, Rakesh Laxmappa, Kishore Mangal, Ashwin Mani, Meghena Mathew, Sristi Patodia, Rajyabardhan Pattnaik, Dilanthi Priyadarshini, Mathew Pulicken, Ebenezer Rabindrarajan, Pratheema Ramachandran, Kavita Ramesh, Usha Rani, Suchitra Ranjit, Ananth Ramaiyan, Nagarajan Ramakrishnan, Lakshmi Ranganathan, Thalha Rashan, Raymond Dominic Savio, Jaganathan Selva, Bharath Kumar Tirupakuzhi Vijayaraghavan, Swagata Tripathy, Timo Tolppa, Ishara Udayanga, Ramesh Venkataraman, Deepak Vijayan, Implementing an intensive care registry in India: preliminary results of the case-mix program and an opportunity for quality improvement and research, Welcome Open Res, Volume 5: Page 182, 21st October 2020

## 17. Dr Srinivas Chilukuri

Radiation Oncology, Apollo Proton Cancer Centre, Chennai

### Publications

Srinivas Chilukuri, Nagarjuna Burela, Ramya Uppuluri, D Indumathi, Sapna Nangia, Pankaj Kumar Panda, Dayananda Sharma Shamurailatpam, Revathi Raj, Thirumalai Raja, Rakesh Jalali, Preliminary experience of treating children and young adults with image-guided proton beam therapy in india, JCO Glob Oncol, Volume 6: Page 1736-1745, November 2020

Srinivas Chilukuri, Sham Sundar, Rajesh Thiyagarajan, Jose Easow, Mayur Sawant, Ganapathy Krishnan, Pankaj Kumar Panda, Dayananda Sharma, Rakesh Jalali, Total marrow and lymphoid irradiation with helical tomotherapy: a practical implementation report, Radiat Oncol J, Volume 38: Issue 3: Page 207-216, September 2020

Srinivas Chilukuri, Nagarjuna Burela, Memantine for prevention of brain irradiation-induced cognitive toxicity: a tale of an underappreciated and underused intervention, JCO Glob Oncol, Volume 6: Page 1384-1388, September 2020

Chilukuri S, Jalali R, Reassuring quality of life in younger childhood (<4 years) brain tumor survivors treated with proton beam therapy, Neuro Oncol, Volume 22: Issue 9: Page 1243-1244, 29th September 2020

Chilukuri S, Panda PK, Jalali R. PITCHing (professional organisations, innovative trial designs and collaborative approach) for evidence generation for proton therapy, Radiat Oncol, Volume 15: Issue 1: Page 138, 1st June 2020

Chilukuri S, Sundar SC, Panda PK, The toxicity data from POP-RT: Proving the "Obvious" and challenging the "Norm", Radiother Oncol, Volume 147: Page 247, June 2020

## 18. Dr Srivathsan Ramani

Urology, Apollo Proton Cancer Centre, Chennai

### Publications

Ramani S, Ragavan N, Bafna S, Thangarasu M, Prakash S, Paul R, Chirravur P, Day-case robot-assisted laparoscopic surgery: Feasibility and safety, Turk J Urol, Volume 47: Issue 1: Page 30-34, 30th October 2020

## Ahmedabad

## 19. Dr Apurva S Shah

Medical Gastroenterology, Apollo Hospitals, Ahmedabad

### Chapters contributed to text books

Dr Apurva Shah, Indications of liver transplantation: Indian Scenario, Chapter 1, Essentials of liver transplant -An Indian perspective, Editor- Pathik

Parikh, Salubris Medical Publishers, Pages 1-9, December 2020

### **Presentations**

Poster presentation, Hepatic sarcoidosis with acute hepatitis E presenting as cholestatic jaundice in a young male, 61st Annual Conference of Indian Society of Gastroenterology, ISGCON, 20th December 2020

Poster presentation, Non alcoholic steatohepatitis (NASH) as an emerging cause of hepatocellular carcinoma in India, 61st Annual Conference of Indian Society of Gastroenterology, ISGCON, 20th December 2020

### **Publications**

Apurva Shah, Shravan Bohra, Swapan Desai, Argon plasma coagulation - an effective treatment for solitary rectal ulcer syndrome: A single-center experience from western India, Indian Journal of Gastroenterology, 10.1007/s12664-020-01089-w, 31 August 2020

Apurva Shah, Shravan Bohra, Celiac disease presenting as celiac artery stenosis and intra abdominal venous thrombosis - an unheard entity, International Journal of Celiac Disease, Volume 8: Issue 3: Page 83-84, 2020

Apurva Shah, Shravan Bohra, Celiac disease presenting as cardiomyopathy - a rare extra intestinal manifestation, International Journal of Celiac Disease, Volume 8, Issue 2: Page 56-57, 2020

## **20. Dr Jitendra Parmar**

Radiology, Apollo Hospitals, Ahmedabad

### **Publications**

Jitendra Parmar, Tapan Patel, Sumita Choudhary, Anagha Zope, Maulik Vora, Nishith Chaudhari, Bhoomi Angirish, Drashti Patel, Giant

fibroadenoma-radiologically simulating phyllodes tumor: a case report of unresolved diagnostic enigma, Investigations in Gynaecology Research & Womens Health, Volume 3: Issue 4: Page 282-285, 6th October 2020

Parmar Jitendra, Patel Tapan, Desai Chirag, Shah Sandip, Choksi Neel, Cecal volvulus caused by an omphalo-mesenteric band: a case report of a rare complication of meckel's diverticulum, Anaesthesia & Surgery Open Access Journal, Volume 2: Issue 3: Page 1-4, 3rd November 2020

Parmar J, Shah S, Patel T, Patwa M, Vyas H, Vora M, A case report of osteoblastoma of distal femur: a diagnostic challenge, Volume 5: Issue 2: Page 1-4, 2nd September 2020

Jitendra Parmar, Tapan Patel, Maulik Vora, Raj Gareja, Sumita Choudhary, Sandip Shah, A rare case report of incidental detection of penile ossification on pelvic radiograph, Archives of Clinical Case Reports, Volume 1: Issue 3: Page 84 - 85, 28th September 2020

Parmar Jitendra, Chaudhari Nishith, Patel Tapan, Vora Maulik, Gareja Raj, Shah Sandip, A case report of diagnostic conundrum of radiolucent foreign body ingestion in paediatric patient presented with aspiration pneumonia, International Journal of Case Reports and Clinical Images, Volume 2: Issue 3: Page 133, 25 July 2020

### **Lectures**

Lecture, Key Radiological Findings for Accurate Staging of Breast Cancer, 73rd Annual Conference of Indian Radiological and Imaging Association Asian Radiology Forum Gandhinagar, Gujarat, 26th January 2020

Lecture, Thyroid Nodule, Apollo CBCC Cancer Clinic, 7th November 2020

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

## 21. Dr Maulik Bakshi

Pediatrics, Apollo Hospitals, Ahmedabad

### Awards

Felicited for State for Community Service, Indian Redcross, Gujarat, Ahmedabad 16th January 2020

## 22. Dr Shravan Bohra

Gastroenterology and Hepatology, Apollo Hospitals, Ahmedabad

### Publications

Shravan Bohra, Apurva Shah, Celiac disease presenting as celiac artery stenosis and intra abdominal venous thrombosis - an unheard entity, International Journal of Celiac Disease, Volume 8: Issue 3: Page 83-84, 2020

Shravan Bohra, Apurva Shah, Celiac disease presenting as cardiomyopathy - a rare extra intestinal manifestation, International Journal of Celiac Disease, Volume 8: Issue 2: Page 56-57, 2020

## Bangalore

## 23. Dr Aruna R Patil

Radiology, Apollo Hospitals, Bangalore

### Publications

Aruna R Patil, Shrivalli Nandikoor, Pramod Jagannath, Amit Bansal, Not just fat: imaging in abdominal fat pathology, Journal of Gastrointestinal and Abdominal Radiology ISGAR, Page 1-9, 22nd October 2020

Aruna R. Patil, Bhushan Chaudhari, Satyajit Godhi, Swarna Shivakumar, Imaging in appendicular diverticulosis with appendicitis, Journal of Gastrointestinal and Abdominal, Volume 3: Issue S 01: Page S85-S88, 21st August 2020

Aruna R Patil, Kartik Revanappa, Sruthi Jacob, Multiple Myeloma - RSNA case collection, RSNA case collection, DOI: 10.1148/cases.20201608, 5th May 2020

Aruna R. Patil, Krishna Ramanathan, Sunder Narasimhan, Satish Nair, Imaging and intervention in internal carotid artery pseudoaneurysm secondary to retropharyngeal abscess, Indian Journal of Otolaryngology and Head & Neck Surgery, 17th November 2020

Aruna R Patil, Ashitha S, Shrivalli Nandikoor, Ewings sarcoma - RSNA case collection, RSNA case collection, DOI: 10.1148/cases.20202778, 16th November 2020

Patil A, Timble MK, Naik AL, Shivakumar S, Chaudhary B, Intraventricular ganglioglioma with unusual location and morphology-A case report, International Journal of Radiology and Radiation Oncology, volume 6: Issue 1: Page 001-003, 6th February 2020

Aruna R Patil, Ameena Ibrahim, Swetha Kumar, J G Aishwarya, Ashish S Shah, Satish Nair, Radiological and cadaveric study of anatomical safe zone for transoral base of tongue surgery, Journal of Robotic Surgery, doi: 10.1007/s11701-020-01164-6, 27th October 2020

### Lectures

Lecture, Pancreatic Incidentalomas: Current imaging guidelines, Indian Radiology and Imaging Association (IRIA), Indian College of Radiology and Imaging (ICRI), Delhi, 28th October 2020

Lecture, Acute Right Upper Quadrant Pain- an Imaging approach Indian Radiology and Imaging Association (IRIA), Indian College of Radiology and Imaging (ICRI), Delhi, 29th November 2020

### Editorial Boards Membership

Associate editor, Journal of Gastrointestinal and Abdominal Radiology

Editorial board member, Apollo Medicine

### **Professional Societies' Positions**

Executive Committee Member, Indian Society of Gastrointestinal and Abdominal Radiology

### **Examinership**

On site theory correction, DNB Radiology – Final, Delhi, February 2020

Practical examiner, DNB Radiology –Final, Bangalore, April 2020

## **24. Dr Satish Nair**

ENT, Head and Neck Surgery, Apollo Hospitals, Bangalore

### **Publications**

Nair S, Aishwarya J G , Shah AS, Kumar S, Kumar S, Brijith KVR, Srivastava N, Ibrahim A, Safe surgical zone during TORS radical tonsillectomy: An anatomical and radiological study, LERS, Volume 3: Issue 2: Page 34-38., 2020

Nair S, Aishwarya J G, Endoscopic Ear Surgery: Our Experience, Indian J Otolaryngol Head Neck Surg, DOI:10.1007/s12070-020-02042-1, 14th November 2020

Nair S, Ibrahim A, The importance of cribriform-lamella angle in endoscopic sinus surgery, Indian J Otolaryngol Head Neck Surg, Volume 73: Page 66–71, 26th September 2020

Nair S, Ramanathan K, Pavithra V, Kumar S, Adoor G, Karjigi U, Shivakumar S, Igg4 Related disease of skull base—a diagnostic challenge, Indian J Otolaryngol Head Neck Surg, DOI:10.1007/s12070-020-02135-x, 8th December 2020

Nair S, Ibrahim, A., Kumar, S., Patil, A.R., Aishwarya J.G., Shah A.S., Radiological and cadaveric study of

anatomical safe zone for transoral base of tongue surgery, J Robotic Surg, doi: 10.1007/s11701-020-01164-6, 27th October 2020

Nair S, Brijith, K.V.R., Aishwarya, J.G., Shah, A.S., Modified CT Scan scoring system for evaluating symptom severity of chronic rhinosinusitis, Indian J Otolaryngol Head Neck Surg, DOI:10.1007/s12070-020-02259-0, 10th November 2020

Nair S, Brijith KVR, Aishwarya J.G, Pavithra V, Transcanal endoscopic excision of tympanic paraganglioma: A three-case series, Laparoscopic, Endoscopic and Robotic Surgery, Volume 3: Issue 4: Page 126-130, December 2020

Nair S, Ramanathan K, Patil A R, Narasimhan S, Imaging and intervention in internal carotid artery pseudoaneurysm secondary to retropharyngeal abscess, Indian J Otolaryngol Head Neck Surg, <https://doi.org/10.1007/s12070-020-02283-0>, 17th November 2020

### **Professional Societies' Positions**

Life Member, Association of Otolaryngologists of India

Life Member, Foundation for Head and Neck Oncology, India

Life Member, The Cochlear Implant Group of India

Life Member, Indian Academy of Otolaryngology Head and Neck Surgery (IAOHNS)

Life Member, Laryngology and Voice Association of India

Life Member, Skull Base Surgery Society of India

Life Member, Association of Otolaryngologists of India (Delhi Branch)

Secretary, Association of Head Neck Oncologist of Karnataka



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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

Member, Governing Council AOI (Delhi Branch)

### Editorial Boards Membership

Editorial Board Member, Indian Journal of Otolaryngology and Head Neck Surgery

Editorial Board Member, Annals of IAOHNS

Editorial Board Member, World Journal of Otolaryngology

### Member of task forces of Government of India or State Governments

Member of Task Force on treatment in Chronic Rhinosinusitis, Central Council of Research in Homeopathy

### 25. Dr Savith Kumar

Neuroradiology and Interventional Neuroradiology, Apollo Hospitals, Bangalore

#### Publications

Savith Kumar, J G Aishwarya, Ashish S Shah, Satish Nair, Swetha Kumar, K V R Brijith, Namrata Srivastava, Ameena Ibrahim, Safe surgical zone during TORS radical tonsillectomy: An anatomical and radiological study, Laparoscopic, Endoscopic and Robotic Surgery, Volume 3: Issue 2: Pages 34-38, June 2020

#### Professional Societies' Positions

Member, Royal College of Radiology, since 2014

Member, Indian Radiological and Imaging Association, since 2011

Lifetime Member, Society of Therapeutic Neurointerventions, since 2019

#### Awards

Cum Laude Award, Poster presentation- Correlation of FLAIR Vascular hyperintensity - DWI

mismatch with infarct size on 24 hour follow up CT in acute ischemic stroke, Indian Society of Neuroradiology, 2020

### 26. Dr Shrivalli Nandikur

Radio Diagnosis, Apollo Hospitals, Bangalore

#### Publications

Shrivalli Nandikoor, Aruna R Patil, Pramod Jagannath, Amit Bansal, Not just fat: imaging in abdominal fat pathology, Journal of Gastrointestinal and Abdominal Radiology ISGAR, Page 1-9, 22nd October 2020

### 27. Dr Sunil Narayan Dutt

ENT, Head and Neck Surgery, Apollo Hospitals, Bangalore

#### Publications

Sunil Narayan Dutt, Aditya Moorthy, Shreya Krishna, P Subramanya Rao, H K Susheen Dutt, Prithvi Bachalli, Frontal mucopycoeles: the role of open surgery in the era of endoscopic sinus surgery: a report of two cases, J Maxillofac Oral Surg, Volume 19: Issue 2: Page 235-239, June 2020

Dutt SN, Vadlamani S, Kumar A, Gaur SK, Kameswaran M, Bilateral bone anchored hearing aids: a case report on right side percutaneous and left side transcutaneous implant, Indian J Otolaryngol Head Neck Surg, Volume 72: Issue 1: Page 148-151, March 2020

Dutt SN, Vadlamani S, Moorthy A, Bachalli PS, Gaur SK, Intraductal foreign body (fish bone fragment) as a cause of obstructive sialadenitis: a case report, Indian J Otolaryngol Head Neck Surg, DOI:10.1007/s12070-020-02012-7, July 2020

Sunil Narayan Dutt, Aanchal Aggarwal Mittal, Apurva Kumar, Abhilash Bansal, Sumit Kumar Gaur, Cochlear implant in a child with a large arachnoid

cyst and cysto- peritoneal shunt, Indian Journal of Otolaryngology and Head and Neck Surgery, <https://doi.org/10.1007/s12070-020-02145-9>, 17th September 2020

### Orations

Lecture, Tests and Maneuvers in BPPV, Dr Joe V De Sa Oration, Neurologic and Equilibriometric Society of India (NES) Conference, Patna, Bihar, February 2020

### Lectures

Faculty, Annual Conference of the Association of Otolaryngologists of India (AOICON), Nagpur, 2020

### Professional Societies' Positions

Member, International, ENT, UK, since 2020

Member, Advisory Board, ADIP CI Programme, Ministry of Social Justice, GOI, since 2020

## 28. Dr Venkatesh H K

Neuroanesthesia, Apollo Hospitals, Bangalore

### Publications

Venkatesh H Keshavan, Ponniah Vanamoorthy, Gyaninder P Singh, Prasanna U Bidkar, Ranadhir Mitra, Kamath Sriganesh, Siddharth Chavali, Radhakrishnan Muthuchellapan, Saurabh Anand, Keshav Goyal, Rahul Yadav, Girija P Rath, Shashi Srivastava, The Neurocritical Care Society of India (NCSI) and the Indian Society of Neuroanaesthesiology and Critical Care (ISNACC) Joint Position Statement and Advisory on the Practice of Neurocritical Care during the COVID-19 Pandemic, NCSI and ISNACC Joint Advisory on COVID-19 Pandemic Vanamoorthy et al, DOI <https://doi.org/10.1055/s-0040-1714648>, 13th July 2020

Venkatesh H Keshavan, Pradeep A Dongare, S Bala Bhaskar, SS Harsoor, Rakesh Garg, Sudheesh

Kannan, Umesh Goneppanavar, Zulfiqar Ali, Ramachandran Gopinath, Jayashree Sood, Kalaivani Mani, Pradeep Bhatia, Priyanka Rohatgi, Rekha Das, Santu Ghosh, Subramanyam S Mahankali, Sukhminder Jit Singh Bajwa, Sunanda Gupta, Sunil T Pandya, Muralidhar Joshi, Naveen Malhotra, Perioperative fasting and feeding in adults, obstetric, paediatric and bariatric population: Practice Guidelines from the Indian Society of Anaesthesiologists, Indian Journal of Anaesthesia, Volume 64: Issue 7: Page 556-584, 2020

## 29. Dr Venkatesh T K

Cardiology, Apollo Hospitals, Bangalore

### Lectures

Chairperson, Lipid Academy Interface, Lipid Association of India, Virtual, 25th June 2020

### Editorial Boards Membership

Co-Editor, Oman Medical Journal, since 1999

### Professional Societies' Positions

President, Cardiological Society of India Karnataka Chapter, since 2018

Member, European Association of Percutaneous Coronary Intervention (EAPCI), since 2006

Member, European Heart Failure Association (HFA), since 2006

Member, Acute Cardiovascular Care Association (ACCA), since 2006

Member, International Associate American College Cardiology (ACC), since 2016

### Examinership

Examiner, DNB Practical Cardiology Exam, August 2020

### 30. Dr Vinay D

Infectious Diseases, Apollo Hospitals, Bangalore

#### Lectures

Faculty, Role of antimicrobial stewardship in critical care practice, CRITICARE, Hyderabad, 2020

Faculty, Flu vaccine in adults in the covid era, Adult Vaccination Symposium, GAPIO, 2020

### 31. Dr Vishwanath S

Medical Oncology, Apollo Hospitals, Bangalore

#### Publications

Vishwanath Sathyanarayanan, Christopher R Flowers, Swaminathan P Iyer, Comparison of access to novel drugs for lymphoma and chronic lymphocytic leukemia between India and the United States, JCO Glob Oncol, Volume 6: Page 1124-1133, July 2020

## Bhubaneshwar

### 32. Dr Ajit Surin

Rheumatology, Apollo Hospitals, Bhubaneswar

#### Publications

Ajit Surin, Shivraj Padiyar, Suvrat Arya, Vishad Viswanath, Debashish Danda, Comparison of safety, efficacy and cost between oral pulse cyclophosphamide versus intravenous cyclophosphamide pulse therapy in severe systemic lupus erythematosus, International Journal of Rheumatic Diseases, Volume 23: Issue 6: Page 800-804, June 2020

### 33. Dr Amitav Mohanty

Internal Medicine, Apollo Hospitals, Bhubaneswar

#### Chapters contributed to text books

Dr Amitav Mohanty, Mycosis: Antifungal Updates, Chapter 212, API Textbook of Medicine, Editor- S Arulraj, Medicine Update 2020 Edition, Jaypee

Brothers Medical Publisher, 2020

#### Editorial Boards Membership

Joint Editor, Odisha Physician Journal, since 2019

#### Member of task forces of Government of India or State Governments

Member, Governing Body Member of API-Odisha

#### Awards

Fellowship, Indian College of Physicians (FICP), National Conference of Physicians, APICON, Agra, 6th-9th January 2020

### 34. Dr Debabrata Padhy

Orthopedics, Apollo Hospitals, Bhubaneswar

#### Lectures

Convenor on Cemented THR, Uncemented THR and TKR, OAA Webinar, August 2020

Moderator on cemented THR, uncemented THR and TKR, OAA Webinar, August 2020

Sixth Flexion Deformity, IAA Webinar, 19th June, 2020

#### Professional Societies' Positions

Executive body member, Indian Arthroplasty Association, since 2019

Founder Secretary, Odisha Arthroplasty Association, since 2017

### 35. Dr Dipika Mohanty

Haematology, Apollo Hospitals, Bhubaneswar

#### Editorial Boards Membership

Editor, Indian Journal of Medical Research, since 2015

Editorial Board Member, Journal of Blood

Transfusion and Diseases, USA, since 2016

Editorial Board Member, Genetics Research International, since 2017

Reviewer, Current Pharmaceutical Bio-technology Journal, since 2015

Member, Indian Journal of Surgery, since 2019

### **Member of task forces of Government of India or State Governments**

Member, Peer Review Committee of ICMR, Hematology, Physiology, Genetics and Pharmacology

Advisor, Health Surveillance of Hemoglobinopathies

### **36. Dr Laxmikanta Mishra**

Plastic Surgery, Apollo Hospitals, Bhubaneswar

#### **Lectures**

Breast Reduction Surgery, Annual Chapter of Plastic Surgery conference of Odisha, Barakul, Chilika, 1st February 2020

### **37. Dr Madhusudan Modi**

GI Surgery, Apollo Hospitals, Bhubaneswar

#### **Publications**

Dr Madhu Sudan Modi, Dr Bikas Agarwal, Dr Md Ibrarullah, Dr Hamza Wani, Dr Uppalapati Srinivasulu, Perforated peritonitis due to spontaneous rupture of large GIST arising from small bowel a rare case report, International Journal of Current Advanced Research, Volume 8: Issue 12: Page 20796-20798, January 2020

### **38. Dr Manoj Chhotray**

General Medicine, Apollo Hospitals, Bhubaneswar

#### **Professional Societies' Positions**

President, Indian Medical Association, since 2016

Vice President, Indian Rheumatological Association,

since 2017

### **39. Dr Md Ibrarullah**

GI Surgery, Apollo Hospitals, Bhubaneswar

#### **Book Published**

Editor – Dr Mohammad Ibrarullah, Atlas of Diagnostic Endoscopy, 3rd Edition, CRC Press, 2020

#### **Publications**

Ibrarullah M, Bruno WH, Meher S, Spontaneous Rupture of Liver Tumors, Indian Journal of Surgery, Volume 82: Page 439 – 441, 2020

#### **Lectures**

Organizer, 17th Annual Conference, Indian Chapter of International Hepato-pancreato-biliary association, Bhubaneswar, 24th – 26th January 2020

Lecture, Recurrent pyogenic cholangitis, Midterm Conference of Indian chapter of IHPBA, Aligarh, date 2020

Moderator, Management of acute pancreatitis, Annual Conference of the Indian Chapter of International HPB association, Bhubaneswar, 24th – 26th January 2020

Moderator, Anastomotic leak, Annual Conference of the Odisha state Chapter of Association of Surgeons of India, Bhubaneswar, November 2020

#### **Professional Societies' Positions**

Life member, Association of Surgeons of India, since 2004

Life member, Indian Association of Surgical Gastroenterology, since 1995

Life member, Indian Society of Gastroenterology, since 1995

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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

Life member, Indian Medical Association, since 2004

Life member, Indian Chapter of International Pancreas Club, since 2006

Life member, Indian Chapter of IHPBA, since 2007

#### 40. Dr Nachiketa Mohapatra

Histopathology, Apollo Hospitals, Bhubaneswar

##### Publications

Nachiketa Mohapatra, Dinesh Kumar, Md. Khurshidul Hassan, Niharika Pattanaik, Manjusha Dixit, IQGAP2 acts as a tumor suppressor in breast cancer and its reduced expression promotes cancer growth and metastasis by MEK/ERK signalling pathways, Bio Rxiv, <https://doi.org/10.1101/651034>, 2020

Nachiketa Mohapatra, Md Khurshidul Hassan, Dinesh Kumar, Saket Awadhesbhai Patel, Niharika Pattanaik, Manjusha Dixit, Expression pattern of EE1A2 in brain tumors: Histological analysis and functional role as a promoter of EMT, Life Sciences, Volume 246: Page 117399, 1st April 2020

##### Professional Societies' Positions

Secretary, Indian Society of Pathologists and Microbiologist (IAPM), Odisha, since 2020

#### 41. Dr Nisith Mohanty

Nephrology, Apollo Hospitals, Bhubaneswar

##### Publications

Nisith Kumar Mohanty, Krushna Chandra Sahoo, Sanghamitra Pati, Asish K Sahu, Reena Mohanty, Prevalence of Chronic Kidney Disease in Cuttack District of Odisha, India, International Journal of Environmental research and Public Health, Volume 17: Issue 2: Page 456, January 2020

##### Professional Societies' Positions

Head, Nephrology, IMS and SUM Hospitals,

Bhubaneswar, since January 2020

#### 42. Dr Prafulla Kumar Sahoo

Neurosurgery, Apollo Hospitals, Bhubaneswar

##### Lectures

Lecture, Evidence based in Management of medulloblastoma, Neurosurgeon Society of India, Kolkata, 6th–8th March 2020

##### Professional Societies' Positions

Secretary, Neurological Society of Odisha (NSO), since 2019

#### 43. Dr Ranjan Mohanty

Surgical Oncology, Apollo Hospitals, Bhubaneswar

##### Professional Societies' Positions

Lifetime Member, Indian Association of Surgical Oncologists (IASO), since 2010

Lifetime Member, Association of Surgeons of India (ASI), since 2011

Lifetime Member, Indian Medical Association of India, since 2010

Lifetime Member, Association of Surgeons Gujarat, since 2012

Lifetime Member, Association of Railway Surgeons of India (ARSI), since 2010

#### 44. Dr Samarjit Bisoyi

Cardiac Anaesthesia, Apollo Hospitals, Bhubaneswar

##### Publications

Samarjit Bisoyi, Usha Jagannathan, Anjan K Dash, Raghunath Mohapatra, Debashish Nayak, Satyajit Sahu, Pattnaik Satyanarayan, Decision making, management, and midterm outcomes of postinfarction ventricular septal rupture: our

experience with 21 patients, Annals of Cardiac Anaesthesia, Volume 23: Issue 4: Page 471-476, October-December 2020

#### 45. Dr Sandeep Mohanty

Orthopedics, Apollo Hospitals, Bhubaneswar

##### Lectures

Lecture, Approach to Congenital Heart Disease, Cardiology Update, Chennai, 2020

#### 46. Dr Sanjeev Pattnaik

Orthopedics, Apollo Hospitals, Bhubaneswar

##### Publications

Sanjeev Pattnaik, Ashok Kumar Gachhayat, Akshaya Kumar Sahoo, R R Karthik, Giant cell tumor of third metacarpal: a rare case report and review of literature, Journal of Orthopedics Case Report, Volume 9: Issue 6: Page 11-14, January 2020

#### 47. Dr Santosh Panigrahy

Plastic Surgery, Apollo Hospitals, Bhubaneswar

##### Lectures

Lecture, National conference on peripheral nerve surgeries, Coimbatore (ISPNS), 27th February – 1st March 2020

#### 48. Dr Saroj Pattanaik

Critical Care, Apollo Hospitals, Bhubaneswar

##### Professional Societies' Positions

Executive Member, Indian Society of Critical Care Medicine, since 2019

Lifetime Member, Indian Society of Anaesthesiologists, since 2016

Lifetime Member, Indian Medical Association, since 2013

Lifetime Member, Global Association of Physicians of Indian Origin, since 2014

#### 49. Dr Saroj Sahu

Nuclear Medicine, Apollo Hospitals, Bhubaneswar

##### Professional Societies' Positions

Lifetime Member, IGNM, since 2019

Lifetime Member, Society of Nuclear Medicine, since 2018

#### 50. Dr Saumitra Satpathy

Anaesthesiology, Apollo Hospitals, Bhubaneswar

##### Lectures

Lecture, Fluid Therapy in Acute Emergency Laparotomy cases, Soft -Society of Fluid Therapy, Virtual Zoom, November 2020

#### 51. Dr Sharmili Sinha

Critical Care, Apollo Hospitals, Bhubaneswar

##### Chapter contributed to texts book

Dr Sharmili Sinha, Role of NIV in Cardiogenic Pulmonary Edema, ISCCM Manual of Non-Invasive Ventilation, Chapter 12, Editors- Subhal Balchandra Dixit, Dhruva Chaudhry, Yatin Mehta, Kapil Zirpe, 1st edition, Jaypee Brothers Medical Publisher, Page 105-112, 2020

##### Lectures

Lecture, Critical Care Training Programme, Department of Health and Family Welfare, Government of Odisha- COVID-19, SCD Medical College, Cuttack, April 2020

Lecture, On line Critical Care Training Programme, Department of Health and Family Welfare, Government of Odisha – COVID-19, Bhubansher September 2020



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Lecture, Recent advances in Ventilation in ARDS, IMA Meet, Anugul, Odisha, April 2020

Lecture, Cardiac Dysfunction during Weaning in ICU, Criticare, Hyderabad, 2020

Lecture, Renal Replacement Therapy Workshop, Criticare, Hyderabad, 2020

Lecture, How do I measure GFR in ICU?, EZZCCON, Kolkata, November 2020

Lecture, Renal Replacement therapy in ICU, National Critical Care Conference, Hyderabad, 25th – 29th February 2020

Organizing chairperson, 2nd Odisha Annual Critical Care Conference (Under the banner of ISCCM), Bhubaneswar, 2020

#### Professional Societies' Positions

Chairperson, Indian society of Critical Care, Bhubaneswar, since 2019

Executive Council Member, National Indian Society of Critical Care Medicine, (East Zone), Mumbai, since 2020

Co-ordinator, ISCCM Committee, since 2020

Lifetime Member, Indian Society of Critical Care Medicine, since 2017

Lifetime Member, Society of Critical Care Medicine, since 2016

Lifetime Member, European Society of Intensive Care Medicine, since 2016

Lifetime Member, Neuro Critical Care Society, USA, since 2017

Lifetime Member, Indian Society of Anaesthesiologists, since 2018

#### Examinership

Internal Examiner, IDCCN Exam, Indian College of

Critical Care Medicine, March and July 2020

Internal Examiner, CTCCM Exam, Indian College of Critical Care Medicine, September 2020

Internal Examiner, FNB Critical Care, Apollo hospitals, date 2020

#### Awards

Felicitated, for first Deceased Organ Donation programme in the state of Odisha by Chief Minister, Odisha, February 2020

### 52. Dr Sreeharsha Satpathy

Cardiac Anaesthesia, Apollo Hospitals, Bhubaneswar

#### Lectures

Anesthesia for One Lung Ventilation, Managing Thoracic Disease Master Classes, Association of Cardiothoracic Anesthesiologists National Conference, IACTACON, Goa 6th – 8th February 2020

#### Professional Societies' Positions

Lifetime member, Indian Association of Cardiothoracic Anaesthesiologist (IACTA), since 2014

### 53. Dr Sushant Kumar Sethi

Gastroenterology, Apollo Hospitals, Bhubaneswar

#### Lectures

Lecture, Current Concept Functional Dyspepsia, ISGCON, Webinar, 2020

Virtual talk, Functional dyspepsia, 61st Annual Conference of Gastroenterology, ISGCON, Pune, 19th December 2020

## Editorial Boards Membership

Editor, American College of Gastroenterology, since 2020

## Awards

Gastroenterologist of the year, TIME Cyber Media, 9th December 2020

Best Practice Management in East, Gastro and Liver Clinic, Times of India, 28th October 2020

## Bilaspur

### 54. Dr Aman Sharma

Emergency Medicine, Apollo Hospitals, Bilaspur

#### Chapters contributed to text books

Dr Aman Sharma, Oral Problems (Oral Candidiasis, Oral Herpes Simplex), Signs and symptoms in clinical practice, Chapter 70, Editor- Devendra Richhariya, 1st edition, Jaypee Publications, Page 520-529, 2020

#### Publications

Aman Sharma, Atanu B Bhattacharya, Gauri Shankar Asati, Sudipta Roy, Acute compartment syndrome as a complication of mosquito repellent toxicity-a case report, European Journal of Medical Case Reports, Volume 4: Issue 6: Page 210-212, 2020

#### Orations

Lecture, I have a Dream-Welcome to Nursicon, Nursicon, 8th June 2020

#### Lectures

Lecture, Pre-eclampsia and Eclampsia, SEMICON, 26th July 2020

#### Professional Societies' Positions

General Secretary, Emergency Medicine India

Society (SEMI), Chattisgarh Chapter, since 2018

### 55. Dr Devinder Singh

Gastroenterology, Apollo Hospitals, Bilaspur

#### Publications

Devinder Singh, Sitendu Kumar Patel, Roopdas Miree, Sujit Pahari, Aman Sharma, A rare phenomenon: blindness in acute pancreatitis, European Journal of Medical Case Reports, Volume 4: Issue 2: Page 01-03, 2020

### 56. Dr Prabuddh Sen

Oral Maxillofacial Surgery, Apollo Hospitals, Bilaspur

#### Publications

Dr Prabuddh Sen, Pediatric Maxillofacial trauma-Case Report, Journal Of Indian Dental Association, Volume 1: Issue 2: Page 27-29, 2020

Dr Prabuddh Sen, Keratocystic Odontogenic tumour-Case Report, Journal Of Indian Dental Association, Volume 1: Issue 3: Page 25-31, 2020

### 57. Dr Vijay Kumar Shrivastava

Medicine, Apollo Hospitals, Bilaspur

#### Publications

Vijay Kumar Shrivastava, Manoj Kumar Rai, Sandhya Chandel, Complicated enteric fever: a case series, International Journal of Advances in Medicine, Volume 7: Issue 7: page 1179-1183, July 2020

### 58. Dr Vinit Kumar Srivastava

Neuro-Anaesthesia, Apollo Hospitals, Bilaspur

#### Publications

Vinit Kumar Srivastava, Sanjay Agrawal, Sweta Anil Deshmukh, Febin Noushad, Saima Khan, Raj Kumar, Efficacy of tropium for prevention of

catheter-related bladder discomfort: a prospective, randomized, placebo controlled, double-blind study, Korean J Anesthesiol, Volume 73: Issue 2: Page 145-150, April 2020

Vinit Kumar Srivastava, Saima Khan, Sanjay Agrawal, Sweta Anil Deshmukh, Pooja Shree, Partha Pratim Misra, Comparison of palonosetron-dexamethasone and ondansetron-dexamethasone for prevention of postoperative nausea and vomiting in middle ear surgery: a randomized clinical trial, Brazilian Journal of Anesthesiology, Volume 70: Issue 5: Page 477 -483, September - October 2020

Vijay Kumar shrivas, Manoj Kumar Rai, Sandhya Chandel, Complicated enteric fever: a case series, International journal of advances in medicine, Volume 7: Issue 7: Page 1179-1183, July 2020

#### Editorial Boards Membership

Reviewer, PLOS ONE, since 2018

Reviewer, Yonsi Medical Journal, since 2015

Reviewer, TRIALS Journal, since 2015

Reviewer, Acta Anaesthesiologica Scandinavica, since 2019

Reviewer, Acta Anaesthesiologica Belgica, since 2017

Reviewer, International International Journal of Surgery Research and Practice, since 2016

Reviewer, International Journal of Anesthetics and Anesthesiology, since 2016

Reviewer, Journal of Clinical and Diagnostic Research, since 2012

Reviewer, Bioscience Reports, since 2018

Reviewer, BioMed Research International, since 2018

#### Examinership

Examiner, DNB, June 2020

Examiner, Anesthesiology, National Board of Examination, June 2020

## Chennai

### 59. Dr A R Gayathri

Respiratory Medicine, Apollo Main Hospitals, Chennai

#### Editorial Boards Membership

Section Editor, Interventional Pulmonology and Ultrasound Chest, Journal Association of Pulmonologist Tamil Nadu (JAPT), since July 2020

### 60. Dr Arshad Akeel

Internal Medicine, Apollo Main Hospitals, Chennai

#### Publications

Dr C Arshad Akeel, Dr K J Ragunath, Dr Kishore Kumar Reddy, Carcinoma of Caecum: a rare cause of pyrexia of unknown origin, Indian Journal of Applied Research, Volume 10: Issue 2: Page 54- 55, February 2020

Dr C Arshad Akeel, The Varied clinical presentation of Melioidosis- A case series, Indian Journal of Applied Research, Volume 10: Issue 6: Page 56-57, June 2020

Dr C Arshad Akeel, Dr Phani Kumar M, Dr Neetu Mariam Alex, COVID-19 presenting with failed heart, congested liver and patchy lung in a young patient: A case report, Indian Journal of Applied Research, Volume 10: Issue 7: Page 8 -9, July 2020

Dr Arshad Akeel, Dr S Kishore Kumar Reddy, Dr M Chandranathan, An interesting case of subdural av fistula, Indian Journal of Applied Research, Volume 10: Issue 8: Page 64-65, August 2020

Dr C Arshad Akeel, Dr Kishore Kumar Reddy, Eosinopenia as a diagnostic and prognostic marker in COVID-19 infection, Indian Journal of Applied Research, Volume 10: Issue 9: Page 3, September 2020

Dr C Arshad Akeel, Dr Rajendran Magesh, Dr Kishore Kumar Reddy, Asymptomatic pulmonary thromboembolism in a patient with post-covid infection, Indian Journal of Applied Research, Volume 10: Issue 11: Page 65-66, November 2020

Dr C Arshad Akeel, Dr Kishore Kumar Reddy, Dr Balasubramanian Ramakrishnan, Eosinopenia as a diagnostic and prognostic marker in COVID-19 infection, E Clinical Medicine, Volume 10: Issue 9, September 2020

#### **Professional Societies' Positions**

Member, American College of Cardiology, since July 2015

Member, American Diabetic Association (ADA), since 2019

### **61. Dr Bharath Kumar TV**

Critical Care, Apollo Main Hospitals, Chennai

#### **Chapters contributed to text books**

Dr Bharath Kumar Tirupakuzhi Vijayaraghavan, Cost-Effectiveness of Post intensive Care Clinics, Post-Intensive Care Syndrome- Lessons from the ICU, Chapter 26, Editor- Preiser JC, Herridge M, Azoulay E, 1st edition, Springer International Publishing, Page 368-376, 2020

#### **Publications**

Bharath Kumar Tirupakuzhi Vijayaraghavan, Vijayaprasad Gopichandran, Coverage of antimicrobial resistance in the revised Indian medical curriculum: Lip service only?, Education for Health, Volume 33: Issue 2: Page 70-73, May-August 2020

Bharath Kumar Tirupakuzhi Vijayaraghavan, Sheila Nainan Myatra, Meghena Mathew, Nirmalyo Lodh, Jigeeshu Vasishtha Divatia, Naomi Hammond, Vivekanand Jha and Balasubramanian Venkatesh, Challenges in the delivery of critical care in India during the COVID-19 pandemic, Journal of the Intensive Care Society, Volume 24: Issue 593: Page 1-7, 30th September 2020

Bharath Kumar Tirupakuzhi Vijayaraghavan, Anders Perner, Balasubramanian Venkatesh, How likely are COVID-19 interventions to benefit the sickest patients?, Intensive Care Med, Volume 46, Page 1441-1444, 9th June 2020

Bharath Kumar Tirupakuzhi Vijayaraghavan, Marie Helene Masse, Julie Menard, Sheila Sprague, Marie-Claude Battista, Deborah J Cook, Gordon H Guyatt, Daren K Heyland, Salmaan Kanji, Ruxandra Pinto, Andrew G Day, Dian Cohen, Djillali Annane, Shay McGuinness, Rachael Parke, Anitra Carr, Yaseen Arabi, Frederick D Aragon, Elaine Carboneau, David Maslove, Miranda Hunt, Bram Rochweg, Tina Millen, Michael Chasse, Martine Lebrasseur, Patrick Archambault, Estel Deblois, Christine Drouin, Francois Lellouche, Patricia Lizotte, Irene Watpool, Rebecca Porteous, France Clarke, Nicole Marinoff, Emilie Belley-Cote, Brigitte Bolduc, Scott Walker, John Iazzetta, Neill K J Adhikari, François Lamontagne, Lessening Organ dysfunction with Vitamin C (LOVIT): protocol for a randomized controlled trial, Masse et al Trials, Volume 21: Issue 42: Page 1-12, 2020

Bharath Kumar Tirupakuzhi Vijayaraghavan, Vivekanand Jha, Dorrielyn Rajbhandari, Sheila Nainan Myatra, Oommen John, Arpita Ghosh, Abhinav Bassi, Sumaiya Arfin, Mallikarjuna Kunigari, Rohina Joshi, Lachlan Donaldson, Naomi Hammond, Balasubramanian Venkatesh, Hydroxychloroquine plus personal protective equipment versus standard personal protective equipment alone for the prevention of COVID-19 infections among frontline healthcare workers: the Hydroxychloroquine Prophylaxis Evaluation (HOPE)

trial: A structured summary of a study protocol for a randomized controlled trial, Tirupakuzhi Vijayaraghavan et al Trials, Volume 21: Issue 754: Page 1-3, 2020

Vijayaraghavan BKT, Ramakrishnan N, Venkataraman R, Breaking Barriers to Reach Farther: A Call for Urgent Action on Tele-ICU Services, Indian J Crit Care Med, Volume 24: Issue 6: Page 393-397, June 2020

Bharath Kumar Tirupakuzhi Vijayaraghavan, ISARIC Clinical Characterization Group (collaborative publication), Global outbreak research: harmony not hegemony, Lancet Infect Dis, Volume 20: Issue 7: Page 770-72, 2020

Bharath Kumar Tirupakuzhi Vijayaraghavan, CRIT CARE ASIA, Establishing a critical care network in Asia to improve care for critically ill patients in low- and middle-income countries, Critical Care, Volume 24: Issue 608: Page 1-4, 2020

Bharath Kumar, John C Marshall, Srinivas Murthy, Janet Diaz, N K Adhikari, Derek C Angus, Yaseen M Arabi, Kenneth Baillie, Michael Bauer, Scott Berry, Bronagh Blackwood, Marc Bonten, Fernando Bozza, Frank Brunkhorst, Allen Cheng, Mike Clarke, Vu Quoc Dat, Menno de Jong, Justin Denholm, Lennie Derde, Jake Dunning, Xiaobin Feng, Tom Fletcher, Nadine Foster, Rob Fowler, Nina Gobat, Charles Gomersall, Anthony Gordon, Thomas Glueck, Michael Harhay, Carol Hodgson, Peter Horby, YaeJean Kim, Richard Kojan, John Laffey, Denis Malvey, Ignacio Martin-Loeches, Colin McArthur, Danny McAuley, Stephen McBride, Shay McGuinness, Laura Merson, Susan Morpeth, Dale Needham, Mihai Netea, Myoung-Don Oh, Sabai Phyu, Simone Piva, Ruijin Qiu, Halima Salisu-Kabara, Lei Shi, Naoki Shimizu, Jorge Sinclair, Steven Tong, Alexis Turgeon, Tim Uyeki, Frank van de Veerdonk, Steve Webb, Paula Williamson, Timo Wolf, Junhua Zhang, A minimal common outcome measure set for COVID-19 clinical research, Lancet Infect Dis, Volume 20: Issue 8: Page e192-e197,

12th June 2020

## 62. Dr Chidambaranathan

Radiology and Imaging Services, Apollo Main Hospitals, Chennai

### Lectures

Speaker, 22nd Annual Scientific Meeting, Asian Musculoskeletal Society, 8th- 10th September 2020

Faculty, CNS, Head and Neck - Case Discussion, CME program 'Star Primer' Stanley Radiology Continuing Medical Education, Government Stanley Medical College, Chennai, 17th - 19th January 2020

Faculty, CME programme, 73rd Annual Conference of Indian Radiological and Imaging Association (IRIA) Asian Radiology Forum, Indian Radiological and Imaging Associations, Gujarat Chapter, Gandhinagar, 23rd - 26th January 2020

Faculty, Virtual Scientific Meeting, 22nd Annual conference of Indian Society of Neuroradiology, ISNR, 16th -18th October 2020

Talk, Imaging of growth plate disturbances, Webinar, Musculoskeletal Society of India, 17th September 2020

Faculty, 2nd Annual National Conference, Society of Chest Imaging and Intervention, SCII-CON, 26th - 27th September 2020

### Presentations

Poster Presentation, 22nd Annual Scientific Meeting, Asian Musculoskeletal Society, 8th- 10th September 2020

Oral paper presentations, 2nd Annual National Conference, Society of Chest Imaging and Intervention, SCII-CON, 26th - 27th September 2020

## Awards

Recognition Award, for Teaching and contribution to Advancement of Radiology, Yorkshire- Aintree FRCR Team, Chennai, 22nd February 2020

Great teacher and Mentor Awards, Teacher Day, Indian Radiological and Imaging Association, 5th September 2020

## 63. Dr Dhavapalani

Critical Care, Apollo Main Hospitals, Chennai

## Awards

ICONS of Healthcare Award, Times Healthcare Achievers, February 2020

## 64. Dr Elankumaran

Gastroenterology, Apollo Main Hospitals, Chennai

## Awards

ICONS of Healthcare Award, Times Healthcare Achievers, February 2020

## 65. Dr G Sengottuvelu

Interventional Cardiology, Apollo Main Hospitals, Chennai

## Publications

Gunasekaran Sengottuvelu, Ravinder Singh Rao, Samin K Sharma, Praveen Chandra, Prashant Bharadwaj, Pravin Kumar Goel, Evaluation of balloon expandable transcatheter heart valve in the treatment of severe symptomatic native aortic stenosis: the first-in-human MyVal-1 study, The Journal of the Heart Team, Volume 4: Issue Sup 1: Page 188-189, 13th February 2020

Sengottuvelu Gunasekaranb, Muthukumar Chinnasamy Sivaprakasama, Annie Arvinda, Anuradha Sridhara, First transcatheter pulmonary valve implantation - An Indian made valve, IHJ

Cardiovascular Case Reports (CVCR), Volume 4: Issue 1: Pages 13-16, January–April 2020

Sengottuvelu, Vijay Kumar, Ashok Seth, The MyVal transcatheter heart valve system for the treatment of severe aortic stenosis – current evidence and future directions, Heart International, volume 14: Issue 2: Page 86-91, 2020

Sengottuvelu Gunasekaran, Rony Mathew, Jabir Abdullakutty, Tejas Patel, R Sivakumar, Balbir Singh, Nagendra Chouhan, Fazila-Tun Nesa Malik, M S Hiremath, Samuel Mathew, Viveka Kumar, Vijayakumar Subban, TCT CONNECT-410 Impact of Real-Time Optical Coherence Tomography-Angio Co-Registration (OCT-ACR) on Physician Decision Making During Percutaneous Coronary Intervention: A Multicenter, Prospective Study (iOPTICO study), J Am Coll Cardiol, Volume 76: Issue 17: Page B176, 27th October 2020

S Gunasekaran, B C A Dasari, A Oomman, P Govindarajulu, L Narra, R Mao, S Satish, R Showkathali, S Immaneni, K P Pramodkumar, Y V C Reddy, R Nayak, Addition of biomarker high sensitivity troponin I (hSTROPI) to QRISK3 score in predicting significant coronary artery disease (CAD), European Heart Journal, Volume 41: Issue Sup 2: Page ehaa 946.2899, November 2020

G Sengottuvelu, Ajit Mulasari, Ajay Mahajan, B B Chanana, Dhiman Kahali, Dinesha Basavanna, Divya Prakash, Manoj Chopda, Milind Gadkari, Mukul Misra, Rajendra Kumar Premchand, Rajpal K Abhaichand, Rakesh Kumar Aggarwal, Santanu Guha, Subhash Chandra, Sudeep Kumar, Tejas Patel, Uday Kumar Hosad, Upendra Kaul, R V Vijay Bhaskar, Efficacy and safety of ivabradine once-daily prolonged-release versus twice-daily immediate-release formulation in patients with stable chronic heart failure with systolic dysfunction: a randomized, double-blind, phase 3 non-inferiority (PROFICIENT) study, National Library of Medicine, Volume 9: Issue 2: Page 505-



521, December 2020

Gunasekaran Sengottovelu, Samin K Sharma, Ravinder Singh Rao, Praveen Chandra, Pravin Kumar Goel, Prashant Bharadwaj, George Joseph, John Jose, Ajaykumar U Mahajan, Sanjay Mehrotra, V K Ajit Kumar, Cholenahally N Manjunath, Rajpal K Abhaichand, Rishi Sethi, Ashok Seth, First-in-human evaluation of a novel balloon-expandable transcatheter heart valve in patients with severe symptomatic native aortic stenosis: the MyVal-1 study, EuroIntervention, Volume 16: Issue 5: Page 421-429, 28th August 2020

## 66. Dr Immaneni Sathyamurthy

Cardiology, Apollo Main Hospitals, Chennai

### Publications

Immaneni Sathyamurthy, Jamshed Dalal, K K Sethi, Santanu Guha, Saumitra Ray, P K Deb, Ashok Kirpalani, Srinivasa Rao Maddury, Siddharth Shah, Mrinal Kanti Das, HB Chandalia, JPS Sawhney, Joy Thomas, Viveka Kumar, Nishith Chandra, Aziz Khan, A Sreenivas Kumar, G Suryaprakash, Screening for Hypertension in asymptomatic individuals in india: an expert consensus statement, J Assoc Physicians India, Volume 68: Issue 4: Page 73-79, April 2020

Sathyamurthy Immaneni, Rajeshwari Nayak, Yeramma Vijayachandra Reddy, Girinath Maligail Ramakrishnan, Rochita Ramanan, Jenifer Johnson, Very rare giant coronary aneurysm, Asia intervention, Volume 6, July 2020

I Sathyamoorthy, Jayagopal P B, B C Srinivas, T R Raghu, N N Khanna, K H Srinivas, S C Manchanda, Shantanu Guha, Saumitra Ray, Joy M Thomas, Sameer Srivastava, Devanu Ghosh Roy, Sadanand R Shetty, K S Ravindranath, Girish B Navasundi, R R Mantri, Peeyush Jain, Amal Kumar Khan, Twenty-Four Hour Blood Pressure Management in India: A Position Statement by Indian College of Cardiology, Journal of Indian College of Cardiology, Volume 10:

Issue 2: Page 56-74, 25th September 2020

B Y Thangamuthu, S Simon, I Muthukrishnan, S Immaneni, F18-FDG PET/CT cardiac viability risk stratification in comparison with euroscore II for revascularization in patients with left ventricular dysfunction (Abstract), Journal of Nuclear cardiology, Volume 27: Issue 1880: Page 304 -306, 2020

## 67. Dr J K A Jameel

Surgical Gastroenterology, Apollo Main Hospitals, Chennai

### Lectures

Scientific Committee Secretary, Joint RCSEd and IAGES surgical conference, Indo-UK Surgicon, 2020

### Presentations

Presentation, A Laparoscopic Surgical video, Indo-UK Surgicon, 15th – 16th October 2020

Presentation, A Laparoscopic Surgical video, Annual Clinical Congress, American College of Surgeons, USA, 4th – 6th October 2020

### Publications

Jainudeen Khalander Abdul Jameel, Aishwarya K Marimuthu, Purnima Ramkumar, Mohammed S Abdulsalam, Prabu Pandurangan, Maya Menon, Myeloma coexisting with jejunal light chain amyloidosis, International journal of Research in Medical Sciences, Volume 8: Issue 10: Page 3738 – 3741, 2020

### Professional Societies' Positions

International Surgical Tutor, Royal College of Surgeons of Edinburgh, UK, since 9th October 2020

### Awards

Fellowship, American College of Surgeons (FACS),

Annual Clinical Congress, American College of Surgeons, USA, 2nd – 7th October 2020

## 68. Dr Jagadeesh Chandrasekaran

Internal Medicine, Apollo Main Hospitals, Chennai

### Publications

Dr Jagadeesh Chandrasekaran, Dr Mathi Manoj Kumar R, Dr Shobana Paulraj, Dr Venkatakarthikeyan Chokkalingam, Melioidosis presenting as parotid abscess in an adult- A Case report, International Journal of Medical and Biomedical Studies, Volume 4: Issue 3: Page 22-24, March 2020

Jagadeesh Chandrasekaran, Neetu Mariam Alex, Interstitial granulomatous dermatitis: a rare case report of dermatological manifestation of rheumatoid arthritis, International Journal of Research in Medical Sciences, Volume 8: Issue 7: Pages 2688-2692, July 2020

Jagadeesh Chandrasekaran, Phani Krishna Machiraju, Immunoglobulin G4-related disease - diagnostic dilemma and importance of clinical judgement: a case report, International Journal of Research in Medical Sciences, Volume 8: Issue 11: Pages 4144-4148, November 2020

### Professional Societies' Positions

Member, Occupational and Environmental Health Committee, American College of Chest Physicians, since 2019

## 69. Dr Jeeva

Orthopaedic, Apollo Main Hospitals, Chennai

### Awards

Gold Medal, for the best paper- new operating technique in cervical myelopathy, Tamil Nadu Orthopedic Association, 2020

## 70. Dr L Sundararajan

Respiratory Medicine, Apollo Main Hospitals, Chennai

### Publications

Lakshmikanthan Sundararajan, Surendran Aneeshkumar, Use of risk calculator in predicting postoperative respiratory failure in patients undergoing elective/emergency surgery at a tertiary care hospital in South India, Indian Journal of Respiratory Care, Volume 9: Issue 1: Page 47-51, 2020

### Editorial Boards Membership

Reviewer, Lung India Peer reviewed Journal, since March 2003

### Professional Societies' Positions

Life time member, Indian Chest society, since January 2020

Member, Royal College of Physician and Surgeon, Glasgow, since March 2001

## 71. Dr M K Mani

Nephrology, Apollo Main Hospitals, Chennai

### Awards

GAPIO Lifetime Achievement Award, X GAPIO Annual Conference, Nagpur, 4th January 2020

## 72. Dr M M Yusuf

CTVS, Apollo Main Hospitals, Chennai

### Lectures

Lecture, Robotic assist CABG experience, Indian Association of Cardiothoracic surgery conference, Ahmedabad, February 2020

### 73. Dr Madan Mohan Reddy

Orthopedic, Apollo Main Hospitals, Chennai

#### Professional Societies' Positions

Member, General Medical Council, London, UK

Member, American Academy of Orthopaedic Surgeons (AAOS)

Member, Indian Arthroplasty Association

Member, Indian Society of Hip and Knee Surgeons

Member, Asia- Pacific Arthroplasty Association

Member, Tamil Nadu Orthopedic Association

Member, Madras Orthopaedic Society

Member, International Cartilage Regeneration and Joint Preservation Society

### 74. Dr Mamta Soni

Hematology and Clinical Pathology, Apollo Main Hospitals, Chennai

#### Publications

Dr Mamta Soni, Dr Ram Gopalakrishnan, Dr Raju Vaishya, Dr prabu P, D-dimer level is a useful predictor for mortality in patients with COVID-19: Analysis of 483 cases, Diabetes and Metabolic Syndrome Clinical Research and Reviews, Volume 14: Issue 6: Page 2245-2249, November 2020

Dr Mamta Soni, Evaluation of eosinopenia as a diagnostic and prognostic indicator in COVID -19 infection - Research paper, International Journal of Laboratory Hematology, Page 1-5, 8th December 2020

Soni M, Sundaram S, Annigeri R, Urine abnormalities predict acute kidney injury in COVID-19 patients: An analysis of 110 cases in Chennai, South India, Diabetes Metab Syndr, Volume 15: Issue 1: Page 187-191, 2020

#### Lectures

Lecture, Haematology in COVID 19, APCovinar, Department of Health and Family welfare, Andhra Pradesh, 15th December 2020

COVID 19 Management - How do we contribute: A Haematology Laboratory Perspective, Chapter of IAPM, Tamil Nadu and Pondicherry, 11th July 2020

#### Editorial Boards Membership

Associate Editor, Apollo Medicine Journal, since 2020

#### Professional Societies' Positions

Lead and Technical assessor, NABL, since 2020

### 75. Dr Maya Menon

Histopathology, Apollo Main Hospitals, Chennai

#### Publications

Maya Menon, Anusmita Tripathy, Balasubramaniam Ramakrishnan, Arshee Badar, Analysis of nonneoplastic medical renal diseases in tumor nephrectomy specimens predicting future renal function, Oncology Journal of India, Volume 4: Issue 2: Page 60-66, 2020

Maya Menon, Shreya Kar, Saloni Naresh Shah, N Geetha, Primary Ewing's sarcoma/Primitive neuroectodermal tumour of the kidney: Report of four cases from a tertiary care centre, Volume 3, December 2020

### 76. Dr Meera V V Ragavan

Urogynecology, Apollo Main Hospitals, Chennai

#### Professional Societies' Positions

Member, General Medical Council (GMC), since 2002

Member, Royal College of Obstetricians and

Gynaecologists (RCOG), since 2002

Member, Tamil Nadu Medical Council (TMC), since 1996

Fellow Royal College of Obstetricians and Gynaecologists, since 2015

Member, Obstetric and Gynaecological Society of Southern India (OGSSI), since 2012

Member, Federation of Obstetric and Gynaecological Societies of India (FOGSI), since 2012

Member, International Urogynae Association (IUGA), since 2012

Member, Urogynae Pelvic floor and Incontinence Association (UPIA), since 2013

Treasurer, Urogynae and Pelvic Reconstruction Society of India (UPRSSI), since 2019

Member, Global Interstitial and Bladder Pain Society (GIBS), since 2014

Member, Indian Menopause Society (IMS), since 2017

Member, Robotic Surgeon Council (RSC), since 2013

Member, Indian Association of Gynae Endoscopists, Since 2019

Director of Research, Indian Society of Lifestyle Medicine, Since 2020

Fellow, South Zone RCOG of India, Since 2020

## 77. Dr Muralidhar Rajagopal

Dermatology, Apollo Main Hospitals, Chennai

### Orations

Lecture, Psoriasis changing perspectives and refining borders, National Oration of Indian Association of Dermatologists Venereologists and Leprologists, DERMACON, Pune, 1st February 2020

### Awards

Lifetime Achievement Award, SAARC Dermatology Conference, Jodhpur, 2020

## 78. Dr N K Narayanan

Endocrinology and Diabetology, Apollo Main Hospitals, Chennai

### Lectures

Lecture, m-Health in Diabetes, TREND conference, Tamilnadu and Puducherry Endocrine society, November 2020

### Editorial Boards Membership

Editor, Journal Endocrine, Diabetes and Metabolism, a Wiley publication, UK, since 2017

### Professional Societies' Positions

Member, ENDO society, USA

Member, Tamilnadu and Puducherry Endocrine society

Member, American diabetes association

## 79. Dr Nagarajan Ramakrishnan

Critical Care Medicine and Sleep Medicine, Apollo Main Hospitals, Chennai

### Chapters contributed to text books

Nagarajan Ramakrishnan, Acute Coronary Syndromes, Chapter 25, ICU Protocols. A Step-wise Approach, Editors - Chawla, Rajesh, Todi, Subhash, Vol 1, Springer, Page 247-258, 2020

Nagarajan Ramakrishnan, Spontaneous Intracerebral Hemorrhage, Chapter 28, ICU Protocols. A Step-wise Approach, Editors - Chawla, Rajesh, Todi, Subhash, Vol 1, Springer, Page 285-290, 2020

Nagarajan Ramakrishnan, Intracranial pressure monitoring and management, Chapter 33, ICU Protocols. A Step-wise Approach, Editors - Chawla, Rajesh, Todi, Subhash, Vol 1, Springer, Page 327-338, 2020

Nagarajan Ramakrishnan, Brain Death, Chapter 36, ICU Protocols. A Step-wise Approach, Editors - Chawla, Rajesh, Todi, Subhash, Vol 1, Springer, Page 361-371, 2020

Nagarajan Ramakrishnan, Important Time Windows in Managing Critically Ill, Chapter 9.6, Critical Care Update, Editors - Subhash Todi, 2nd edition, Jaypee - The Health Sciences Publisher, Page 417-421, 2020

Nagarajan Ramakrishnan, Perioperative Management of Hypertension, Chapter 5.7, Perioperative Critical Care, Editors - Kulkarni, Atul Prabhakar, 1st edition, Jaypee - The Health Sciences Publisher, Page 547-551, 2020

Nagarajan Ramakrishnan, Evaluation and Management of Obstructive Sleep Apnea during Perioperative Period, Chapter 68, Perioperative Critical Care, Editors - Kulkarni, Atul Prabhakar, 1st edition, Jaypee - The Health Sciences Publisher, Page 636-646, 2020

## Publications

Ramakrishnan N, Vadala R, Princess I, Ebenezer R, Krishnan G, Burns in diabetes mellitus patients among indian population: does it differ from the rest?, Indian J Crit Care Med, Volume 24: Issue 1: Page 11-16, 2020

Ramakrishnan N, Promoting clinical practices to sleep better: a dream intensive care unit?, Indian J Crit Care Med, Volume 24: Issue 1: Page 1-2, 2020

Ramakrishnan N, Shankar B, Nutrition Support in Critically Ill Patients with AKI, Indian J Crit Care Med, Volume 24: Issue (S3): Page 135-139, 2020

Ramakrishnan N, Kulkarni A, Hegde A, Acute kidney injury in the critically ill: herein lies the problem!, Indian J Crit Care Med, Volume 24: Issue S3: Page 83-83, 2020

Vijayaraghavan BKT, Venkataraman R, nan N, Critical care epidemiology and research in the face of a pandemic: an opportunity in a crisis, Indian J Crit Care Med, Volume 24: Issue 4: Page 242-244, 2020

Ramakrishnan N, Nandagopal N, Reddy PK, Ranganathan L, Annigeri R, Venkataraman R, comparison of epidemiology and outcomes of acute kidney injury in critically ill patients with and without sepsis, Indian J Crit Care Med, Volume 24: Issue 4: Page 258-262, 2020

Nagarajan Ramakrishnan, Raymond Dominic Savio, Rajalakshmi Parasuraman, Daphnee Lovesly, Bhuvaneshwari Shankar, Lakshmi Ranganathan, Ramesh Venkataraman, Feasibility, tolerance and effectiveness of enteral feeding in critically ill patients in prone position, Journal of the Intensive Care Society, Volume 22: Issue 1: Page 41-46, 2020

Nagarajan Ramakrishnan, Kashyap R, Vashistha K, Saini C, Dutt T, Raman D, Bansal V, Critical care practice in India: Results of the intensive care unit need assessment survey, World J Crit Care Med, Volume 9: Issue 2: Page 31-42, 5th June 2020

Akhvlediani T, Ali SM, Angus DC, Arabi YM, Ashraf S, Baillie JK, Global outbreak research: harmony not hegemony, Lancet Infect Dis, Volume 20: Issue 7: Page 770, June 2020

Neill K J Adhikari, Rajeshwari Arali1, Udara Attanayake, Sampath Balasundaram, Abi Beane, Vijay Chakravarthy, Niyaz Channanath Ashraf, Sri Darshana, Dedeepiya Devaprasad, Arjen M Dondorp, Robert Fowler, Rashan Haniffa, Pramodya Ishani, Augustian James, Issrah Jawad, Devachandran Jayakumar, Chamira Kodipilly, Rakesh Laxmappa, Kishore Mangal, Ashwin Mani,

Meghena Mathew, Sristi Patodia, Rajyabardhan Pattnaik, Dilanthi Priyadarshini, Mathew Pulicken, Ebenezer Rabindrarajan, Pratheema Ramachandran, Kavita Ramesh, Usha Rani, Suchitra Ranjit, Ananth Ramaiyan, Nagarajan Ramakrishnan, Lakshmi Ranganathan, Thalha Rshan, Raymond Dominic Savio, Jaganathan Selva, Implementing an intensive care registry in India: preliminary results of the case-mix program and an opportunity for quality improvement and research, *Wellcome Open Res*, Volume 5: Page 182, 2020

Ramakrishnan N, Vijayaraghavan BKT, Venkataraman R, Breaking barriers to reach farther: a call for urgent action on Tele-ICU services, *Indian J Crit Care Med*, Volume 24: Issue 6: Page 393–397, June 2020

Ramakrishnan N, Padmanaban A, Venkataraman R, Rajagopal S, Devaprasad D, Feasibility and Safety of peripheral intravenous administration of vasopressor agents in resource-limited settings, *J Crit Care Med*, Volume 6: Issue 4: Page 210–216, 2020

Nagarajan Ramakrishnan, Bharath Kumar Tirupakuzhi Vijayaraghavan, Dilanthi Priyadarshini, Aasiyah Rshan, Abi Beane, Ramesh Venkataraman, Rshan Haniffa, Validation of a simplified risk prediction model using a cloud based critical care registry in a lower-middle income country, *PLoS ONE*, Volume 15: Issue 12: Page e0244989, 31st December 2020

Nagarajan Ramakrishnan, Matthias Jacob, Sambit Sahu, Yogendra P Singh, Yatin Mehta, Kuang-Yao Yang, Shuenn-Wen Kuo, Farooq Memom, Shirish Prayag, Rajesh Pande, Nirmal Jaiswal, Tan C Cheng, Amit Mandal, Shanti R Deva, Mohan Mathew, Vineya Rai, Luah Wah, Gopinath Ramachandran, Rajesh Chawla, Z A Khan, J V Divatia, Rajesh Mishra, Pravin Amin, Jayant Shelgaokar, Bernhard Zwissler, Hugo Van Aken, Christian Ertmer, A prospective observational study of rational fluid therapy in asian intensive care units: another puzzle

piece in fluid therapy, *Indian J Crit Care Med*, Volume 24: Issue 11: Page 1028–1036, November 2020

Nagarajan Ramakrishnan, Meghena Mathew, Srilekha Sairam, Ashwin K Mani, The role of plasma exchange for fulminant lupus with multiorgan involvement, *Indian J Case Reports*, Volume 6: Issue 11: Page 652–655, November 2020

Nagarajan Ramakrishnan, Jagdish C Suri, AG Ghoshal, Dipak Bhattacharya, Dipti Gothi, Dipankar Dutta, Gopal Raval, Manoj Goel, RMPL Ramanathan, Seemab Shaikh, Sushant Khurana, Tejas M Suri, A consensus statement on the sleep medicine practice during the COVID-19 pandemic, *Indian Journal of Sleep Medicine*, Volume 15: Issue 2: Page 21–25, April–June 2020

Nagarajan Ramakrishnan, Raghavan Murugan, Marlies Ostermann, Zhiyong Peng, Koichi Kitamura, Shigeki Fujitani, Stefano Romagnoli, Luca Di Lullo, Nattachai Srisawat, Subhash Todi, Eric Hoste, Chethan M Puttarajappa, Sean M Bagshaw, Steven Weisbord, Paul M Palevsky, John A Kellum, Rinaldo Bellomo, Claudio Ronco, Net ultrafiltration prescription and practice among critically ill patients receiving renal replacement therapy: a multinational survey of critical care practitioners, *Crit Care Med*, Volume 48: Issue 2: Page e87–e97, February 2020

## Lectures

Sleep problems in Critically Ill patients lecture, Annual Conference of Indian Society of Critical Care Medicine, Criticare, Hyderabad, February 2020

OSA and Metabolic disorders lecture, RSSDI conference, Virtual Meeting, November 2020

Tele-Sleep Medicine lecture: An opportunity in a crisis, Annual International Conference of Telemedicine Society of India, Telemedicon, Virtual Meeting, December 2020



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## Editorial Boards Membership

Editor, Indian Journal of Sleep Medicine, since 2010

Associate Editor, Apollo Medicine Journal, since 2012

Scientific Reviewer, Indian Journal of Critical Care Medicine, since 2006

Scientific Reviewer, Indian Journal of Anaesthesiology, since 2012

Scientific Reviewer, Sleep and Vigilance, since August 2018

## Professional Societies' Positions

Member, Credentials Committee, Indian society of Critical Care Medicine, since 2020

Member, National Advisory Committee, Indian Sleep Disorders Association, since January 2016

## 80. Dr Nandini Sethuraman

Microbiology, Apollo Main Hospitals, Chennai

## Publications

Sethuraman N, Thirunarayan M A, Gopalakrishnan R, Rudramurthy S, Ramasubramanian V, Parameswaran A, Talaromyces marneffeii outside endemic areas in India: an emerging infection with atypical clinical presentations and review of published reports from India, Mycopathologia, Volume 185: Issue 5: Page 893-904, October 2020

Sethuraman N, Jeremiah S S, Ryo A, Interpreting Diagnostic Tests for SARSCoV-2, JAMA, Volume 323: Issue 22: Page 2249-2251, 2020

Nandini Sethuraman, Jeremiah Sundararaj Stanleyraj, Rajesh Gupta, Sohanlal Thiruvoth, Manisha Gupta, Akihide Ryo, Treating COVID-19: are we missing out the window of opportunity?, Journal of Antimicrobial Chemotherapy, Volume 76:

Issue 2: Page 283-285, 2020

Sethuraman N, Mohan B, Gautam N, Kaur H, Taneja N. Evaluation of matrix assisted laser desorption ionisation-time of flight mass spectrometry in direct identification of bacteriuria from urine samples, Indian J Med Microbiol, Volume 38: Issue 3: Page 293-298, 2020

## Lectures

Organising Secretary, Mycocon, Annual conference of Fungal Infections Study Forum, Chennai, 17th - 19th July 2020

Lecture, Beta D glucan for diagnosis of invasive fungal infections, AIIMS Jodhpur for SIHAM, Annual conference of Indian Society of Medical Mycology (ISMM), Jodhpur, 14th February 2020

Virtual lecture, Virology and diagnosis of COVID-19, Galgotias University, 23rd May 2020

Virtual lecture, Fast tracking of clinical trials for COVID-19, Chacha Nehru Bal Chikitsalaya, 21st November 2020

Virtual symposium, Career Options in Medical Microbiology, e-Microcon, of the Indian Association of Medical Microbiology conference, 11th December 2020

## Professional Societies' Positions

Member, Indian Association of Medical Microbiology, since 2012

Member, International Society of Human and Animal Mycology, since 2014

Member, Indian Society of Medical Mycology, since February 2020

Member, Clinical Infectious Diseases Society, since March 2020

## 81. Dr Nitesh Jain

Urology, Apollo Main Hospitals, Chennai

### Publications

Nitesh Jain, Sanjay Prakash Jayaprakash, Mathisekaran Thangarasu, Sandeep Bafna and Rajesh Paul, In situ management of large upper ureteric calculus by mini-percutaneous nephrolithotomy in the era of retrograde intrarenal surgery, Journal of Research and Reports in Urology, Volume 12: Page 633-638, 10th December 2020

Nitesh Jain, J Sanjay Prakash, T Mathisekaran, Pritam Chatterjee, Sandeep Bafna, Complex arteriovenous malformation in a kidney with multiple renal arteries: a case report, Journal of Clinical and Diagnostic Research, Volume 14: Issue 12: Page PD08-PD09, December 2020

Nitesh Jain, Sanjay Prakash J, Mathisekaran T, Sandeep Bafna, Laparoscopic management of a misplaced ureteral stent in the duodenum, Journal of Endourology Case Reports, Volume 6: Issue 4: Page 451- 453, December 2020

Nitesh Jain, J Sanjay Prakash, Thangarasu Mathisekaran, Sandeep Bafna, Rajesh Paul, Nivash Selvaraj, Robotic management of pelvic lipomatosis—experience with difficulties encountered and the techniques to successful outcomes, European Urology Open Science, Volume 21: Pages 33-40, October 2020

## 82. Dr Piramanayagam

Gastroenterology, Apollo Main Hospitals, Chennai

### Awards

ICONS of Healthcare Award, Times Healthcare Achievers, February 2020

## 83. Dr Prasannakumar Reddy

Surgical Gastroenterology, Apollo Main Hospitals, Chennai

### Chapters contributed to text books

Dr Prasannakumar Reddy, Minimal Access Surgery for Luminal GI Neuroendocrine Tumours (NETs), IAGES Recent Advances in Minimal Access Surgery-2, Chapter 5, Editor - Subhash Khanna, 1st edition, Jaypee - The Health Science Publisher, 2020

### Oration

How to sustain Medical Practice in this Modern World, late sri Ganni Satyanarayana Murthy Memorial oration (gold medal), GSL Medical college, Rajamundry, AP, 13th March 2020

### Lectures

Faculty, Laparoscopy for Luminal Neuro Endocrine Tumours of the GUT, Indian Association of Gastro endosurgeons, Guwahati, Assam, 8th February 2020

Moderator, National Hernia Carnival, GEM Hospital, Chennai, 6th March 2020

Speaker, Trans Anal Minimally Invasive Surgery (TAMIS), North East Gastro meet, Guwahati, 1st – 2nd February 2020

Chairperson, Trans Anal Minimally Invasive Surgery(TAMIS), North East Gastro meet, Guwahati, 1st – 2nd February 2020

Guest Lecture, Gastric cancer update, Chennai city chapter of Association of surgeons of India, Virtual, 27th September 2020

Talk, Laparoscopy for Gastro intestinal Stromal tumors (GIST) of stomach (IAGES with RCS Edin), Indo UK surgeon/chairman scientific committee virtual 2020

Talk, Laparoscopy for Gastro intestinal Stromal tumors (GIST) of stomach (IAGES with RCS Edin), Indo-UK conference, IAGES and RCS Edin, Virtual, 22nd -23rd October 2020

|      |                |                     |                 |                     |     |           |             |          |                           |
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Moderator, Laparoscopy for Gastro intestinal Stromal tumors (GIST) of stomach (IAGES with RCS Edin), Indo-UK conference, IAGES and RCS Edin, Virtual, 22nd -23rd October 2020

Chairman, Ethical committee meeting, J N J institute of Endo surgery, Chennai, Zoom, 19th December 2020

#### 84. Dr Premkumar Balachandran

Minimal Access, Bariatric and Robotic Surgery, Apollo Main Hospitals, Chennai

##### Lectures

Lecture, Trouble shooting in ventral hernia, A webinar- Trouble shooting in hernia surgery, Hernia Society and Meril Endo Surgery, Chennai, 24th September 2020

E Tep for inguinal hernia, CME, Chennai Hernia Society, AWR Surgeon's Community and Tamilnadu Bariatric Club, Chennai, 25th October 2020

TAPP hernia repair, Interactive webinar session- Basics of laparoscopic inguinal hernia, Chennai Hernia Society and Johnson and Johnson, Chennai, 6th April 2020

E tep hernia repair- How does it differ from standard TEP hernia repair? Paradigm shift in groin hernia repair, Ethicon digital education, 20th June 2020

Laparoscopic TEP hernia repair, Webinar on inguinal and ventral hernia repair, Association of Surgeons of India, Puducherry state branch, Puducherry, 8th September 2020

Difficult situations and way out in haemorrhoids, ASI Chennai city branch, Haemorrhoids masters meeting, Chennai, 16th August 2020

##### Editorial Boards Membership

Editorial board member, World Journal of

Laparoscopic Surgery, since 2008

Editorial board member, Frontiers in Visceral Surgery, since 2014

##### Professional Societies' Positions

Vice president, International College of Robotic Surgeons, since 2012

Founding EC member, Indo Gendolaparoscopic Society (IGELS), since 2018

##### Awards

National health care excellence award, Excellence in hernia surgery and abdominal wall reconstruction, Praxis Media, New Delhi, 15th August 2020

Icons of Tamilnadu, for my role in propagating Laparoscopic and hernia surgery, Times of India, 21st October 2020

Service excellence award in laparoscopic and hernia surgery, Health care excellence awards, Times of India, 31st December 2020

#### 85. Dr Rajesh Kesavan

Podiatric Surgery, Apollo Main Hospitals, Chennai

##### Professional Societies' Positions

Member, Executive Board, ADFS, since 2020

#### 86. Dr Rajeshwari Nayak

Interventional Cardiology, Apollo Main Hospitals, Chennai

##### Publications

Rajeshwari Nayak, Yemma Vijayachandra Reddy, Girinath Maligail Ramakrishnan, Rochita Ramanan, Sathyamurthy Immineni, Jenifer Johnson, Very rare giant coronary aneurysm, Asia Intervention Journal, Volume 6: Issue 1: Page ISSN: 2426-3958, July 2020

### **Presentations**

Presentation, A case of complex Robotic PCI for a instant total occlusion, CSI, National conference, 2020

### **Awards**

First woman in India to use robotics during complex PCI, Corindus Vascular Robotics, 2020

## **87. Dr Rajkumar Palaniappan**

Bariatric Surgery, Apollo Main Hospitals, Chennai

### **Awards**

Fellowship, Metabolic and Bariatric Surgery (FMBS) for his contribution to the growth and development of Bariatric surgery in India, 2020

ICONS of Healthcare Award, Times Healthcare Achievers, February 2020

## **88. Dr Ramakrishnan**

Rheumatology, Apollo Main Hospitals, Chennai

### **Awards**

Dr Rajamma Memorial Oration Award, Indian Medical Association, December 2020

## **89. Dr Ramasubramanian Venkatasubramanian**

Infectious Diseases and Tropical Medicine, Apollo Main Hospitals, Chennai

### **Publications**

V Ramasubramanian, Ashwini Choudhary, R Gopalakrishnan, P Senthur Nambi, M A Thirunarayan, Sowmya Sridharan, surgical site infections caused by rapidly growing nontuberculous mycobacteria: an under-recognized and misdiagnosed entity, Indian Journal of Surgery, DOI:10.1007/s12262-020-02383-9, 22nd May 2020

V Ramasubramanian, Laxman G Jessani, Ram Gopalakrishnan, Suresh D, S Nambi, Suboptimal adherence and associated factors contributing to virological failure on first line art at a private tertiary care centre in south india: implications for individualized adherence interventions in resource-limited settings, Acta Scientific Microbiology, Volume 3: Issue 10: Page 42-52, October 2020

V Ramasubramanian, Krishna Prabha Premachandran, P Senthur Nambi, Ram Gopalakrishnan, Avifavir in Treating patients with moderate Covid-19, Clinical Infectious Diseases. Correspondence, doi: 10.1093/cid/ciaa1601, 27th October 2020

### **Presentations**

Poster Presentation, Post Covid-19 Mucormycosis: A Case Series, Annual Conference of the Clinical Infectious Disease Society, CIDSCON, 16th -18th November 2020

### **Professional Societies' Positions**

Member, Indian Medical Association, since 1998

Member, Association of Physicians of India, since 1998

Member, Infectious Diseases Society of America, since 2005

Member, Indian Society of Critical Care Medicine, since 2005

Member, Royal College of Physicians and Surgeons of Glasgow, since 2007

Member, European Society of Clinical Microbiology and Infectious Diseases, since 2005

Member, International Society of Travel Medicine, since 2010

Member, International Society of Infectious Diseases, since 2013

Member, Aids Society of India, since 2010

Member, Society of Indian Human and Animal Mycologists, since 2010

Member, Society of Healthcare Epidemiology of America, since 2013

Member, Global Association of Physicians of Indian Origin (GAPIO), since 2020

## 90. Dr Ramesh Venkataraman

Critical Care, Apollo Main Hospitals, Chennai

### Publications

Ramesh Venkataraman, Raymond Dominic Savio, Rajalakshmi Parasuraman, Daphnee Lovesly, Bhuvaneshwari Shankar, Lakshmi Ranganathan, Nagarajan Ramakrishnan, Feasibility, tolerance and effectiveness of enteral feeding in critically ill patients in prone position, Journal of the Intensive Care Society, Volume 22: Issue 1: Page 41-46, 2020

Ramesh Venkataraman, Kishore K Rajasekaran, Furosemide Stress test in predicting acute kidney injury outcomes, Indian Journal of Critical Care Medicine, Volume 24: Issue (Supp 3), Page S100-S101, April 2020

Ramesh Venkataraman, Bundling Out Catheter-associated Urinary Tract Infection, Indian Journal of Critical Care Medicine, Volume 24: Issue 7: Page 502-503, 2020

Dr Ramesh Venkataraman, Thromboelastogram to detect hypercoagulability in critically ill COVID -19 patients: Has its time come-Editorial, Indian Journal of critical care Medicine, Volume 24: Issue 12: Page 1154-1155, December 2020

## 91. Dr Refai Showkathali

Interventional Cardiology, Apollo Main Hospitals, Chennai

### Publications

Dr Refai Showkathali, Dr Radhapriya, Dr Sankeerthana, Dr Selva Nandha, Dr Suvetha Shree, Dr tajeshwari Nayak, Dr Abraham Oomman, Dr Asha Mahilmaran, Acute Coronary Syndrome admissions and outcome during COVID -19 pandemic- Report from a Large tertiary centre In India- Research Brief, Indian Heart J, Volume 72, Issue 6, Page 599-602, November-December 2020

Dr Refai Showkathali, Dr Radhapriya, Dr Abraham Oomman, Dr Abhinaya K, Thrombolysis in high-risk patients with left-sided obstructive Prosthetic Valve Thrombosis - Research Brief, Kardiologia Polska, Volume 78: Issue 11: Page 1166-1168, 25th November 2020

R Showkathali, B C A Dasari, A Oomman, P Govindarajulu, L Narra, R Mao, S Gunasekaran, S Satish, S Immaneni, K P Pramodkumar, Y V C Reddy, R Nayak, Addition of biomarker high sensitivity troponin I (hSTROPI) to QRISK3 score in predicting significant coronary artery disease (CAD), European Heart Journal, Volume 41: Issue Sup 2: Page ehaa 946.2899, November 2020

Refai Showkathali, Dr Radhapriya, Dr Bipin, Dr Lavanya, Dr Abraham Oomman, Dr Pramod, Dr Rajeshwari Nayak, Dr Cardiac Intensive Care Unit admissions during COVID - 19 pandemic - Single centre experience - Research Brief, Indian Journal Critical Care Medicine, Volume 24: Issue 11: Page 1103-1105, 2020

Dr Refai Showkathali, Dr Radhapriya, Dr Abraham Oomman, Early discharge of patients (within 24 hours) after percutaneous coronary intervention is feasible and safe in Indian set up - Research Brief, Indian Heart Journal, Volume 72: Issue 2: Page 126-127, March-April 2020

### Professional Societies' Positions

Abstract Grader, European Society of Cardiology (ESC) Congress, Amsterdam, 29th August - 1st September 2020

## 92. Dr Safinaaz

General Surgery, Apollo Main Hospitals, Chennai

### Presentations

Presentation, Interesting case post cerebral insufficiency in mixed connective tissue disease, BMI, 2020

### Professional Societies' Positions

Member, API RSSDI City Physician's Meet

Member, Indian Medical Association

## 93. Dr Sai Satish

Interventional Cardiology, Apollo Main Hospitals, Chennai

### Awards

ICONS of Healthcare Award, Times Healthcare Achievers, February 2020

## 94. Dr Saloni Naresh

Histopathology, Apollo Main Hospitals, Chennai

### Publications

Saloni Shah, Sheba Sweetline Jacob, Rama Mani, Ashok Parameswaran, Sunil Kumar, Rajeev A Annigeri, Raja Mahesh, Ramya Uppuluri, Renal Microsporidiosis in Pediatric Bone Marrow Transplant Recipients: A Case Series, Turkish journal of Pathology, Volume 36: Issue 1: Page 68-72, January 2020

Saloni Naresh Shah, N Geetha, Diffuse cavernous hemangioma of the uterus mimicking adenomyosis- A rare case report, Indian Journal of Obstetrics and Gynecology Research, Volume 7: Issue 2: Page 283-285, 2020

## 95. Dr Samuel Mathew Kalarickal

Interventional Cardiology, Apollo Main Hospitals, Chennai

### Lectures

Live Case Transmission, Interventional Cardiology Meeting - Experience from Masters, Italy, 13th February 2020

## 96. Dr Shreya Kar

Histopathology, Apollo Main Hospitals, Chennai

### Publications

Shreya Kar, Saloni Naresh Shah, Maya Menon, N Geetha, Primary Ewing's sarcoma/Primitive neuroectodermal tumour of the kidney: Report of four cases from a tertiary care centre, Volume 3, December 2020

## 97. Dr Srinivasan KN

Interventional Cardiology, Apollo Main Hospitals, Chennai

### Chapters contributed to text books

Dr Srinivasan KN, Does coronary artery disease have an infectious etiology?, Chapter 35, Cardiology update 2020, Editors- PP Mohanan, MM Krishnan, Evangel, Page 263-269, 2020

## 98. Dr Uma Krishnaswamy

General Surgery and Breast Surgery, Apollo Main Hospitals, Chennai

### Professional Societies' Positions

Inter collegiate Assessor, Royal Surgical Colleges, UK, since 2020

### Examinership

Examiner, FRCS (International), 2020



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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

## 99. Dr Usha Srinivas

Medical Gastroenterology, Apollo Main Hospitals, Chennai

### Publications

Anand Totagi, Usha Srinivas, Piramanayagam Paramasivan, Sankaranarayanan Krishnan, Kallipatti Ramasamy Palaniswamy, AT Mohan, Sarojini Ashok Parameswaran, Ubal Dhus, Muthuswamy Hariharan, MS Revathy, Natarajan Murugan, Karunakaran Premkumar, Seshadri Venkatesh, Preethi Mahalingam, Santhosh Kumar, Comparison of complete rockall score, Glasgow-Blatchford score, and AIMS 65 score for predicting in-hospital mortality in patients presenting with upper gastrointestinal hemorrhage at a Tertiary Care Hospital in Southern India, Gastroenterology Hepatology and Endoscopy Practice, Volume 1: Issue 2: Page 55-61, 5th October 2020

## 100. Dr Venky Munikrishnan

Colorectal Surgery, Apollo Main Hospitals, Chennai

### Awards

Apollo Clinical Award, Distinguished Academician for their exemplary services in academics, 4th February 2020

## 101. Dr Vidya V

ENT, Apollo Main Hospitals, Chennai

### Publications

Vidya Venkatesan, Abdul Rub Hakim Mohammed, Udhaya Balasubramanian, Incidental Cancers in Asymptomatic Adults: Role of Otorhinolaryngologist in Routine Health Checkup, Glob J Oto, Volume 23: Issue 3: Page 556113, 2020

## 102. Dr YVC Reddy

Cardiology, Apollo Main Hospitals, Chennai

### Awards

Apollo Clinical Award, Distinguished Clinician for exemplary clinical services, Apollo Hospitals, Chennai, 4th February 2020

## Delhi

## 103. Dr Achal Bhagat

Psychiatry, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Ethics Committee Member, National Institute of Pathology, since 2018

Chair Person, AADI, since 2015

Chair Person, SARTHAK NGO, since 1995

## 104. Dr Ajit Saxena

Urology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

President, Society of Urologists of Noida and Ghaziabad, since 2012

President, Delhi Andrology Society, since 2015

Member, Urology Society of India, since 1989

Treasurer and Executive member, Indian Andropause Society, since 2019

## 105. Dr Akshatha Sharma

Fetal Medicine, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Treasure, Fetal Medicine Foundation India, since 2016

### 106. Dr Ameet Kishore

ENT and Cochlear Implant, Indraprastha Apollo Hospitals, Delhi

#### Awards

Best ENT and Cochlear Implant Surgeon Award, Indian Medical Tourism Summit, Medico Trip India LLP to felicitate doctors who have brought laurels to the world, April 2020

### 107. Dr Amit Kumar Agarwal

Orthopedic, Indraprastha Apollo Hospitals, Delhi

#### Editorial Boards Membership

Section Editor, Arthroplasty (JCOT), since 2020

Associate Editor, IJO, since 2019

#### Professional Societies' Positions

Faculty, MCH Orthopedic, Texila American University, since 2018

### 108. Dr Amita Mahajan

Pediatric Oncology, Indraprastha Apollo Hospitals, Delhi

#### Publications

Amita Mahajan, Himani Dhingra, Manas Kalra, Safe administration of high-dose methotrexate with minimal drug level monitoring: Experience from a center in north India, Pediatric Blood and Cancer, Vol. 67: Issue 11, 19th August 2020

Amita Mahajan, Ramandeep Singh Arora, Veronique Dinand, Manas Kalra, Sandeep Jain, Ankit Taluja, Piali Mandal, Jagdish Chandra, InPOG-HL-15-01 - Challenges and lessons learnt in setting up the first collaborative multicentre prospective clinical trial in childhood cancer in India, Pediatric Hematology Oncology Journal, Vol. 5: Issue 4: Pages 166-170, October 2020

#### Professional Societies' Positions

Executive Member, Indian Paediatric Oncology Group, since 2019

Chair Person, HL Sub Committee (InPOG), since 2019

### 109. Dr Anil Kumar Sharma

General Anaesthesia, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Executive Member, Anaesthetist Society, since 2019

### 110. Dr Anita Kaul

Fetal Medicine, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Executive Member, Fetal Medicine and Genetic Committee FOGSI, since 2012

Executive Member, Imaging Science Committee FOGSI, since 2018

### 111. Dr Anupam Sibal

Pediatric Gastroenterology and Hepatology, Indraprastha Apollo Hospitals, Delhi

#### Publications

Anupam Sibal, Nida Mirza, Smita Malhotra, Renal Calculi as Initial Presenting Symptom of Glycogen Storage Disease (Type 1 A) in Early Infancy, Journal of Child Science, Volume 10: Issue 1: Page e45-e47, January 2020

Sibal A, Mirza N, Mehta S, Bharadwaj R, Malhotra S, Clinical profile of Acute Pancreatitis in children and adolescents from a single centre in Northern India, Journal of Hepato-Biliary-Pancreatic Sciences

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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
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- Manuscript ID JHBPS-2020-0605, 2020

### Lectures

Lecture, WHO Global Consultation: A Decade for Patient Safety 2020-2030, Formulating the Global Patient Safety Action Plan, Geneva, Switzerland, 24th-26th February 2020

Lecture, Transforming Healthcare- The Apollo Odyssey, MindShare, Intermountain Healthcare, Deer Valley, Utah, USA, 3rd -4th February 2020

Lecture, India's response to Covid-19, (BAPIO) British Association of Physicians of Indian Origin, 19th September 2020

Lecture, COVID-19: navigating the response across 16 states, FICCI Webinar, 29th September 2020

Lecture, Fortifying against the COVID War- The Apollo Way, WHO Global Webinar, 9th July 2020

Lecture, Fortifying against the COVID War- The Apollo Way, IHF Webinar, 26th May 2020

Lecture, Metabolic liver diseases: From suspicion to diagnosis, Indian Academy of Pediatrics, Indore, 8th -9th January 2020

Lecture, Annual Conference, Global Association of Physicians of Indian Origin (GAPIO), Nagpur, 3rd - 5th January 2020

### Editorial Boards Membership

Executive Editor, Apollo Medicine Journal, since 2016

### Professional Societies' Positions

President, Global Association of Physicians of Indian Origin (GAPIO), since January 2020

Honorary Clinical Professor, Macquarie University, Sydney, Australia, since June 2015

Member, Regional Middle East International Advisory Board of Joint Commission International (JCI), since 2011

Member, Asian Pan Pacific Society of Pediatric Gastroenterology Hepatology and Nutrition (APPSPGHAN), Executive Council since 2005

## 112. Dr Anupam Raj

General Anaesthesia, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Member, ISA, since 2019

Member, Indian Society of Liver Transplant, since 2014

## 113. Dr Arun Prasad

GI and Bariatric Surgery, Indraprastha Apollo Hospitals, Delhi

### Publications

A Prasad, A G Bhasker, P Praveen Raj, R Wadhawan, M Khaitan, A J Agarwal, O Tania, S Baig, R Palaniappan, H V Shivram, S Shah, V Soni, M Bhandari, R Shivahare, S Dhorepatil, P Chowbey, M Narwaria, S Shah, R Khullar, OSSI (Obesity and Metabolic Surgery Society of India) guidelines for patient and procedure selection for bariatric and metabolic surgery, Obes Surg, Volume 30: Issue 6: Page 2362-2368, 2020

Prasad A, Almimo C Ramos, Jean-Marc Chevallier, Kamal Mahawar, Wendy Brown, Lilian Kow, Kevin P White, Scott Shikora, IFSO (International Federation for Surgery of Obesity and Metabolic Disorders) Consensus Conference Statement on One-Anastomosis Gastric Bypass (OAGB-MGB): Results of a Modified Delphi Study, Obes Surg, Volume 30: Issue 5: Page 1625-1634, May 2020

Arun Prasad, Aparna Govil Bhasker, P. Praveen Raj, Randeep Wadhawan, Manish Khaitan, Abhay Jugal Agrawal, Om Tania, Sarfaraz J. Baig, Raj Palaniappan, H. V. Shivaram, Sumeet Shah, Vandana Soni, Mohit Bhandari, Rakesh Shivhare, Shrihari Dhorepatil, Pradeep Chowbey, Mahendra Narwaria, Shashank Shah, Rajesh Khullar, Trends and progress of bariatric and metabolic surgery in India, Updates in Surgery, Volume 72: Page 743-749, 24th April 2020

Arun Prasad, Sandeep Aggarwal, Kamal Mahawar, Manish Khaitan, Praveen Raj, Randeep Wadhawan, NandaKishore Dukkupati, Kuldeepak S Kular, Aparna Govil Bhasker, Vandana Soni, Brijesh Madhok, Sarfaraz Baig, Raj Palaniappan, H V Shivaram, Deep Goel, Vivek Bindal, Sukhvinder Saggi, Rajesh Shrivastava, Sumeet Shah, Shrihari Dhorepatil, Rajesh Khullar, Obesity and Metabolic Surgery Society of India (OSSI) recommendations for bariatric and metabolic surgery practice during the COVID-19 pandemic, Obes Surg, Volume 30: Issue 12: Page 5101-5107, December 2020

Arun Prasad, Abhishek Tiwari, Nimo Osman, Minimally access laparoscopic and robotic surgery during the COVID-19 era, Apollo Medicine, Volume 17: Issue 3: Page 185-189, 2020

Prasad A, Tiwari A, Siddiqui D, Osman N, Obesity and COVID-19, Apollo Medicine, Volume 17: Issue 5: Page 14-17, 2020

### Lectures

Lecture, Robotic Hernia Surgery, AWR panel, Indian Experience, Kolkata, 28th August 2020

Lecture, Robotic and VATS Thymectomy Surgery, Thoracoscopy FALS, Mumbai, 20th September 2020

Lecture, Robotic Hernia Surgery, Hernia Society of India Conference (HSI video), Kolkata, 26th September 2020

Lecture, Gastroesophageal Reflux Disease and Minigastric bypass surgery, International MGB OAGB Club, Naples, Italy, 26th September 2020

Lecture, Robotic Colorectal Surgery, Fellowship in Advance, Laparoscopic Surgery (FALS), Laparoscopic Surgery (FALS), Conference, Mumbai, 28th September 2020

Lecture, Why Robotic Bariatric Surgery, Clinical Robotic Surgery Association, Chennai, 3rd October 2020

Lecture, Robotic Hernia Surgery, IAGES National Conference, Mumbai, 16th October 2020

Lecture, Mini gastric bypass VBU Webinar Conference, Indore, 19th October 2020

Lecture, Etop Ventral Hernia Surgery, AWRSC Meeting, New Delhi, 26th October 2020

Chair in ANZAWR, International Australian Society Meet, Melbourne, Australia, 7th November 2020

Lecture, Robotics in AWR Surgery, International Australian Society Meet, Melbourne, Australia, 7th November 2020

Moderator, panelist and chairperson, Revisional Bariatric Surgery, International MGB OAGB Club, London, 5th December 2020

Lecture, Giant Hiatus Hernia, Kolkata Gastro Society Annual Meeting, Kolkata, 12th December 2020

Talk, Robotic Surgery, American College of Surgeons Meet, New Delhi, 13th December 2020

Talk, Robotic Surgery, Bangladesh Surgeons Society, Dhaka, 20th December 2020

### Presentations

Presentation, Robotic HPB Surgery, International

|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

Beijing meeting Robotic Surgery, Beijing, 4th December 2020

Presentation, Robotic Surgery Covid times, Indo Russian Covid Meet, Moscow, 12th December 2020

#### Professional Societies' Positions

President, Obesity and Metabolic Surgery Society of India (OSSI), since 2018

President, International MGB OAGB Club for Bariatric Surgery, since 2019

Director North Zone, Abdominal Wall Repair Surgeons Community (AWRSC), since 2020

#### Examinership

Fellowship in Metabolic & Bariatric Surgery, FMBS Exam, New Delhi, 2020

#### 114. Dr Ashish Malik

General Anaesthesia, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Governing council member, Anaesthesia and critical care in LTSI, since 2018

#### 115. Dr Ashok Kumar Sarin

Nephrology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Fellow, Indian Society of Organ Transplant, since 2019

#### Awards

Life Time Achievement Award, Indian Society of

Nephrology, SGPGI Lucknow, 28th February 2020

#### 116. Dr Athar Parvez Ansari

Respiratory Medicine, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Faculty, Indian Society of Critical Care Medicine (ISCCM), since 2016

#### 117. Dr Avdhesh Bansal

Pulmonology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Advisor, Respiratory National Medical Board, since 2019

Member, Indian society of critical care medicine, India since 2005

#### 118. Dr Bhanu Pant

Neuro-Physiology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Life Member, Neurological Society of India, since 1988

Life Member, Neurological Association of India, since 1988

#### 119. Dr Chetan Mehra

General Anaesthesia, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Member, Indian Association of Ped Anaesthesia, since 2013

Member, Indian Society of Study of Pain, since 2011

Member, ISA, since 2003

Member, International Association for Study of Pain, since 2006

Member, European Society of Regional Anaesthesia, since 2016

Member, Association of Regional Anaesthesia, since 2012

## 120. Dr D K Bhargava

Gastroenterology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

President, Indian Society of Gastroenterology, since 1992

### Awards

Dr S K Sama Memorial Award, for the development of Gastroenterology in India, Delhi Liver Foundation (Ganga Ram Hospital), New Delhi, 2020

## 121. Dr Deepak Govil

Gastro-Surgery, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Scientific Committee Member, IASG, since 2019

Executive Council Member, ACRSI, since 2019

## 122. Dr Dinesh Mohan Chaudhari

Neurology, Indraprastha Apollo Hospitals, Delhi

### Publications

Dinesh Mohan Chaudhari, Pushpendra Nath Renjen, Anjali Mishra, Immia Bukhari, COVID-19 and stroke – Updated review, Apollo Medicine, Volume 17: Issue 5: Page 2-5, 7th August 2020

Dinesh Mohan Chaudhari, Pushpendra Nath

Renjen, Anjali Mishra, The dilemma of thymectomy in myasthenia gravis, Volume 17: Issue 2: Page 90-93, 18th June 2020

Dinesh Chaudhari, Pushpendra N Renjen, Rahul Saini, Rajeev Kumar Rajput The association of left atrial enlargement in different subtypes of ischemic stroke based on toast classification, International Journal of Scientific Research, Volume 9: Issue 5: Page 1-4, May 2020

Dinesh Chaudhari, Pushpendra N Renjen, Anjali Mishra, Shivangi Garg, Stiff person syndrome: a clinical review and recent treatment updates, International Journal of Scientific Research, Volume 9: Issue 3: Page 26-28, March 2020

D Chaudhari, C Gupta, PN Renjen, A Mishra, Diagnosis, pathophysiology and treatment of normal pressure hydrocephalus: A review of current perspectives, Apollo Medicine, Volume 17: Issue 1: Page 10-15, 2020

Dinesh Chaudhari, Abhas Kumar, Pushpendra N Renjen, Malvika BG, Anjali Mishra, Masquerading tinnitus – A dural AV Fistula, International Journal of Scientific Research, Volume 9: Issue 1: Page 1-2, January 2020

Dinesh Chaudhari, Pushpendra N Renjen, Anjali Mishra, Are there gender differences in management and prognosis after stroke, International Journal of Scientific Research, Volume 9: Issue 1: Page 1, January 2020

### Lectures

Organising Secretary, World Stroke Day Symposium, New Delhi, 2020

### Presentations

Paper presentation, A study of vascular imaging of intracranial vessels in ischemic stroke patients, European Stroke Organization– World Stroke Organization (ESO-WSO), Stroke Conference, Vienna, Austria, 7th -9th November 2020



|      |                |                     |                 |                     |     |           |             |          |                           |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

Paper presentation, A study of atrial cardiopathy in various sub types of acute ischemic stroke using ptfv1 (ECG) and 2d echo criteria, European Stroke Organization- World Stroke Organization (ESO-WSO), Stroke Conference, Vienna, Austria, 7th -9th November 2020

Paper presentation, Bilateral thalamic acute infarct- a rare stroke mimmic, European Stroke Organization- World Stroke Organization (ESO-WSO), Stroke Conference, Vienna, Austria, 7th -9th November 2020

#### Professional Societies' Positions

Member, American Association of Neurology (AAN)

Lifetime Member, Delhi Neurological Association

Member, Indian Academy of Neurology (IAN)

Member, World Stroke Organization (WSO)

Member, European Stroke Organization (ESOC)

Lifetime Member, Innovative Physicians Forum of India (IPF)

Life Member, Delhi Medical Council

Member, British HIV Association (BHIVA)

Member, Asia Pacific Vascular Intervention Society (APVIC)

#### Awards

Second prize, presentation- Tumefactive ADEM, Delhi Neurological Association, DNACON, New Delhi, 1st - 2nd February 2020

First Prize, Paper presentation, Stroke and Left Atrial Pathologies, IPF Medicon, 2020

#### 123. Dr Gaurav Kharya

Bone Marrow Transplant, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Treasurer, PHO of Chapter 5 of IAP, since 2019

National Co-ordinator, CATCH Pediatric cancer and Inborn Errors of Immunity, since 2020

#### 124. Dr. Hitendra K Garg

Gastroenterology, Indraprastha Apollo Hospitals, Delhi

#### Editorial Boards Membership

Editor, Austin Hepatology, since 2017

#### 125. Dr I P S Kochar

Pediatric Endocrinology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Secretary, Growth Hormone Research Society

Member, American Endocrine society

Member, European Endocrine Society

Member, Asian pacific endocrine society

Member, ISPAE

Member, Endocrine society of India

Member, Indian bone mineral and research society

Member, IAP Delhi

President, IAP Noida

#### 126. Dr K J Choudhury

Neuro-Anaesthesia, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Advisor, Neuro Critical Care Society, Chennai, since 30th January 2020

### 127. Dr K K Kapur

Cardiology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Founder Member, Indian Academy of Echo FIAE, since 1994

Fellow, International Medical Science Academy, since 2007

Fellow, Indian College of Cardiology, since 2015

Fellow, International Society of Cardiac Ultrasound, since 2016

Member, American Society of Echocardiography, since 2014

### 128. Dr Kailash N Singh

Nephrology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

President, Delhi Nephrology Society, since 2019

### 129. Dr Lata Bhat

Pediatrics and Neonatology, Indraprastha Apollo Hospitals, Delhi

#### Editorial Boards Membership

Chief Editor, Journal of Neuro Developmental Chapter of IAP known as DPT (Developmental Paediatrics Today), since 2020

#### Professional Societies' Positions

State Co-ordinator, Neurodevelopmental Chapter of IAP

### 130. Dr Lalita Badhwar

Obstetrics and Gynaecology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Executive Committee Member, Delhi Chapter of Indian Association of Gynecological Endoscopists,

since 2020

### 131. Dr M C Garg

Cardiology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Fellow, Indian College of Cardiology, since 2018

Life Member, Association of Physician of India, since 1972

Life Member, IMA, since 1994

### 132. Dr Manish Singhal

Medical Oncology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Joint Secretary, NCR Oncology Forum, since 2016

### 133. Dr Meera Kharbanda

Anesthesiology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Member, Executive Council in ISA Delhi Chapter, since 2013

### 134. Dr Muralidhar

Anesthesia, Indraprastha Apollo Hospitals, Delhi

#### Chapters contributed to text books

Dr Muralidhar V, Anaesthetic Considerations, Bariatric Surgery, Editor- Atul Peters, Yogesh Gautam, Shalab Agarwal, Beena Arora, 1st edition, Salubris Medical Publishers, Page 175-189, 2020

#### Publications

Muralidhar V, Atish Pal, Intraoperative Anaphylaxis – High Lighting the dilemmas in living donor transplantation, Indian Journal of Anaesthesia,

Volume 64: Issue 1: Page 77, 2020

### 135. Dr N N Khanna

Interventional Cardiology and Vascular Interventions, Indraprastha Apollo Hospitals, Delhi

#### Publications

Narendra Nath Khanna, Peter Dodo Yakubu, Emmanuel Auchu Ede, Suparna Rao, Abdulhameed Bala Abubakar, Aortic arch aneurysm presenting as orotary's syndrome, Archives of Medicine and Surgery, Volume 4: Issue 2: Page 49-52, 20th January 2020

Narendra N Khanna, Ankush Jamthikar, Deep Gupta, Elisa Cuadrado-Godia, Anudeep Puvvula, Luca Saba, Klaudija Viskovic, Sophie Mavrogeni, Monika Turk, John R Laird, Gyan Pareek, Martin Miner, Petros P Sfrikakis, Athanasios Protogerou, George D Kitas, Chithra Shankar, Andrew Nicolaides, Vijay Viswanathan, Aditya Sharma, Jasjit S Suri, Ultrasound-based stroke/cardiovascular risk stratification using Framingham Risk Score and ASCVD Risk Score based on "Integrated Vascular Age" instead of "Chronological Age": a multi-ethnic study of Asian Indian, Caucasian, and Japanese cohorts, Cardiovasc Diagn Ther, Volume 10: Issue 4: Page 939-954, August 2020

Narendra N Khanna, Jasjit S Suri, Anudeep Puvvula, Mainak Biswas, Misha Majhail, Luca Saba, Gavino Faa, Inder M Singh, Ronald Oberleitner, Monika Turk, Paramjit S Chadha, Amer M Johri, J Miguel Sanches, Klaudija Viskovic, Sophie Mavrogeni, John R Laird, Gyan Pareek, Martin Miner, David W Sobel, Antonella Balestrieri, Petros P Sfrikakis, George Tsoulfas, Athanasios Protogerou, Durga Prasanna Misra, Vikas Agarwal, George D Kitas, Puneet Ahluwalia, Raghu Kolluri, Jagjit Teji, Mustafa Al Maini, Ann Agbakoba, Surinder K Dhanjil, Meyypan Sockalingam, Ajit Saxena, Andrew Nicolaides, Aditya Sharma, Vijay Rathore, Janet NA Ajuluchukwu, Mostafa Fatemi, Azra Alizad, Vijay Viswanathan, Pudukode R Krishnan, Subbaram

Naidual, COVID-19 pathways for brain and heart injury in comorbidity patients: A role of medical imaging and artificial intelligence-based COVID severity classification: A review, Comput Biol Med, Volume 124: Page 103960, September 2020

Narendra N Khanna, Ankush D Jamthikar, Deep Gupta, Anudeep Puvvula, Amer M Johri, Luca Saba, Sophie Mavrogeni, John R Laird, Gyan Pareek, Martin Miner, Petros P Sfrikakis, Athanasios Protogerou, George D Kitas, Raghu Kolluri, Aditya M Sharma, Vijay Viswanathan, Vijay S Rathore, Jasjit S Suri, Cardiovascular risk assessment in patients with rheumatoid arthritis using carotid ultrasound B-mode imaging, Rheumatol Int, Volume 40: Issue 12: Page 1921-1939, December 2020

Narendra N Khanna, Ankush Jamthikar, Deepa Gupta, Luca Saba, Jasjit S Suri, Cardiovascular/Stroke risk predictive calculators: A comparison between statistical and machine learning models, Cardiovascular Diagnosis and Therapy, Volume 10: Issue 4: Page 919-939, 4th August 2020

Narendra N Khanna, Sanagala S Skandha, Suneet K Gupta, Luca Saba, Vijaya K Koppula, Amer M Johri, Sophie Mavrogeni, John R Laird, Gyan Pareek, Martin Miner, Petros P Sfrikakis, Athanasios Protogerou, Durga P Misra, Vikas Agarwal, Aditya M Sharma, Vijay Viswanathan, Vijay S Rathore, Monika Turk, Raghu Kolluri, Klaudija Viskovic, Elisa Cuadrado-Godia, George D Kitas, Andrew Nicolaides, Jasjit S Suri, Title 3D optimized classification and characterization: artificial intelligence paradigm for cardiovascular/ stroke risk stratification using carotid ultrasound based delineated plaque, Computers in Biology and Medicine, Volume 125: Page 103958, October 2020

Narendra N Khanna, Gopal S Tandel, Jasjit S Suri, Multiclass magnetic resonance imaging brain tumor classification using artificial intelligence paradigm, Computers in Biology and Medicine, Volume 112: Page 1-29, July 2020

Narendra N Khanna, Emmanuel Auchi Edefe, Suparna Rao, Practique Clinique, Pattern of Carotid Plaques in patients with Transient Ischemic Attack or Ischemic Stroke, Investigation Tridha Scholars, Volume 3: Issue 2: Page 60-67, 14th June 2020

N N Khanna, Raman Puri, Rashmi Nanda, Vimal Mehta, P. Barton Duell, Proposed low-density lipoprotein cholesterol goals for secondary prevention and familial hypercholesterolemia in India with focus on PCSK9 inhibitor monoclonal antibodies: Expert consensus statement from Lipid Association of India, Journal of Clinical Lipidology, Volume 14: Issue 2: Page e1-e13, March-April 2020

N N Khanna, S Harikrishnan, P P Mohanan, V K Chopra, Roy Ambuj, G Sanjay, Manish Bansal, R N Chakraborty, Sharad Chandra, S S Chattarjee, H K Chopra, Cibu Mathew, P K Deb, A Goyal, K C Goswami, R Gupta, S Guha, V Gupta, P K Hasija, Harsh Wardhan, A Jabir, P B Jayagopal, D Kahali, V K Katyal, P G Kerkar, B Majumder, M Mandal, C B Meena, N Naik, V K Narain, L A Pathak, S Ray, D Roy, S N Routray, D Sarma, S Shanmugasundaram, B P Singh, S K Tyagi, K Venugopal, G S Wander, Rakesh Yadav, M K Das, Cardiologocial society of India position statement on COVID-19 and heart failure, Indian Heart J, Volume 72: Issue 2: Page 75-81, March-April 2020

N N Khanna, Rakesh Gupta, Mrinal Kanti Das, P P Mohanan, Pradip K Deb, S K Parashar, H K Chopra, Sameer Shrivastava, Santanu Guha, Kewal C Goswami, Rakesh Yadav, R Alagesan, V Amuthan, M Bansal, R N Chakraborty, N Chakraborti, S Chandra, A Chatterjee, D Chatterjee, S S Chatterjee, A L Dutta, A De, A Garg, V K Garg, A Goyal, N K Goyal, S C Govind, V K Gupta, Pradeep K Hasija, A Jabir, P Jain, V Jain, P B Jayagopal, R R Kasliwal, V K Katyal, P G Kerkar, Amal Kumar Khan, M Mandal, B Majumder, S S Mishra, C B Meena, N Naik, V S Narain, A K Pancholia, L A Pathak, C K Ponde, K Raghu, S Ray, D Roy, D Sarma, S

Shanmugasundaram, B P Singh, S Tyagi, G Vijayaraghavan, G S Wander, Harsh Wardhan, N C Nandabb, Cardiologocial society of India document on safety measure during echo evaluation of cardiovascular disease in the time of COVID-19, Indian Heart J, Volume 72: Issue 3: Page 145-150, May-June 2020

### Lectures

Organised, Asian Cardiovascular / Endovascular Conference and Asia Pacific Vascular Intervention Course, 26th – 30th June 2020

### Professional Societies' Positions

Director, Genome Foundation, since 15th July 2020

### 136. Dr N Subramanian

Urology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Member, Urological society of India, since year 1996

Member, Urological society of India (North Zone), since year 1996

Member, Indian Menopause society, since year 1996

Member, Indian Medical Association, since year 1997

Member, Delhi Medical Association, since year 1997

Fellow, International Medical Sciences Academy, since 2003

Fellow, Royal College of Physicians and Surgeons of Glasgow since 1990

Fellow, Royal College of Surgeons of Edinburgh, since 2008

|      |                |                     |                 |                     |     |           |             |          |                           |
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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

### 137. Dr Neerav Goyal

Transplant and Surgical Gastroenterology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Secretary, Liver Transplant Society of India, since 2018

### 138. Dr Nidhi Gupta

Neuro Anaesthesia, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Founder Member, SNCC, since 2019

Life Member, ISNACC, since 2011

### 139. Dr Nitin Ghonge

Radiology, Indraprastha Apollo Hospitals, Delhi

#### Awards

Apollo Clinical Award, Young Researcher for their exemplary services in research, 4th February 2020

### 140. Dr O P Sharma

Geriatric Medicine, Indraprastha Apollo Hospitals, Delhi

#### Book Published

Editor – Dr O P Sharma, Management Issues in Geriatric Care, 1st Edition, Rishikul Publication, January 2020

#### Publications

Dr Sharma OP, Das KR, Healthy Ageing, Journal of the Indian Medical Association, Volume 118: Issue 10: Page 20-24, October 2020

Dr Sharma OP, Saran Mohit, Insulin Use in the Elderly, Injectable Therapies for Diabetes Management, Indian College of Physicians Monogram, Volume 15:, Page 7-11, January 2020

Dr Sharma OP, Elderly and Infections - Can we do something?, M3 India Newsdesk, June 2020

Dr Sharma OP, Covid-19 in the Elderly, M3 India Newsdesk, March 2020

Dr Sharma OP, Recommending adult vaccines: Learn from the expert, M3 India Newsdesk, May 2020

#### Lectures

Lecture, Geriatric planning in India- Need vis-a-vis resources, ERAJCON, 26th -27th December 2020

Lecture, Respiratory Vaccines Guidelines in Geriatrics, 75th NATCON, 20th December 2020

Lecture, Role of Vitamin D in Metabolic Disorders, 2020

Lecture, Technological Advancements in Diabetes for Achieving Control – Case Based Approach, Doctor webinar BI, New Delhi, 3rd December 2020

Lecture, Respiratory Vaccines in Elderly, Doctors webinar, Pfizer, New Delhi, October 2020

Lecture, Vildagliptin- The Pioneer Gliptin Re-Inventing Diabetes Management, Doctors webinar, Torrent, New Delhi, September 2020

Lecture, Introduction and Theories of Ageing, Certificate course in Geriatric Medicine- GSI, New Delhi, 6th October 2020

Lecture, Basal Insulin Titration, Doctors webinar, Sanofi, New Delhi, November 2020

Lecture, Importance of Medication Adherence, Doctors webinar mHealth, New Delhi, October 2020

Lecture, Vaccination in Older Adults - Its status in India, GSI seminar, New Delhi, October 2020

Lecture, Elderly T2DM patient with Renal impairment, Doctors Webinar, Novartis, New Delhi, July 2020

Lecture, Emerging Scope of Telemedicine in Diabetes Care, GSI seminar, New Delhi, August 2020

Lecture, ADHF evidence with Vymada in de novo HFREF patient, Doctors webinar, Navartis, New Delhi, June 2020

Lecture, Heart Failure and Diabetes A deadly duo, Doctors Webinar, Novartis, New Delhi, May 2020

Lecture, Initiation and titration with insulin in the present scenario: A Patient Centric Approach, Doctors Webinar, Sanofi, New Delhi, May 2020

Lecture, Covid-19 and Elderly, Management issue in elderly meet, GSI, New Delhi, April 2020

Lecture, Metabolic and Safety Outcomes with SGLT2i/DPP-4i: Guiding Rationale and Place in Therapy, Doctors webinar, BI, New Delhi, March 2020

Lecture, Prescribing in Elderly Decrypting the Principles of Prudent Therapy, GSI webinar, New Delhi, November 2020

Lecture, Antibiotic Use in OP and IP Patients of Diabetes Mellitus, APICON, Agra, January 2020

#### **Editorial Boards Membership**

Chief Editor, Certificate Course on Geriatric Medicine, since 2020

Chief Editor, Indian Journal of Geriatric Care, since 2012

Chief Editor, Management Issues in Geriatric Care, since 2020

#### **Professional Societies' Positions**

Gen. Secretary, Geriatric Society of India, since 1989

Patron, Innovative Physician Forum, since 2018

#### **141. Dr P K Ghosh**

Cardiology, Indraprastha Apollo Hospitals, Delhi

#### **Professional Societies' Positions**

Fellow, Indian College of Cardiology, since 2003

Fellow, IMA, since 1994

Fellow, Indian Academy of Echocardiography, since 2010

#### **142. Dr P N Renjen**

Neurology, Indraprastha Apollo Hospitals, Delhi

#### **Publications**

Pushpendra Nath Renjen, Dinesh Mohan Chaudhari, Anjali Mishra, Immia Bukhari, COVID-19 and stroke – Updated review, Apollo Medicine, Volume 17: Issue 5: Page 2-5, 7th August 2020

Pushpendra Nath Renjen, Dinesh Mohan Chaudhari, Anjali Mishra, The dilemma of thymectomy in myasthenia gravis, Apollo Medicine, Volume 17: Issue 2: Page 90-93, 2020

Pushpendra N Renjen, Rahul Saini, Rajeev Kumar Rajput Dinesh Chaudhari, The association of left atrial enlargement in different subtypes of ischemic stroke based on toast classification, International Journal of Scientific Research, Volume 9: Issue 5: Page 1-4, May 2020

Pushpendra N Renjen, Dinesh Chaudhari, Anjali Mishra, Shivangi Garg, Stiff person syndrome: a clinical review and recent treatment updates, International Journal of Scientific Research, Volume 9: Issue 3: Page 26-28, March 2020



PN Renjen, C Gupta, D Chaudhari, A Mishra - Diagnosis, pathophysiology, and treatment of normal pressure hydrocephalus: A review of current perspectives, Apollo Medicine, Volume 17: Issue 1: Page 10-15, 2020

Pushpendra N Renjen, Abhas Kumar, Dinesh Chaudhari, Malvika BG, Anjali Mishra, Masquerading tinnitus – A dural AV Fistula, International Journal of Scientific Research, Volume 9: Issue 1: Page 1-2, January 2020

Pushpendra N Renjen, Dinesh Chaudhari, Anjali Mishra, Are there gender differences in management and prognosis after stroke, International Journal of Scientific Research, Volume 9: Issue 1: Page 1, January 2020

#### Lectures

Keynote Address, Annual Conference of International Medical Sciences Academy, PGI Rohtak, 12th December 2020

Speaker, Stroke in women, Annual CME, IMA South Delhi, 13th March 2020

Guest Speaker, Health and Wellness, New Year celebration of the Indo Dutch Chamber of Business and Sciences, Delhi, 9th January 2020

Speaker, Evolution of thrombolytic therapy in acute Ischemic Stroke management, Annual Conference of Global Association of Physicians of Indian Origin (GAPIO), Nagpur, 4th -5th January 2020

#### Professional Societies' Positions

President, Delhi Neurological Society, since 2016

Fellow, Royal College of Physicians, London, 19th September 2020

Member, Editorial Board, Cerebrovascular Disease, since 2019

#### Awards

Lifetime Achievement Award, Delhi Neurological

Association (DNA) for his contribution to Neurology, DNACON, New Delhi, 1st - 2nd February

#### 143. Dr Pradeep Jain

Cardiology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Fellow, Indian College of Cardiology, since 2001

Fellow, Cardiological Society of India, since 2003

#### 144. Dr Pratyush Gupta

General Anaesthesia, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Member, ISA, since 2004

#### 145. Dr R K Seth

Plastic Surgery, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Council Member, Asian Pacific Cranial Facial Association, since 1999

#### 146. Dr Rajeev Kumar Rajput

Cardiology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Governing Council Member, Indian College of Cardiology, since 2016

Secretary, Delhi NCR chapter of Indian College of Cardiology, since 2018

### 147. Dr Rajesh K Chawla

Pulmonology, Indraprastha Apollo Hospitals, Delhi

#### Book Published

Editor - Rajesh Chawla, ICU Protocols - A Step-wise Approach, Volume II, Springer Link, 1st April 2020

#### Publications

Rajesh Chawla, Prashant Nasa, Ventilatory Management of COVID-19-related ARDS: Stick to Basics and Infection Control, Indian Journal of Critical Care Medicine, Vol. 24: Issue 8: Page 609-610, August 2020

#### Professional Societies' Positions

National Co-ordinator, Comprehensive Critical Care Course, Indian Society of Critical Care medicine, since 2014

National Co-ordinator, Comprehensive Pulmonary Medicine Course of National College of Chest Physician, since 2016

### 148. Dr Rajesh Taneja

Urology, Andrology and Robotic Surgery, Indraprastha Apollo Hospitals, Delhi

#### Publications

Rajesh Taneja, Mohammad Sajjad Rahnamai, Aida Javan, Navita Vyas, Sandor Lovasz, Neelanjana Singh, Mauro Cervigni, Sanjay Pandey, Jean Jacques Wyndaele, Bladder Pain Syndrome and Interstitial cystitis beyond horizon: reports from the global interstitial cystitis/bladder pain society (GIBS) meeting 2019 Mumbai-India, Anesth Pain Med, Volume 10: Issue 3: Page e101848, 12th May 2020

#### Editorial Boards Membership

Member of review panel Indian Journal of Urology,

since 2005

Reviewer for Indian Journal of Medical Research, since 2012

#### Professional Societies' Positions

Chairman, Education Committee of European Society for Study Interstitial Cystitis, since 2018

Treasurer, Andrology India, since 2005

Founder Fellow, Geriatric Society of India, since 1998

Executive Council Member, Delhi Tumor Board, since 2010

#### Awards

Trainer of Trainees Award, Board of Education, Urology Society of India, Annual Conference, USICON, Kochi, 24th January 2020

### 149. Dr Rajendra Prasad

Neuro and Spine Surgery, Indraprastha Apollo Hospitals, Delhi

#### Publications

Rajendra Prasad, Anandita Lidhoo, Tarun Lala, Prateek Sharma, Anjali Lodwal, Manish Jaiswal, Shagufta Nayar, Charu Khatri, Surbhi Vyas, Umaid Singh Deora, Shikha Vaswani, COVID-19 pandemic-related lockdown: Effects on persons with disabilities in India, Apollo Medicine, Volume 17: Issue 5: Page 44-49, 19th August 2020

#### Lectures

Panelist, First Responder Training for Paramedics and Doctors, Seminar- 31st National Road Safety Week, International Road Federation, Ministry of Road Transport and Highways and World Health Organizations, FICCI Auditorium, New Delhi, 15th January 2020

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| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
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Panelist, Indian Trauma Care Facilities, New Technologies Playing a Pivotal Role in Building Safe Mobility- Seminar, Society of Indian Automobile Manufacturers (SLAM), New Delhi, 14th January 2020

### **Presentations**

Presentation, Assistive Technology (AT) in Neuro-rehab: How IHIF/ KARA will help in setting up AT services in Bihar, Symposium- Dr Shivajee Kumar, State Commissioner Disabilities, Government of Bihar, Social Welfare Department, Patna, Bihar, 29th -30th January 2020

Presentation, Analysis of Sacro-iliac Joint Pain, Symposium- Delhi Spine Society, New Delhi, 8th February 2020

### **Editorial Boards Membership**

Ad Hoc Reviewer, British Journal of Neurosurgery, since 2016

Reviewer, Indian Spine Journal, since 2016

Reviewer, Open Journal of Modern Neurosurgery (OJMN), since 2016

### **Awards**

Prince Michael International Road Safety Awards, Ride with Safety campaign, for Children on behalf of Indian Head Injury Foundation (IHIF), 26th November 2020

## **150. Dr Rajesh Watts**

Plastic Surgery, Indraprastha Apollo Hospitals, Delhi

### **Professional Societies' Positions**

Treasurer, Rhinoplasty Society of India, since 2020

Member, Association of Plastic Surgeons of India, since 2003

Member, Indian Association of Aesthetic Plastic Surgeons, since 2007

## **151. Dr Rajiv Mehrotra**

Cardiology, Indraprastha Apollo Hospitals, Delhi

### **Professional Societies' Positions**

Life Member, Cardiological Society of India

Life member, Cardiological Society of India, Delhi Chapter

Life Member, Association of Physicians of India

Life Member, U.P. Chapter of Association of Physicians of India

Fellow, College of Chest Physicians, India

Life Member, Indian Medical Association

Member, Indian College of Interventional Cardiology

Life Member, International Society for Heart Research

Member, European Association of Percutaneous Cardiovascular Interventions

## **152. Dr Raju Vaishya**

Orthopaedics and Joint Replacement, Indraprastha Apollo Hospitals, Delhi

### **Book Published**

Editor- Bone and Joints: Prevention and Treatment of Orthopedic Disorders, Sachiprakashan, 1st January 2020

### **Chapters contributed to text books**

Dr Raju Vaishya, ACL Injuries of the Knee Joint, Orthopedics of the Upper and Lower Limb, Chapter 17, Editors- Iyer, K. Mohan, Khan, Wasim S, Springer, Pages 295-306, July 2020

Dr Raju Vaishya, Clinical Examination of the Knee Joint (Basic and Surface Anatomy), Orthopedics of

the Upper and Lower Limb, Chapter 16, Editors- Iyer, K. Mohan, Khan, Wasim S, Springer, Pages 279-294, July 2020

Dr Raju Vaishya, Disc Degeneration, Management issues in Geriatric Care, Editor- Dr O P Sharma, Geriatric Society of India Publications, 1st edition, Page 55-62, July 2020

## Publications

Vaishya R, Journal of Clinical Orthopaedics and Trauma- a shining star from India, J Clin Orthop Trauma, Volume 12: Issue 1: Page 4-7, 29th December 2020

Vaishya R, A fight with SARS-Cov-2 infection (COVID-19): Experience of an Orthopaedic Surgeon, Ind J Med Sc, Volume 72: Issue 3: Page 129-131, 2020

Vaishya R, Iyengar KP, Jain VK, Medical Doctors on Strike in India - a Moral and National conundrum, Post Grad Med J, doi: 10.1136/postgradmedj-2020-139325, 24th November 2020

Vaishya R, Iyengar KP, Jain VK, Is the English language a barrier to the Non-English-speaking authors in academic publishing?, Post Grad Med J, doi:10.1136/postgradmedj-2020-139243, 6th November 2020

Vaishya R, Soni M, Gopalkrishnan R, Panduranga P, D dimer level is a useful predictor for mortality in patients with COVID 19: Analysis of 483 cases, Diabetes and Metabolic Syndrome: Clinical Research and Reviews, Volume 14: Issue 6: Page 2245-2249, November -December 2020

Vaishya R, Chakraborty J, Banerjee I, Ghosh S, Bioengineered in vitro tissue models to study SARS-CoV-2 pathogenesis and therapeutic validation, ACS Biomaterials Science and Engineering, Volume 6: Issue 12: Page 6540-6555, 14th December 2020

Vaishya R, Rab S, Javaid M, Haleem A, An update on the global vaccine development for novel Corona virus, Diabetes and Metabolic Syndrome: Clinical Research Reviews, Volume 14: Issue 6: Page 2053-2055, November- December 2020

Vaishya R, Srinvas KBS, Paleti S, Khanduja V, Making sense of infodemic: a bibliometric analysis of publications on COVID-19 in trauma and orthopaedics, Indian J Med Sc, Volume 72: Issue 3: Page 155-161, 2020

Vaishya R, Jain VK, Iyengar KP, Upadhyaya GK, Nune A, Challenges and Solutions for Knee Osteoarthritis patients during COVID-19 pandemic, Journal of Clinical and Diagnostic Research, Volume 14: Issue 11: Page RE01-RE04, 2020

Vaishya R, Vaish A, Ansari AA, Challenges in Total Hip Replacement after McMurray's osteotomy: A report of three cases and review of literature, Clinics in Orthop Surg, Volume 12: Issue 4: Page 442-447, December 2020

Vaishya R, Vaish A, Bhasin VB, Etiopathology and management of stiff knees: A current concept review, Indian Journal of Orthopaedics, Volume 55: Page 276-284, 20th October 2020

Vaishya R, Singh RP, Javaid M, Haleem A, Bahl S, Significance of Health Information Technology (HIT) for Orthopaedic in context to COVID-19 pandemic: Potential Roles and Challenges, J Industrial Integration Management, Volume 5: Issue 4: Page 427-440, 2020

Vaishya R, Iyengar KP, Jain R, Samy DA, Jain VK, Suraliwala K, Exploring the role and mechanism of COVID-19 apps in fighting the current pandemic, Indian Journal of Medical Sciences, Page 1-6, October 2020

Vaishya R, Javaid M, Haleem A, Vaish A, Iyengar KP, Robotics applications in COVID-19: A review, J Industrial Integration Management, Volume 5: Issue

4: Page 441-51, 2020

Vaishya R, Bahl S, Singh RP, Javaid M, Suman R, Telemedicine technologies for confronting COVID-19 pandemic: A Review, J Industrial Integration Management, Volume 5: Issue 4: Page 547-561, 2020

Vaishya R, Srinivas KBS, Wisely Choosing the numbers during the pandemic, diabetes and metabolic syndrome: Clinical Research & Reviews, Volume 14: Issue 6: Page 1895, November-December 2020

Vaishya R, Kumar S, Vaish A, Babu YSS, How good are the guidelines for the non-operative management of Knee Osteoarthritis?, Arch Bone Joint Surg, DOI: 10.22038/ABJS.2020.51112.2535, September 2020

Vaishya R, Iyengar KP, Ish P, Upadhyaya GK, Malhotra N Jain VK, COVID-19 and Mortality in Doctors, Diabetes and Metabolic Syndrome: Clinical Research and Reviews, Volume 14: Issue 6: Page 1743-1746, November – December 2020

Vaishya R, Babu SS, Vaish A, Windswept deformities of the knee are challenging to manage, Knee Surg Rel Res, Volume 32: Issue 46: Page 1-8, 2020

Vaishya R, Rab S, Javaid M, Face masks are new normal after COVID-19 pandemic, Diabetes and Metabolic Syndrome: Clinical Research and Reviews, Volume 14: Issue 6: Page 1617-1619, November – December 2020

Vaishya R, Iyengar KP, Jain VK, Virtual post-graduate orthopaedic practical examination- A pilot model, Post Grad Med J, postgradmedj-2020-138726. doi: 10.1136/postgradmedj-2020-138726, 3rd October 2020

Vaishya R, Siddalingeshwara GI, Vaish A, Calcific tendonitis of the Elbow in an adult – A case report

and review of the literature, J Orthop Case Reports, Volume 10: Issue 5: Page 57-60, August 2020

Vaishya R, Jain VK, Iyengar KP, Current situation with doctors and healthcare workers during COVID-19 pandemic in India, Post Grad Med J, doi: 10.1136/postgradmedj-2020-138496, August 2020

Vaishya R, Vaishya R, Garg V, What new in the spine surgery?, J Clin Orthop Trauma, Volume 11: Issue 5: Page 729, 2020

Vaishya R. Medical Education and Training during COVID-19 had a severe negative impact, Post Grad Med J, <https://pmj.bmj.com/content/early/2020/07/03/postgradmedj-2020-137763.responses>, 10th July 2020

Vaishya R, Jain VK, Iyengar KP, Samy DA, Impact of COVID-19 on Tuberculosis in the era of COVID-19 in India, Diabetes & Metabolic Syndrome: Clinical Research & Reviews, Volume 14: Page 1439-1443. doi:10.1016/j.dsx.2020.07.034, 2020

Vaishya R, Vaish A, Haleem A. What is there in the scoring and rating of journals? J Clin Orthop Trauma, Volume 11: Supplement 4: Pages S684-S685, July 2020

Vaishya R, Women Orthopedic Surgeons in India are sparse in numbers, JAMA, Published <https://jamanetwork.com/journals/jamasurgery/article-abstract/2768006>, 13th July 2020

Vaishya R, Vaish A, Jain VK, Iyengar KP, Letter to Editor: COVID-19: Current Knowledge and Best Practices for Orthopaedic Surgeons, Ind J Orthop, Volume 54: Issue 6: Page 917-18, November 2020

Vaishya R, Jain VK, Iyengar KP, Vaish A, Differential mortality in COVID-19 patients from India and Western countries. Diabetes & Metabolic Syndrome: Clinical Research & Reviews, Volume

14: Issue 5, doi: 10.1016/j.dsx.2020.06.067, July 2020

Vaishya R, Haleem A, Javaid M, Khan IH, Big data applications in Orthopaedics, J Orthop, Volume 8: Issue 1: Page 46-47, 2020

Vaishya R, Jain VK, Patralekh MK, Lal H, Fracture management during COVID-19 pandemic: A systematic review, J Clin Orthop Trauma, Volume 11: Supplement 4: Pages S431-S441, July 2020

Vaishya R, Iyengar KP, Moubark A, Jain VK, Ahmed A, Learning opportunities from COVID-19 and future effects on health care system, Diabetes and Metabolic syndrome: Clinical Research and Reviews, Volume 14: Issue 5: Page 943-946, September- October 2020

Vaishya R, Vaish A, Trends in publications during COVID-19 pandemic, Injury, Volume 51: Issue 8: Page 1941, August 2020

Vaishya R, Bagaria V, Resuming Arthroplasty amidst the COVID-19 pandemic: A well aligned and a balanced approach, J Clin Orthop Trauma, Volume 11: Issue Suppl 4: Page S423-425, July 2020

Vaishya R, Bahl S, Jaly I, Iyengar KP, Redefining Diabetic foot disease management service during COVID-19 pandemic, Diabetes and Metabolic syndrome: Clinical Research and Reviews, Volume 14: Issue 5: Page 833-838, September- October 2020

Vaishya R, Haleem A, Vaish A, Javaid M, Letter to Editor on Digital Orthopaedics. A Glimpse into the Future in The Midst of a Pandemic, J Arthroplasty, Volume 35: Issue 10: Page 3055-3056, 1st October 2020

Vaishya R, Jain VK, Iyengar KP, Pitfalls in Telemedicine consultations in the era of COVID-19 and how to avoid them, Diabetes and Metabolic syndrome: Clinical Research and Reviews, Volume 14: Issue 5: Pages 797-799, September-October 2020

Vaishya R, Kambhampati SBS, Vaish A, Infodemic of Covid-19 pandemic, JBJS (Am), file:///C:/Users/drraju\_v/Downloads/jbjs.20.00610.e01%20(1), 3rd June 2020

Vaishya R, Srinivas K, Publication trends of PCL in the last 40 years on Pubmed, J Clin Orthop Trauma, Volume 11: Issue Suppl 3: Page S354-S361, May 2020

Vaishya R, Upadhyaya GK, Iyengar KP, Jain VK, Challenges and strategies in management of osteoporosis and fragility fracture care during COVID-19 pandemic, J Orthop, Volume 21: Page 287-290, September-October 2020

Vaishya R, Iyengar KP, Jain VK, Vaish A, Resuming elective surgery during the COVID-19 pandemic. J Bone Joint Surg (Am), doi: 10.2106/JBJS.20.00844, 1st June 2020

Vaishya R, Neupane G, Madhusudhan R, Shrestha A, Large diameter head in primary total hip arthroplasty: A systematic review, Ind J Orthop, Volume 54: Issue 6: Page 784-794, 29th May 2020

Vaishya R, Gupta V, A big disparity between the demand and supply of Hand Surgeons in India, J Clin Orthop Trauma, Volume 11: Issue 4: Page 515-516, 2020

Vaishya R, Iyengar KP, Bahl S, Vaish A, Impact of COVID -19 on the supply chain in healthcare. British Journal of Healthcare Managemnet, Volume 26: Issue 6, 2020

Vaishya R, Iyengar KP, Upadhyaya GK, Jain VK, COVID-19 and applications of Smartphone technology in the current pandemic. Diabetes and Metabolic syndrome: Clinical Research and Reviews, Volume 14: Issue 5: Page 733-737, September- October 2020

Vaishya R, Babu SS, Vaish A, Outcomes of total knee arthroplasty in synovial chondromatosis: A comprehensive review, Journal of Arthroscopy and



Joint Surgery, Volume 7: Issue 3: Page 111-115, July–September 2020

Vaishya R, Javaid M, Letter to Editor on: Survival of Diabetic Patients in COVID-19 Period: An Alternative Solution through Telemedicine Approach, Diabetes and Metabolic syndrome: Clinical Research and Reviews, Volume 14: Issue 4: Page 687-688, July – August 2020

Vaishya R, Vaish A, Patel J, Reconstruction of aggressive bone tumors of hand by mini JESS fixator, J Clin Orthop Trauma, Volume 11: Issue 4: Page 686-689, 2020

Vaishya R, Iyengar KP, Vaish A, Revisiting conservative orthopaedic management of fractures during COVID-19 pandemic, J Clinical Orthop Trauma, Volume 11: Issue 4: Page 718-720, 2020

Vaishya R, COVID-19 pandemic and the Olympic Games, J Clin Orthop Trauma, Volume 11: Issue (Suppl) 3: Page S281-S282, May 2020

Vaishya R, Singh RP, Javaid M, Haleem A, Internet of Medical Things (IoMT) for Orthopaedic in COVID-19 pandemic: Roles, Challenges, and Applications, J Clin Orthop Trauma, Volume 11: Issue 4: Page 713-717, 2020

Vaishya R, Resuming Elective Surgery during COVID-19 pandemic, JAMA, Published online. [https://cdn-links.lww.com/permalink/jbjsel/a/jbjsel\\_102\\_14\\_2020\\_05\\_29\\_parvizi\\_2000844-el01\\_sdc1.pdf](https://cdn-links.lww.com/permalink/jbjsel/a/jbjsel_102_14_2020_05_29_parvizi_2000844-el01_sdc1.pdf), 11th May 2020

Vaishya R, Srinivas SBK, Vaish A, Unprecedented surge in Publications related to COVID-19 in the first three months of Pandemic, J Clin Orthop Trauma, Volume 11: Issue (Suppl 3): Page S304–S306, May 2020

Vaishya R, Iyengar KP, Vaish A, Toh E, COVID -19 and remote consulting strategies in the management of Trauma and Orthopaedics. Postgrad Med J, Volume 96: Issue 1137: Page

438–439, 5th May 2020

Vaishya R, Vaish A, Careful dealing with Orthopaedic surgery in COVID-19 pandemic (e letter), J Bone Joint Surg (Am), <http://dx.doi.org/10.2106/JBJS.20.00513>, 6th May 2020

Vaishya R, Vaish A, Maini L, Aamir, 3 D Printing aided elbow deformity correction, Am J Case Reports, Volume 2: Issue 2: Page 3-4, 2020

Vaishya R, Haleem A, Vaish A, Javaid M, Emerging technologies to combat COVID-19 pandemic, J Clinical and Experimental Hepatology, Volume 10: Issue 4: Page 409-411, 2020

Vaishya R, Suman R, Javaid M, Haleem A, Bahl S, Sustainability of Coronavirus on different surfaces, J Clinical and Experimental Hepatology, Volume 10: Issue 4: Page 386-390, 2020

Vaishya R, Iyengar KP, Bahl S, Vaish A, Challenges and Solutions in meeting up the urgent requirement of Ventilators for COVID-19 patient, Diabetes and metabolic syndrome: Clinical Research and Reviews, Volume 14: Issue 4: Page 499–501, July-August 2020

Vaishya R, Iyengar KP, Jain V, Vaish A, Maini L, Lal H, Post COVID-19: Planning strategies to resume orthopaedic surgery –challenges and considerations, J Clin Orthop Trauma, Volume 11: Issue (Suppl 3): Page S291-S295, May 2020

Vaishya R, Haleem A, Javaid M, Khan IH, Significant applications of Big Data in COVID-19 pandemic, Ind J Orthop, Volume 54: Issue 4: Page 526–528, July 2020

Vaishya R, Haleem A, Javaid M, Bahl S, Anand S, Vaish A, Industry 4.0 technologies and their applications in COVID-19 pandemic, Diabetes and Metabolic syndrome: Clinical Research and Reviews, Volume 14: Issue 4: Page 419-422, July 2020

Vaishya R, Hip preservation techniques: A book review, Ind J Orthop (JOIO), Volume 54: Page 535, 23rd April 2020

Vaishya R, Jain VK, COVID-19 and Orthopaedic surgeon: The Indian scenario, Tropical Doctor, Volume 50: Issue 2: Page 108-110, 2020

Vaishya R, Haleem A, Javaid M, Deshmukh SG, Areas of academic research with the impact of COVID-19, The American Journal of Emergency Medicine, Volume 38: Issue 7: Pages 1524-1526, July 2020

Vaishya R, Javaid M, Khan IH, Haleem A, Artificial Intelligence (AI) applications for COVID-19 pandemic, Diabetes and Metabolic syndrome: Clinical Research and Reviews, Volume 14: Issue 4: Page 337-339, July – August 2020

Vaishya R, Vaish A, Roles and Responsibilities of Orthopaedic community and the society during COVID-19 pandemic, Ind J Orthop, Volume 54: Issue 3: Page 998-999, 2020

Vaishya R, Vaish A, Machines vs, Humans: A tug of war in the healthcare, BMJ (Rapid response), BMJ, doi: <https://doi.org/10.1136/bmj.m1326>, Page 269, 2020

Vaishya R, Vaish A, Thapa SS, Non-neoplastic indications and outcomes of the proximal and distal femur megaprosthesis: A critical review, Knee Surg Rel Res, Volume 32: Issue 1: Page 18-25, 2020

Vaishya R, Vaish A, Is Hydroxychloroquine the right choice for COVID-19? BMJ (Rapid Response), BMJ, doi: <https://doi.org/10.1136/bmj.m1432>, Page 369, 8th April 2020

Vaishya R, Haleem A, Javaid M, Vaish A. Effects of COVID-19 pandemic in the field of orthopaedics, J Clin Orthop Trauma, Volume 11: Issue 3: Page 498-499, 2020

Vaishya R, Essop-Adam Amirah, Houcheen-Woleoff

L, Mangwani J, The need for a paradigm shift in the rehabilitation of elective foot and ankle reconstructive surgery patients? An annotation, J Clin Orthop Trauma, Volume 11: Issue 3: Page 369-374, 2020

Vaishya R, Mangwani J, The subspeciality of Foot and Ankle is growing, (Editorial), J Clin Orthop Trauma, Volume 11: Issue 3: Page 347, 2020

Vaishya R, Vaish A, The plight of Health Care Workers in India during COVID-19 pandemic, BMJ (Rapid Response), <https://www.bmj.com/content/369/bmj.m1324/rr-4>, 4th April 2020

Vaishya R, Haleem A, Javaid M, Effects of COVID 19 pandemic in daily life, Current Medicine Research and Practice, Volume 10: Issue 2: Page 78-79, March – April 2020

Vaishya R, Javaid M, Haleem A, 3D Printing applications for the treatment of Cancer, Clinical Epidemiology and Global Health Journal, Volume 8: Issue 4: Page 1072-1076, December 2020

Vaishya R, Srinivas KM, Vaish A, Comparing ACL, and PCL publication trends on PubMed in the last four decades, Ind J Orthop (JOIO), Volume 54: Issue 5: Page 738-739, 18th March 2020

Vaishya R, Kambhupati SBS, Vaish A, Meniscus injuries in the Olympic Games, Ind J Orthop (JOIO), Volume 54: Issue 3: Page 281-293, 2020

Vaishya R, Vaish A, Belbase RJ, Is Blood loss and Transfusion requirements in Simultaneous Bilateral Total Knee Arthroplasty: A retrospective observational study, J Clin Orthop Trauma, Volume 11: Issue (Suppl) 2: Page S214-S218, March 2020

Vaishya R, Vaish A, Rabari Y, Vaishya R, Correction of a severe flexion knee deformity using 3D printing, Ind J Orthop, Volume 54: Issue 2: Page 228-229, 24th January 2020

Vaishya R, Vaish A, Bilateral broken calcaneal spurs,

BMJ Case Rep, Volume 13: Issue 2: Page e234138, 13th February 2020

Vaishya R, Vaish A, Falls in older adults are serious, Ind J Orthop (JOIO), Volume 54: Issue 1: Page 69-74, 24 January 2020

Vaishya R, Kansagra A, Agarwal AK, Vijay V, A ganglion cyst arising from lateral Hoffa's fat pad of the knee, J Orthop Case Rep, Volume 9: Issue 6: Page 36-39, 2020

Vaishya R, Vaish A, Siddiqui M, Baweja P, An osteolytic lesion of the tibial shaft in a young boy. BMJ Case Reports, Volume 13: Issue 2: Page e234170, 11th February 2020

Vaishya R, Sud A, Revisiting Paediatric Orthopaedics, J Clin Orthop Trauma, Volume 11: Issue 2: page 175, 2020

Vaishya R, Patralekh MK, Vaish A, Last five years audit of Journal of Clinical Orthopaedics and Trauma (JCOT) - A Scientometric analysis, J Clin Orthop Trauma, Volume 11: Issue 2: Page 176-183, 2020

Vaishya R, Vaish A, Singh LK, Baweja A, Management of a pathological fracture in a rare case of Gorham Stout disease of the hip with a Mega prosthesis, J Orthop, Volume 18: Page 177-180, March - April 2020

Vaishya R, Haleem A, Javaid M, Khan IH, Artificial Intelligence (AI) applications in Orthopaedics: An innovative technology to embrace, J Clin Orthop Trauma, Volume 11: Issue (Suppl 1): Page S80-S81, February 2020

Vaishya R, Malhotra R, Revision Arthroplasty in 2020, Clin Orthop Trauma, Volume 11: Issue 1: Page 1, 2020

Vaishya R, Mabrouk A, Iyengar KP, Jain VK, Jaly I, Singh B, The Impact of COVID-19 on Orthopaedic Surgeons of BAME Community, Journal of

Orthopaedic and Trauma Care, Volume 2: Issue 2: Page 1-7: 10th October 2020

Vaishya R, Vaish A, Multiple Insufficiency Fractures related to Vitamin D Deficiency in a young lady, Apollo Medicine, Volume 17: Issue 4: Page 283-285, 2020

Vaishya R, Ghonge N, Tubercular Arthritis of Knee: Navigating the diagnostic dilemma, Apollo Medicine, Volume 17: Issue 4: Page 280-282, 2020

Vaishya R, Srinivas SS, Saseeendar SS, Vaish A, What's new in the management of Articular Cartilage Injuries in Athletes?, Journal of Postgraduate Medicine, Education and Research, Volume 54: Issue 4: Page 218-226, October-December 2020

Vaishya R, The plights of medical Post Graduate students during COVID-19 pandemic, J Post Grad Med Ed Res, Volume 54: Issue 3: Page 158-59, 2020

Vaishya R, Iyengar KP, Long term health consequences of COVID-19 disease, Apollo Medicine, Volume 17: Issue 5: Page S32-S35, 2020

Vaishya R, Vaish A, Ansari AH, Pathological fracture of the femoral shaft secondary to Arterio-Venous Malformations, Journal of Orthopaedics and Rehabilitation, Volume 5: Issue 1: Page 14-16: January-June 2020

Vaishya R, Humble beginnings. High ambitions (Editorial), J Arthroscop Surg Sports Med, Volume 1: Issue 2: Page 174-175, October 2020

Vaishya R, Srivastava RN, Unravelling COVID-19 pandemic and undertaking counter productive measures. Apollo Medicine, Volume 17: Issue 5: Page 1, 9th September 2020

Vaishya R, Response to the Letter Regarding 'The birth of an official journal of Indian Arthroscopy Society, J Arthroscop Surg Sports Med, Volume 1:

Issue 2: Page 245-245, September 2020

Vaishya R, Vaish A, Babu SS, Impact of COVID-10 pandemic on India, Apollo Med, Volume 17: Issue 3: Page 136-138, 2020

Vaishya R, What has COVID 19 taught us?, Apollo Medicine, Volume 17: Issue 3: Page 134-135, September 2020

Vaishya R, Javaid M, Vaish A, Role of Internet of Things (IoT) for healthcare monitoring system during COVID-19 pandemic, Apollo Medicine, Volume 17: Issue 5: Page 55-57, 5th August 2020

Vaishya R, Bahl S, Javaid M, Bagha AK, Singh RP, Haleem A, Suman R, Role and applications of Biosensor Technologies in fighting COVID-19 pandemic, Apollo Medicine, Volume 17: Issue 3: Page 221-223, 5th August 2020

Vaishya R, Saseendar S, Vaish A, Challenges in providing Surgical Care during and after COVID-19 pandemic, Apollo Medicine, Volume 17: Issue 3: Page 170-173, 2020

Vaishya R, COVID-19 and the Surgeons, Apollo Medicine, Volume 17: Issue 2: Page 64-65, 18th June 2020

Vaishya R, Vaish A, Sitaula J, Nonsurgical treatment of adult acquired flat foot is effective: A narrative review, Apollo Medicine, Volume 17: Issue 2: Page 94-98, 18th June 2020

Vaishya R, Vaish A, Murrell WD, History of Regenerative Medicine in Orthopaedics, J Arthroscop Surg Sports Med, Volume 1: Issue 1: Page 154-158, June 2020

Vaishya R, The birth of an official journal of Indian Arthroscopic Society (Editorial), J Arthroscop Surg Sports Med, Volume 1: Issue 1: Page 1-2, June 2020

Vaishya R, Khambhampati SB, Most Cited

Publications in Arthroscopy, J Arthroscopy Surg Sports, Volume 1: Issue 2: Page 212-217, June 2020

### Lectures

Lecture, Why Publish?, Scientific writing course of DOA, New Delhi, February 2020

Lecture, Cartilage Repairs, OSSAP CON, Vijaywada, January 2020

Writing a Scientific paper - Abstract, Discussion, and Conclusions, OSSAP CON, Vijaywada, January 2020

Lecture, What happens after your submission? The Editorial Process, OSSAP CON, Vijaywada, January 2020

### Editorial Boards Membership

Editor in Chief, Journal of Clinical Orthopaedics and Trauma, since 1st January 2019

Editor in Chief, Journal of Arthroscopic Surgery and Sports Medicine, since 1st April 2020

Member, Publications Committee, SICOT, since 1st September 2020

## 153. Dr Raman Puri

Cardiology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Member, Indian Medical Association

Founder Chairman, Lipid Association of India

Member, National Lipid Association (USA)

Member, International Atherosclerosis Society (USA)

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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
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## 154. Dr Ramani Narasimhan

Pediatric Orthopedics, Indraprastha Apollo Hospitals, Delhi

### Publications

Ramani Narasimhan, Nikki Hooper, Alaric Aroojis, Emily K Schaeffer, Eva Habib, Judy K Wu, Isabel K Taylor, Jessica F Burlile, Aniruddh Agrawal, Kevin Shea, Kishore Mulpuri, Developmental dysplasia of the hip: an examination of care practices of orthopaedic surgeons in india, Indian J Orthop, Volume 55: Issue 1: Page 158-168, 20th August 2020

### Professional Societies' Positions

Vice President, Paediatric Orthopaedic Foundation (POF), Delhi and NCR, since 2014

President, Paediatric Orthopaedic Society of India (POSI), since January 2017

Life member, Indian Orthopaedic Association (IOA), since 1991

Life Member, Delhi Orthopaedic Association since 1992

Life member, Association of Spinal Surgeons of India (ASSI), since 2002

Life member, Indian Academy of Cerebral Palsy (IACP), since 2005

Associate Life Member, Indian Academy of Paediatrics (IAP) All India, since 1999

Life Member, Indian Academy of Paediatrics (IAP) Delhi, since 1999

Life Member, Indian Medical Association - South Delhi Branch (IMA - SDB), since 1992

Life Member, MAMCOS Old Students Association, since 1985

## 155. Dr Ramesh Sarin

Surgical Oncology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Executive Member, Indian Cancer Society - Delhi Branch, since 2015

## 156. Dr Ranjan Modi

Interventional Cardiology, Indraprastha Apollo Hospitals, Delhi

### Publications

Ranjan Modi, Sunil Modi, Acute coronary syndrome in octogenarians: management perspectives, Journal of Integrative Cardiology Open Access, Volume 3: Issue 4: Page 2-4, 29th August 2020

Ranjan Modi, Sunil Modi, How Low is Low LDL?, Can J Biomed Res and Tech, Volume 3: Issue 4: Page 1-5, September 2020

Ranjan Modi, Praveer Agarwal, Suman Bhandari, Distal protection device in entrapped rota ablation burr – A basket of delight, IHJ Cardiovascular Case Reports (CVCR), Volume 4: Issue 3: Pages 93-96, September–December 2020

Dr Ranjan Modi, Dr Shaan Khetrpal, Dr Sunil Modi, Dr Abhishek Vikram Singh, Dr Nikesh Mishra, Covid -19– the pandemic of the 21st century and correlation with cardiovascular system- a single centre experience, Indian journal of Clinical cardiology, Doi:10.1177/2632463620981481, 6th December 2020

Dr Ranjan Modi, Dr Sunil Modi, Non valvular atrial fibrillation and acute coronary syndrome- present Indian perspective and assessment, Journal of Indian College of Cardiology, DOI:10.22541/au.159741670.01917831, 14th August 2020

## Lectures

Lecture, PTCA: Contemporary Lumenography vs Intravascular Imaging and Physiology, Webinar on Complex cardiac cases, August 2020

Lecture, Role of Anticoagulation in Deep Venous Thrombosis (DVT)/ Venous Thrombo-Embolism (VTE) Management, Webinar, August 2020

Lecture, Should OCT Be Pre-Requisite For PCI?, Complex cardiac cases Webinar, August 2020

Lecture, Most Common and undertreated co-morbidity, Webinar, Iron deficiency in Heart failure, July 2020

Lecture, Heart Failure and Heart Rate Reduction, What's New on the Horizon?, Webinar April 2020

Lecture, Prevention and Treatment of Hypertension complications, Webinar, March 2020

Lecture, Heart attack-Why, When, How, To whom Can we prevent it?, Webinar, Delhi university, March 2020

Lecture, Prevention of coronary artery disease, Apollo marketing team, Webinar, September 2020

Lecture, Outcome Meet- Ticagrelor in Acute Coronary Syndrome, Webinar, August 2020

Panel Discussion, Management of dyslipidaemia in ACS and approach to LDL lowering goals as per guidelines, Webinar, Delhi, December 2020

Panel Discussion, Clinical management of uncontrolled hypertensive patients : Global and Indian data, Webinar, Delhi, November 2020

Lecture, Beta blockers in MI, Webinar, November 2020

## Presentations

Paper presentation, Covid 19: A Cardiologist's

Perspective, ICCCON, Delhi NCR branch, September 2020

## Editorial Boards Membership

Reviewer, Journal of American College of Cardiology (JACC), since 2017

Reviewer, International Journal of Cardiology (IJC), since 2017

Reviewer, Journal of Clinical and Diagnostic Research (JCDR), since 2018

Reviewer, Henry Journal of Cardiology and Cardiovascular Medicine (HJCCM), since 2017

Reviewer, The Eurasian Journal of Medicine, since 2019

Editorial Board Member, International Journal of Cardiology and Cardiovascular Medicine, since 2019

Editorial Board Member, Journal of Hypertension and Heart Care, since 2019

## 157. Dr Ranjana Sharma

Obstetrics and Gynaecology, Indraprastha Apollo Hospitals, Delhi

## Professional Societies' Positions

Chairperson, All India Coordinating Committee North Zone, RCOG UK since 2020

## 158. Dr Renuka Masodkar

Radiation Oncology, Indraprastha Apollo Hospitals, Delhi

## Publications

Renuka Masodkar, GK Jadhav, Sapna Manocha Verma, Sudheer Kumar Tyagi, Radiotherapy for glomus jugulare tumors: A single-institution experience, Apollo Medicine, Volume 17: Issue 1: Page 6-9, 17th March 2020



## Presentations

Poster presentation, Primary Adenoid Cystic Carcinoma of the Lung: A Case Report, Apollo Cancer Conclave, Hyderabad, February 2020

## 159. Dr Rohini Handa

Rheumatology, Indraprastha Apollo Hospitals, Delhi

## Book Published

Editor - Handa R, Sharma A, Rheumatology Clinics: Psoriasis and Psoriatic Arthritis, 1st edition, Evangel Publications, New Delhi, January 2020

## Chapters contributed to text books

Dr Rohini Handa, Section Editor, Rheumatology, Chapter 7.1, Year Book of Medicine, 11th edition Editor- Wander GS, Jaypee Brothers Medical Publishers, Page 485, 2020

Dr Rohini Handa, Antiphospholipid Syndrome-What to tell the patient?, Antiphospholipid Syndrome, Editor - Ghosh UC, Ghosh P, Paul R, Indian College of Physicians publisher, Page 108-111, 2020

Dr Rohini Handa, Sjogren's Syndrome: Key Takeaways for the Internist, Chapter 126, 1/e edition, Progress in Medicine, Volume 30, Editor- S Arulraj, Amal Kumar Banerjee, Association of Physicians of India, Page 651-653, 2020

Dr Rohini Handa, Emergencies in Osteoarthritis and Rheumatoid Arthritis, Emergencies in Medicine, Editor - Nadagouda VG, Indian College of Physicians, Page 432-435, 2020

Dr Rohini Handa, General Principles of Management of SLE, Lupus Nephritis: Pathogenesis to Current Management, Editor - Khullar D, Converse Healthcare Communications, Page 16-27, 2020

## Publications

Rohini Handa, Lai-Shan Tam, Yoshiya Tanaka, Chi-

Chen Chang, Yew Kuang Cheng, Nazrul Isalm, Mengtao Li, Jose Paulo Lorenzo, Yeong-Wook Song, Kazuhiko Yamamoto, Xiaofeng Zeng, Syed Atiqul Haq, Care for patients with rheumatic diseases during COVID-19 pandemic: A position statement from APLAR, Int J Rheum Dis, Vol. 23: Issue 6: Page 717-722, June 2020

Handa Rohini, Dadhaniya Nikunj Kumar V, Sood Isha, Patil Abhishek, Mallaiah Uma, Upadhyaya Sundeep, Gupta SJ, Screening for Hydroxychloroquine Retinal Toxicity in Indian Patients, Journal of Clinical Rheumatology, 6th July 2020

## Orations

Lecture, The Doctor of Today: Striving for Perfection in an Imperfect World, Dr Bankat Chandra Memorial Oration, Indian Medical Association, Hyderabad, 18th September 2020

## Lectures

Session chaired, Management of rheumatic diseases during the COVID-19 pandemic, 22nd Asia Pacific League of Associations for Rheumatology (APLAR) Virtual Congress, 24th - 29th October, 2020

Session chaired, COVID-19 and CTD, 22nd Asia Pacific League of Associations for Rheumatology (APLAR) Virtual Congress, 24th - 29th October, 2020

Session chaired, Special Interest Groups, 22nd Asia Pacific League of Associations for Rheumatology (APLAR) Virtual Congress, 24th - 29th October, 2020

Talk, Rheumatoid Arthritis: Key Takeaways for the Orthopedic Surgeon, Agra Orthopedic Society, Agra, 5th January 2020

Talk, Sjogren's Syndrome: Key Takeaways for the Internist, 75th Annual Conference of Association of

Physicians of India, Agra, 6th – 9th January 2020

Session chaired: How would the future physicians be?; Rheumatology, 75th Annual Conference of Association of Physicians of India, Agra, 6th – 9th January 2020

Talk, Management of APS beyond anticoagulation, Lupus Initiative, Lupus Meet, Kolkata, 11th – 12th January 2020

Talk, Expanding Armamentarium in SLE- When & How to use Tacrolimus in SLE?, Delhi Rheumatology Association (DRA) Annual Rheumatology Update 2020, Lady Hardinge Medical College, New Delhi. February 15-16, 2020.

Talk, Issues in the management of Ankylosing Spondylitis, RHEUMATOCON, Rheumatology Conference, Government Medical College, Patiala, 23rd February 2020

Talk, Immuno-inflammation, Indian Medical Association Webinar, 23rd May 2020

Panelist, Unanswered Questions in Rheumatology for Family Physicians, IMA Mumbai West Branch, Mumbai Panel Discussion, Virtual, 8th August 2020

Talk, Disease Assessment in RA- Eutopia vrd s Real Life, Indian Rheumatology Association, Webinar Series, 30th August 2020

Panelist, Geriatric/ Fragility Fractures Challenges and Solutions Ahead, Indravadan, Ambalal Modi Innovation Conclave, Virtual, 17th October 2020

Talk, Treatment of Rheumatic diseases during COVID-era, 27th Annual Conference (Virtual) of Association of Physicians of India (API), West Bengal Branch, 7th – 8th November 2020

Panelist, Endocrine Rheumatology Orthopedic crossfire, Geriatric Orthopedic Society of India Conference (GOSICON) Virtual, 11th – 13th December 2020

### Editorial Boards Membership

Member, Advisory Editorial Board, Indian Journal of Rheumatology, since 2000

Advisor, Editorial Board, African Journal of Rheumatology, since 2013

Member, Editorial Board, Indonesian Journal of Rheumatology, since 2018

### Awards

Distinguished Clinical Tutor, Apollo Hospitals Educational and Research Foundation (AHERF), India, 2020

## 160. Dr Rupali Goyal

Obstetrics and Gynaecology, Indraprastha Apollo Hospitals, Delhi

### Editorial Boards Membership

Assistant Editor, Fertility and Science Research, Journal, since 2018

### Professional Societies' Positions

Web Editor, Indian Fertility Society, since 2020

## 161. Dr S K Bose

Dermatology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Life Member, IADVL, since 1995

Life Member, Cutaneous Surgeon of India, since 1998

Life Member, International Society of Dermatology, since 2011

## 162. Dr S K Gupta

Cardiology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Fellow, CSI, since 1981

Member, Indian College of Cardiology, since 2011

Fellow, International College of Angiology since 1985

## 163. Dr S K Modi

Cardiology, Indraprastha Apollo Hospitals, Delhi

### Editorial Boards Membership

Member of Editorial board of Indian heart journal since 2010

### Professional Societies' Positions

Founder Presiden, Delhi NCR branch of Indian College of Cardiology, since 2017

## 164. Dr Sameer Kaul

Surgical Oncology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

President, BCPBF -The Cancer Foundation, since 2004

## 165. Dr Sandeep Guleria

Transplant Surgery, Indraprastha Apollo Hospitals, Delhi

### Awards

Apollo Clinical Award, Distinguished Clinician for exemplary clinical services, Apollo Hospitals, Chennai, 4th February 2020

## 166. Dr Sandeep Kumar Upadhyaya

Rheumatology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Secretary, Delhi Rheumatology Association, since 2018

Professor, Apollo Hospitals Educational and Research Foundation, since 2020

Member Secretary, Ethics Committee Delhi, since 2020

Member IRA, since 2000

Member API, since 2000

## 167. Dr Sanjeev Aneja

General Anaesthesia, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

VP, Liver Transplant and Critical Society of India since 2019

## 168. Dr Sanjay Kumar Jain

Gastroenterology, Indraprastha Apollo Hospitals, Delhi

### Professional Societies' Positions

Member, INASL, since 2010

Member, ISG, since 2006

Member, SGEI, since 2005

### 169. Dr Sanjay Sikka

Gastroenterology, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Life Member, Indian Society of Gastroenterology, since 1990

Life Member, Indian Association of Liver Disease, since 1990

Life Member, Indian National Association for the study of Liver, since 1990

Life Member, Indian Society of Gastrointestinal Endoscopy

Fellow, American Society of Gastroenterology

Fellow, Gastroenterology University of Hamburg, since 1994

### 170. Dr Seema Singhal

Histopathology, Indraprastha Apollo Hospitals, Delhi

#### Publications

Seema Singhal, Chander Shekhar, Giant-cell tumor of the metacarpal in a young female: A rare case report, Apollo Medicine, Volume 17: Issue 1: Page 34-36, January-March 2020

Seema Singhal, Suresh Singh Naruka, Sandeep S Sindhu, Venus Rawat, VA Nasyrov, Case report: Rare cases of primary retropharyngeal synovial sarcoma and rhabdomyosarcoma, Journal of Laryngology and Voice, Volume 10: Issue 1: Page 10-14, 2020

Seema Singhal, Chander Shekhar, Xanthogranulomatous osteomyelitis, Apollo Medicine, Volume 17: Issue 4: Page 275-276, 30th December 2020

Seema Singhal, Vinod Kumar Arora, Cytological evaluation of p16Ink4a in precancerous lesions of the cervix: Conventional papanicolaou smears, Apollo Medicine, Volume 17: Issue 4: Page 240-245, 2020, 30th December 2020

### 171. Dr Shishir Seth

Bone Marrow Transplant, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Executive Member, Delhi Hematology Society and Hematology, Group since 2016

### 172. Dr Smita Malhotra

Pediatric Gastroenterology and Hepatology, Indraprastha Apollo Hospitals, Delhi

#### Publications

Smita Malhotra, Anupam Sibal, Neerav Goyal, Pediatric Liver Transplantation in India: 22 Years and Counting, Indian Pediatr, Volume 57: Issue 12: Page 1110-1113, 15th December 2020

### 173. Dr Sunil Modi

Cardiology, Indraprastha Apollo Hospitals, Delhi

#### Publications

Sunil Modi, Ranjan Modi, Acute Coronary Syndrome in Octogenarians: Management Perspectives, Journal of Integrative Cardiology Open Access, Volume 3: Issue 4: Page 2-4, 29th August 2020

Sunil Modi, Ranjan Modi, Shaan Khatri, Abhishek Vikram Singh, Nikesh Mishra, COVID-19—The Pandemic of the 21st Century and Correlation with Cardiovascular System—A Single Center Experience, Indian Journal of Clinical Cardiology, Volume 2: Issue 1: Page 10-15, 29th December 2020

Dr Sunil Modi, Dr Ranjan Modi, How Low is Low LDL?, Can J Biomed Res & Tech, Volume 3: Issue 4, Page 1-5, September 2020

Dr Sunil Modi, Dr Ranjan Modi, Dr Aparna Jaswal, Non valvular atrial fibrillation and acute coronary syndrome- present Indian perspective and assessment, Journal of Indian College of Cardiology, DOI: 10.22541/au.159741670.01917831, 14th August 2020

#### 174. Dr Sushma Prasad Sinha

Obstetrics and Gynaecology, Indraprastha Apollo Hospitals, Delhi

##### Professional Societies' Positions

Convener, Special Interest Group in Reproductive Endocrinology Indian Fertility Society, since 2020

#### 175. Dr Tarun Sahni

Internal Medicine, Indraprastha Apollo Hospitals, Delhi

##### Professional Societies' Positions

President, Hyperbaric Society of India, since 1998

Vice President, Asian Hyperbaric and Diving Medical Association, since 2016

#### 176. Dr Vinit Suri

Neurology, Indraprastha Apollo Hospitals, Delhi

##### Editorial Boards Membership

Associate Editor, Journal of Stroke Medicine, since 2019

Chief Editor, Neurology Elsevier, since 2020

##### Professional Societies' Positions

President, Indian Stroke Association, since 2019

#### 177. Dr Vipul Vijay

Orthopedic, Indraprastha Apollo Hospitals, Delhi

##### Editorial Boards Membership

Associate Editor, Journal of Clinical Orthopedics and Trauma, since 2019

#### 178. Dr Vivek Gupta

Cardiology, Indraprastha Apollo Hospitals, Delhi

##### Professional Societies' Positions

Life Member, Cardiological Society of India

Life Member, Indian College of Cardiology

Life Member, European Society of Cardiology

Fellow, European Association of Percutaneous Coronary Intervention

Member, American College of Cardiology

Member, Asia Pacific Society of Interventional Cardiology

Member, Society of Cardiac Catheterisation and Intervention

#### 179. Dr Yashwant Tanwar

Orthopedics, Indraprastha Apollo Hospitals, Delhi

##### Publications

Tanwar Y, Oosthuysen W, Venter R, Ferreira N, Bioactive glass as dead space management following debridement of type 3 chronic osteomyelitis, Int Orthop, Volume 44: Issue 3: Page 421-428, March 2020

Tanwar YS, Ferreira N, The role of bioactive glass in the management of chronic osteomyelitis: a systematic review of literature and current evidence, Infect Dis (Lond), Volume 52: Issue 4: Page 219-226, April 2020

Tanwar Y, Potgieter M, Oosthuizen M, Schubert P4  
Ferreira N, Bursal synovial chondromatosis  
overlying a solitary osteochondroma of the distal  
femur: a case report, South African Orthopaedic  
Journal, Volume 19: Issue 1: Page 46-49, 2020

Tanwar YS, Ferreira N, Burger M, The effect of  
fixation dynamization on fracture healing: A  
systematic review, J Limb Lengthen Reconstr,  
Volume 6: Page 7-12, 1st September 2020

### 180. Dr Yatinder Kharbanda

Orthopedic, Indraprastha Apollo Hospitals, Delhi

#### Professional Societies' Positions

Vice President, South Delhi Orthopedic Society,  
since 2018

## DRDO

### 181. Dr Ahmed Mastan Mukarab

Radiology, Apollo Hospitals, DRDO

#### Awards

Most Trusted Radiologist Award, Topgallant Media,  
COVID Warriors Award, 27th November 2020

## Guwahati

### 182. Dr Geetanjali Sahariah Khound

Pediatrics, Apollo Hospitals, Guwahati

#### Publications

G Sahariah Khound, R Khaund Borkotoky, AL Saha,  
P Banerjee Barua, B Das, N Khound, S Pathak  
Scrub typhus: a series of cases in a tertiary care  
centre from April 2018 to July 2019, Arch Dis  
Child, Volume 105: Issue Suppl 1: Page  
A221-A238, 2020

### 183. Dr J P Kalita

CTVS, Apollo Hospitals, Guwahati

#### Professional Societies' Positions

Member, Doctoral Committee, PhD scholars,  
National Institute of Technology, Meghalaya, since  
5th June 2020

### 184. Dr Prabuddha Jyoti Das

Radiology, Apollo Hospitals, Guwahati

#### Publications

Prabuddha J Das, Sanjeev K Handique, Baijayanta  
Saharia, A Study on First Ischemic Stroke Patients  
for Prevalence of Extracranial Carotid Artery  
Stenosis and Risk Factors: Our Experience in  
Northeast India and Review of Literature, Journal  
of Diagnostic Medical Sonography, Volume 37:  
Issue 2: Page 133-143, 22nd December 2020

## Hyderabad

### 185. Dr Anuradha Panda

Obstetrics and Gynaecology, Apollo Hospitals,  
Jubilee Hills, Hyderabad

#### Awards

Legend of Year, Times health care Achievers,  
February 2020

### 186. Dr C Venkata S Ram

General Physician, Apollo Hospitals, Jubilee Hills,  
Hyderabad

#### Publications

Venkata S Ram, Giridhara R Babu, Dorairaj  
Prabhakaran, COVID-19 pandemic in India,  
European Heart Journal, Volume 41: Issue 40: Page  
3874-3876, 21st October 2020



### 187. Dr Chandrakant Tarke

Pulmonology, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Publications

Tarke C, Kunal S, Gupta K, Sharma S M, Pathak V, Mittal S, Cardiovascular system and COVID-19: perspectives from a developing country, Monaldi Archives for Chest Disease, Volume 90: Issue 2: Page 231-241, 2020

### 188. Dr Chinnababu

Surgical Oncology, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Lectures

Talk, Debunking Myths of Cancer Corporate, Madhapur, February 2020

### 189. Dr E C Vinaya Kumar

ENT, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Awards

Global Health Care Equality Humanitarian (GHCEH) Award, American Association of Physicians of Indian Origin (AAPI), USA, February 2020

### 190. Dr Indumathy

Ophthalmology, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Publications

Indumathy TR, Fogla R, Fontana L, Modified big bubble technique of deep anterior lamellar keratoplasty, J Cataract Refract Surg, doi: 10.1097/j.jcrs.0000000000000469, 2nd November 2020

### 191. Dr K Somashekar

Medical Gastroenterology, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Awards

Indian Brand Icon Award, Healthcare (Hepatitis) awareness in AP and Telangana, Mumbai, 2nd February 2020

### 192. Dr K Subba Reddy

Critical Care, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Publications

Kesavarapu Subba Reddy, Jeetendra Sharma, Prashant Nasa, Swarna Deepak Kuragayala, Shikha Sahi, Palepu Gopal, Dhruva Chaudhary, Subhal B Dixit, Srinivas Samavedam, Infection Prevention and Control for ICU during COVID-19 Pandemic: Position Paper of the Indian Society of Critical Care Medicine, Indian J Crit Care Med, Volume 24: Issue (Suppl 5): Page S280-S289, November 2020

### 193. Dr M Somashekhar

Nephrology, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Publications

Somasekher M, Saha Tarun Kumar, Subramaniam S, Outcome of dual kidney transplantation from marginal deceased kidney donor, Transplantation, Volume 104: Issue S3: Page S401, September 2020

### 194. Dr M Neeraja

Transplant Immunology, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Lectures

Lecture, Coexistence with COVID-19, Department of Microbiology, Telangana Social Welfare Degree

College for Women, Nalgonda, 12th July 2020

Lecture, The effects of HLA antibodies on endothelial cell: Mechanisms of antibody-mediated rejection, ISHI webinar series no.3, 6th November 2020

Lecture, Towards defining immunogenicity of HLA epitope mismatches, ISHI webinar series no.4, 16th December 2020

#### Professional Societies' Positions

Member, Indian association of Medical Microbiologists, since 2012

Member, Indian Society for Histocompatibility and Immunogenetics, since 2020

Member, Indian Women Scientists Association, since 2020

#### Awards

Awarded 3.225 CEC'S, 46th Annual American Society for Histocompatibility and Immunogenetics meeting, 19th – 23rd October 2020

### 195. Dr Manish Verma

Transplant Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Awards

Apollo Clinical Award, Young Clinician for their exemplary clinical services, 4th February 2020

### 196. Dr Manjunath Bale

Thoracic and Minimal Access Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Publications

Manjunath Bale, Ankush Modi, Rajinder Parshad, Suhani Suhani, Govind Makharia, Raju Sharma, Long-term Outcomes of Laparoscopic Heller's Cardiomyotomy in Achalasia Cardia with Megaesophagus, Surg Laparosc Endosc Percutan

Tech, Volume 31: Issue 2: Page 175-180, 2nd September 2020

### 197. Dr Namita Singh

Psychology, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Lectures

Panel discussion, Psychological issues in Teenage-Heads, Obstetrics and Gynaecological Society of Hyderabad (OGSH) Annual CME, YUKTI, 9th February 2020

Lecture, Managing MS during COVID-19, MS Day Celebration, MSSl, Webinar, 15th May 2020

Neuropsychology and its Relevance Today, Shobhit University, Webinar Series, 1st June 2020

Emotional wellbeing in the time of COVID-19, Interactive webinar Wings of Women AFWWA Bidar Golden Jubilee Celebration, 27th October 2020

### 198. Dr Naveen Polavarapu

Gastroenterology and Transplant Hepatology, Apollo Hospitals, Jubilee Hills, Hyderabad

#### Publications

Naveen Polavarapu, Gamal Shiha, Marko Korenjak, Wayne Eskridge, Teresa Casanovas, Patricia Velez-Moller, Sari Högström, Ben Richardson, Christopher Munoz, Sólveig Sigurðardóttir, Alioune Coulibaly, Miskovikj Milan, Fabiana Bautista, Nancy Wai Yee Leung, Vicki Mooney, Solomon Obekpa, Eva Bech, Abd Elkhalek Hamed, Temur Radiani, Edhie Purwanto, Bisi Bright, Mohammad Ali, Cecil Kwaku Dovia, Lone McColaugh, Yiannoula Koulla, Jean-François Dufour, Reham Soliman, Mohammed Eslam, Redefining fatty liver disease: an international patient perspective, Lancet Gastroenterol Hepatol, Volume 6: Issue 1: Page 73-79, 5th October 2020

## 199. Sathavahana Chowdary Vattikonda

ENT, Apollo Hospitals, Jubilee Hills, Hyderabad

### Professional Societies' Positions

Member, Association of Otolaryngologists of India

Member, Indian Society of Otolaryngology

Member, Indian Society of Rhinology

Member, Indian Academy of Allergy and Applied Immunology

Member, Indian Association of Laser Surgery and Medicine

Member, Neuro Equilibrimetric Society of India

Member, Scientific Advisory Board of UCB Academy of Allergy

Member, World Allergy Organization

## 200. Dr P Soundarapandian

Nephrology, Apollo Hospitals, Jubilee Hills, Hyderabad

### Awards

Dronacharya Award, AVTAR, Nephrology teaching experience for 35 yrs, 2020

## 201. Dr Swarnalata Gowrishankar

Histopathology, Apollo Hospitals, Jubilee Hills, Hyderabad

### Publications

Gowrishankar S, V, Benjamin, Nast C, Jayasumana C, Schreurs G, Roels F, Herath C, Mousson C, Dassanayake R, Orantes C, D Haese P, De Broe M, Chronic Interstitial Nephritis in Agricultural Communities (CINAC): a Toxic Lysosomal Tubulopathy, Kidney Int, Volume 97: Issue 2: Page 350-369, February 2020

S. Gowrishankar, Divya Meermira, Study of KI-67 index in the molecular subtypes of breast cancer: inter-observer variability and automated scoring, Indian J Cancer, Volume 57: Issue 3: Page 289-295, July – September 2020

S Gowrishankar, P Koshi, M Mathew, N Gopalakrishnan, G Abraham, Pathology of Uddanam endemic nephropathy, Short review, Ind J Nephrol, Volume 30: Issue 4: Page 253-255, July – August 2020

Gowrishankar S, Etta PK, Rao MV, Reddy S, Agarwal N, Lymphomatous interstitial nephritis coexistent with paraneoplastic crescentic membranoproliferative glomerulonephritis in a case of mantle cell lymphoma, Indian J Nephrol, Volume 30: Issue 3: Page 192-195, May – June 2020

Swarnalata Gowrishankar, Benjamin A Vervaet, Cynthia C Nast, Channa Jayasumana, Gerd Schreurs, Frank Roels, Chula Herath, Nika Kojc, Vahid Samaee, Sonali Rodrigo, Christiane Mousson, Rajeewa Dassanayake, Carlos M Orantes, Vincent Vuiblet, Claire Rigother, Patrick C D'Haese, Marc E De Broe, Chronic interstitial nephritis in agricultural communities is a toxin-induced proximal tubular nephropathy, Volume 97: Issue 2: Page 350-369, February 2020

Gowrishankar S, Etta PK, Clopidogrel induced thrombotic microangiopathy successfully treated with conservative approach, Indian J Nephrol, Volume 30: Issue 3: Page 209-210, 11th February 2020

Swarnalata Gowrishankar, An approach to allograft renal biopsy interpretation for the beginner- A narrative review, Ind J Transplant, Volume 14: Issue 3: Page 189-196, 2020

### Orations

Communication in Pathology: An art and a science, Annual meeting of the Karnataka Chapter of the IAPM, 2nd October 2020

## Lectures

Faculty, Taking Digital Pathology forward in India, Digital Pathology symposium, Tata Memorial Centre, Kolkata, 15th -16th January 2020

Talk, Post-transplant lymphoproliferative disease, The International Renal Pathology Update, Lal Path, New Delhi, 15th – 16th February 2020

Talk, Artificial Intelligence in Renal Pathology, CME on Computational Renal Pathology, Hyderabad, 21st February 2020

Lecture, Recognition of Injury Patterns in the various compartments in Renal Biopsies, Virtual, November-December 2020

## 202. Dr Padmaja Lokkireddy

Haemato-Oncology, Apollo Hospitals, Jubilee Hills, Hyderabad

## Awards

Indian Brand Icon 2020 Award, for Excellent Health Care in Haematology and Bone Marrow Transplant, 2020

## 203. Dr Rajesh Fogla

Ophthalmology, Apollo Hospitals, Jubilee Hills, Hyderabad

## Publications

Fogla R, Luthra G, Chhabra A, Gupta K, Dalal R, Khamar P, Preferred practice patterns for photorefractive keratectomy surgery, Indian J Ophthalmol, Volume 68: Issue 12: page 2847-2855, December 2020

Fogla R, Indumathy TR, Customized toric intraocular lens implantation in cornea plana. J Cataract Refract Surg, Volume 46: issue 12: page e11-e14, December 2020

Fogla R, Sharma N, D'Souza S, Nathawat R, Sinha R, Gokhale NS, Eye Bank Association of India consensus statement on guidelines for cornea and eyebanking during COVID-19 era, Indian J Ophthalmol, Volume 68: Issue 7: Page 1258-1262, July 2020

Fogla R, Indumathy TR, Gundersen flap removal to restore eyesight without limbal transplantation-a case report, Cornea, doi: 10.1097/ICO.0000000000002530, 18th November 2020

Fogla R, Saad A, Ghazzal W, Keaik M, Indumathy TR, Outcomes of Descemet's membrane endothelial keratoplasty for congenital hereditary endothelial dystrophy, Journal of American Association for Pediatric Ophthalmology and Strabismus, Volume 24: Issue 6: Pages 358.e1-358.e6, December 2020

Fogla R, Srinivasan B, Corneal folds after descemet membrane endothelial keratoplasty in congenital hereditary endothelial dystrophy, Cornea, doi: 10.1097/ICO.0000000000002471, 27th August 2020

Fogla R, Indumathy TR, Fontana L, Modified big bubble technique of deep anterior lamellar keratoplasty, J Cataract Refract Surg, doi: 10.1097/j.jcrs.0000000000000469, 2nd November 2020

## Professional Societies' Positions

Visiting Professor, Ophthalmology Department, Universidad Maimonides, University in Buenos Aires, Argentina, since 2020

## Awards

Fellowship, Royal College of Ophthalmologists, FRCOphth, London, 10th March 2020

## 204. Dr Rooma Sinha

Gynaecology, Minimal Access and Robotic Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

### Book Published

Editor- Dr Rooma Sinha, Fibroid uterus - Surgical challenges in Minimal Access Surgery, 1st edition, Taylor & Swift a New York based publishing house, 7th December 2020

### Lectures

Organised, First ever CME on robotic surgery in gynecology, 12th December 2020

### Presentations

Presentation, Coexisting pathologies- Bilateral Endometrioma, Adenomyoma, Fibroid Uterus, Strategy using Robotic Surgery, Virtual, SERGS, 2020

### Professional Societies' Positions

Member, Society of European Robotic Gynaecological Surgeons (SERGS), since 2015

Member, American Association of Gynecological Laparoscopist (AAGL), since 2013

Member, New European Surgical Academy (NESA), since 2015

Member, International Urogynecological Association (IUGA), since 2006

Member, International Federation of Gynecology and Obstetrics (FIGO), since 1996

Member, Federation Obstetrics and Gynecological societies of India (FOGSI), since 1996

Member, Obstetrics and Gynecological Society of Hyderabad (OGSH), since 1996

Member, Indian Association of Gynaecological Endoscopists (IAGE), since 2012

Member, Indian Society of Perinatology and Reproductive Biology (ISOPARB), since 2011

Member, Indian Medical Association (IMA), since 1997

Member, Indian Menopausal Society (IMS), since 2000

Member, PCOS Society of India, since 2020

Member, British Society of Gynecological Surgeons (BSGS), Since 2020

## 205. Dr Sai Daayana

Gynae Oncology, Apollo Hospitals, Jubilee Hills, Hyderabad

### Lectures

Speaker, All India Congress of Obstetrics and Gynaecology, February 2020

### Awards

Women's Excellence Award, International Women's Day, Telangana, March 2020

## 206. Dr Sanjay Sinha

Urology, Apollo Hospitals, Jubilee Hills, Hyderabad

### Editorial Boards Membership

Regional Editor, SIUJ, Official Journal- SIU the Global Association for all Urologists, since 2020

## 207. Dr Sanjeev Kumar Khulbey

Cardiothoracic and Vascular Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

### Publications

Sanjeev Kumar Khulbey, Richard Kirk, Anne I. Dipchand, Ryan R. Davies, Oliver Miera, Gretchen Chapman, Jennifer Conway, Susan Denfield, Jeffrey

G. Gossett, Jonathan Johnson, Michael McCulloch, Martin Schweiger, Daniel Zimpfer, László Ablonczy, Iki Adachi, Dimpna Albert, Peta Alexander, Shahnawaz Amdani, Antonio Amodeo, Estela Azeka, Jean Ballweg, Gary Beasley, Jens Böhmer, Alison Butler, Manuela Camino, Javier Castro, Sharon Chen, Maryanne Chrisant, Urs Christen, Lara Danziger-Isakov, Bibhuti Das, Melanie Everitt, Brian Feingold, Matthew Fenton, Luis Garcia-Guereta, Justin Godown, Dipankar Gupta, Claire Irving, Anna Joong, Mariska Kemna, Steven Kindel, Kenneth Knecht, Ashwin K. Lal, Kimberly Lin, Karen Lord, Thomas Möller, Deipanjan Nandi, Oliver Niesse, David M. Peng, Alicia Pérez-Blanco, Ann Punnoose, Zdenka Reinhardt, David Rosenthal, Angie Scales, Janet Scheel, Renata Shih, Jonathan Smith, Jacqueline Smits, Josef Thul, Robert Weintraub, Steve Zangwill, Warren A. Zuckerman, ISHLT consensus statement on donor organ acceptability and management in pediatric heart transplantation, Consensus Statement Paper, Volume 39: Issue 4: Page P331-341, 1st April 2020

## 208. Dr Sharmila Kaza

Pediatrics, Apollo Hospitals, Jubilee Hills, Hyderabad

### Awards

Felicitated for work during COVID times by Hon'ble chief justice of High Court Telanagana Stata Shri Raghavendra Singh Chauhan and His excellency Nawab Mir Nasir Ali Khan organised by Nathans learning forum, 2020.

## 209. Dr Sudha Ranganathan

Transfusion Medicine, Apollo Hospitals, Jubilee Hills, Hyderabad

### Publications

Sudha Ranganathan, Ranganathan N Iyer, Convalescent Plasma – Is it Useful for Treating SARS Co-V2 infection?, Indian Journal of Medical

Microbiology, Volume 38: Issue 3-4: Page 252-260, 5th November 2020

## 210. Dr Sudhir Kumar

Neurology, Apollo Hospitals, Jubilee Hills, Hyderabad

### Awards

Innovative Healthcare Leadership Award – Neurologist, Category- For Excellence and Leadership in Healthcare, Golden Aim Awards, 24th November 2020

## 211. Dr Swarna Deepak

Intensive Care, Apollo Hospitals, Jubilee Hills, Hyderabad

### Awards

Apollo Clinical Award, Young Academician for their exemplary services in academics, 4th February 2020

## 212. Dr Vimee Bindra

Gynaecology, Laparoscopic Surgery and Infertility, Apollo Hospitals, Jubilee Hills, Hyderabad

### Chapters contributed to text books

Dr Vimee Bindra, Vaginoscopy, Hysteroscopy Simplified by Masters, Chapter 28, Editor- Tandulwadkar, Sunita, Pal, Bhaskar, 1st edition, International Publishing house Springer Nature, Page 229-230, June 2020

Dr Vimee Bindra, Oral Contraceptive Pills, Handbook of Drugs in Infertility, Chapter 11, Editor- Nandita Palshetkar, Rohan Palshetkar, 1st edition, Jaypee Brothers Medical Publishers, Page 103-111, 2020

### Publications

Vimee Bindra, Telemedicine for Women's Health During COVID-19 Pandemic in India: A Short



Commentary and Important Practice Points for Obstetricians and Gynaecologists, J Obstet Gynaecol India, Volume 70: Issue 4: Page 279-282, August 2020

Vimee Bindra, Anusha Rao Ponnamaneni, Laparoscopic management of massive recurrent endometrioma with atypical presentation: A case report, Journal of Endometriosis and Pelvic Pain Disorders, Volume 12: Issue 2: Page 228402652091147, April 2020

### Lectures

Invited operating faculty, Live Hysteroscopy Hands on Workshop, Start Endogyn Conclave, 3rd January 2020

### Awards

Best Emerging Gynecologist Award, Nationwide Healthcare conclave and awards, 5th January 2020

Dr A P J Abdul Kalam Memorial Excellence Award, for best and dedicated services to the medical field, November 2020

Women Healthcare Leadership Award, for excellence and leadership in healthcare, November 2020

## 213. Dr Yoganagendhar

Paediatric Surgery, Apollo Hospitals, Jubilee Hills, Hyderabad

### Awards

Best Poster Award, Block The Santuilli's Ileostomy To Gain Some Weight Before Ileostomy Closure, Session on GIS at E-IAPSCON, Indian Association of Pediatric Surgeons, 16th -18th October 2020

## Indore

## 214. Dr Akshat Pandey

Rheumatology, Apollo Hospitals, Indore

### Lectures

Organising committee, Indo-UK World Rheumatology forum, 2020

Lecture, Clinical assessment of Arthritis and management of Arthritis, IMA-CGP MP Webinar, 2020

Lecture, Patient Awareness program on Ankylosing Spondylitis for AS patients, 2020

Lecture, Jain social group in How to take care of Arthritis in COVID-19 ERA, Webinar, 2020

Guest Speaker, Approach to an inflammatory backache and recent advancement in management of ankylosing spondylitis, Neurosurgeons Group, 28th February 2020

### Publications

Akshat Pandey, Abhimanyu Nigam, Ashmeet Chaudhary, VP Pandey, Clinical manifestations and complications seen with scrub typhus: A case series from Indore, Apollo Medicine, Volume 17: Issue 2: Page 101-104, 18th June 2020

Akshat Pandey, Mohit Goyal, Pravin Patil, Himanshu Pathak, Sham Santhanam, Anshul Goel, Vishnu Sharma, Nikhil Gupta, Rahul Jain, Shashank Akerkar, Parthajit Das, Rajkiran Dudam, Naval Mendiratta, Bimlesh Dhar Pandey, Mithun Cb, Bharat K Singh, Sharath Kumar, Nilesh Nolkha, Shriyanka Jain, Somya Jain, Ashish Sharma, Durga Prasanna Misra, Impact of COVID-19 pandemic on patients with SLE: results of a large multicentric survey from India, doi: 10.1136/annrheumdis-2020-218013, 15th July 2020

Akshat Pandey, Rizwan Rajak, Mimansha Pandey, Periodontal diseases and its association with disease activity in ankylosing spondylitis/SpA: A systematic review, Periodontal disease in AS: A systematic review, DOI:10.5152/eurjrheum.2020.20177, December 2020

Pandey A, Ravindran V, Pandey M, et al AB0713 Periodontal diseases and its association with ankylosing spondylitis/SPA: A Systematic Review. Annals of the Rheumatic Diseases, Volume 79: Page 1652, 2020

#### **Professional Societies' Positions**

Member, American college of Rheumatology (ACR), since 2017

Member, British society of Rheumatology (BSR), since 2017

Member, Emerging EULAR Network (EMEUNET), since 2017

Member, Indian Medical association, since 2013

Member, European Lupus Society, since 2017

Member, International Osteoporosis Foundation, since 2017

Member, Indian Rheumatology Association, since 2020

#### **Awards**

Travel Bursary Award, Periodontitis in Ankylosing Spondylitis, EULAR, 2020

### **215. Dr Saurabh Chipde**

Urology and Transplant, Apollo Hospitals, Indore

#### **Publications**

Chipde S, Vajpeyi V, Khan F A, Parashar S, Forgotten double-J stent: Experience of a tertiary care center, Urol Ann, Volume 12: Issue 2: Page 138-143, April –June 2020

#### **Lectures**

Chairperson, Transplant session, USICON, Kochi, 24th January 2020

#### **Editorial Boards Membership**

Reviewer, Journal of Endourology, since 2013

Reviewer, International Journal of Urology, since 2013

Reviewer, International Urogynaecology, since 2013

Reviewer, Indian Journal of Urology, since 2012

Reviewer, Saudi Journal of Kidney Disease and Transplantation, since 2012

Editorial Board Member, Indian Journal of Urology, since 2017

#### **Professional Societies' Positions**

Life Member, Urology Society of India, since 2012

Member, American Urological Association, since 2017

Life Member, Indian Medical Association, since 2012

Life Member, Association of Surgeons of India, since 2013

Associate Member, North Zone Chapter USI, since 2011

### **216. Dr Sunil Rajan**

Orthopedic and Joint Replacement, Apollo Hospitals, Indore

#### **Awards**

Excellence in Clinical Service Award, for- Day Care Total Knee Replacement- A New Concept - First in Central India, Apollo Hospitals, 5th February 2020

## Jayanagar

### 217. Dr Girish K Joshi

Neurosurgery, Apollo Specialty Hospitals, Jayanagar

#### Publications

Girish Joshi, Yasuhiro Yamada, Binoy Damodar Thavara, Riki Tanaka, Kyosuke Miyatani, Kazutaka Nakao, Tsukasa Kawase, Katsumi Takizava, Yoko Kato, EC-IC Bypass; Our experience of cerebral revascularization with intraoperative Dual-Image Video Angiography (Diva), Asian Journal of Neurosurgery (Asian J Neurosurg), Volume 15: Issue 3: Page 499-506, 2020

Girish Joshi, Binoy Damodar Thavara, Yasuhiro Yamada, Riki Tanaka, Kyosuke Miyatani, Gowtham Devareddy, Kazutaka Nakao, Tsukasa Kawase, Yoko Kato, Analysis of the surgical outcome of unruptured intracranial saccular aneurysms in octogenarians (80–89 Years), Asian Journal of Neurosurgery (Asian J Neurosurg), Volume 15: Issue 3: Page 640-643, 28th August 2020

Girish Joshi, Kazutaka Nakao, Yuichi Hirose, Riki Tanaka, Yasuhiro Yamada, Kyosuke Miyatani, Binoy Damodar Thavara, Tsukasa Kawase, Yoko Kato, Rare cases of contrast-induced encephalopathies, Asian Journal of Neurosurgery (Asian J Neurosurg), Volume 15: Issue 3: Page 786-793, 2020

### 218. Dr P Satishchandra

Neurology, Apollo Specialty Hospitals, Jayanagar

#### Professional Societies' Positions

Members, Scientific Advisory Committee, NCDIR, ICMR, Bangalore, since 2020

Chairman, Research Panel on Stroke, NCDIR, ICMR, Bangalore, since 2020

Member of task forces of Government of India or

#### State Governments

Task force Expert member, National Registry on Multiple Sclerosis and other allied demyelinating disorders, Indian Council of medical Research (ICMR), New Delhi, since 2020

#### Awards

Apollo Clinical Award, Distinguished Academician for their exemplary services in academics, 4th February 2020

## Karur

### 219. Dr S Kesavan

Cardiology, Apollo Loga Hospitals, Karur

#### Professional Societies' Positions

Member, IAP

Member, CSI

Member, IMA

#### Awards

FSCAI award, USA, 2020

## Kolkata

### 220. Dr Bhaskar Pal

Obstetrics and Gynecology, Apollo Gleneagles Hospitals, Kolkata

#### Publications

Bhaskar Pal, Neerja Bhatla, Jyoti Meena, Krishnendu Gupta, Human papillomavirus vaccination: Good clinical practice recommendations from the Federation of Obstetric and Gynecological Societies of India, J Obstet Gynaecol, Volume 46: Issue 9: Page 1651–1660, September 2020

## Orations

Lecture, Adolescent Health: A Challenge, OGSN Oration, YUKTI, Annual CME of Obs and Gyn Society, Hyderabad, February 2020

## Lectures

Moderator, The Ectopic Endometrium: Great Hinderance in Infertility, Annual ISAR Conference, Hyderabad, March 2020

Chaired, Keynote Lecture session, Annual ISAR Conference, Hyderabad, March 2020

Moderator, Medicolegal Issues in Gynaecological Endoscopy, Star Endogyn Conclave, IAGE Regional Conference, Patna, February 2020.

Lecture, Progesterones in Recurrent Miscarriage, MILAN Conference of Obs and Gynae Societies of West Bengal, Kolkata, February 2020

Lecture, Thromboembolism in Pregnancy: Prevention and Management, Annual AMOGS (Association of Maharashtra Obs and Gynae Societies) conference, Amravati, February 2020

Moderator, Obstetric Analgesia and Anaesthesia, Annual conference of the Mumbai Obs and Gynae Society, Mumbai, February 2020

Moderator, Obstetrician's Rescue During Caesarean Section, AICOG, Lucknow, February 2020

Talk, Evidence Based Medicine, Workshop of the Young Talent Promotion Committee, FOGSI, AICOG, Lucknow, January 2020

Moderator, Caesarean Sections: Not always Easy Sessions, Workshop of the Safe Motherhood Committee, FOGSI, AICOG, Lucknow, January 2020

Lecture, Intrapartum Fetal Monitoring, Pre-congress workshop, AICOG, Lucknow, January 2020

Lecture, Epidemiology and Statistics, MRCOG Part 1 course, Mumbai, January 2020

Lecture, Congenital Infections in Pregnancy, MRCOG Part 1 course, Mumbai, January 2020

Lecture, Caesarean Section in the Second Stage, Post-Congress Meeting, Birth Congress, Valencia, 17th October 2020

Moderator, Endoscopy in Adolescents, ORIGYN, FIGO, 21st November 2020

Lecture, COVID 19 and Pregnancy, Annual Conference Obstetric and Gynaecological Society, Patna, 20th December 2020

Lecture, Laparoscopic Myomectomy, CME of AOGD Delhi, Endoscopy Committee, 20th December 2020

Keynote lecture, Venous Thromboembolism in Pregnancy, AICC RCOG E-Conclave, 19th December 2020

Lecture, Fever in Pregnancy, CME of Safe Motherhood Committee of FOGSI, 9th December 2020

Panelist, Genetics and RPL, Young Talent Promotion Committee of FOGSI, 5th December 2020

Lecture, LMWH in Current Practice, CME of All Obs and Gynae Societies, Maharashtra, 24th November 2020

Panelist, Laparoscopy in Young Girls, Annual E-Conference Obs and Gynae Conference, Navi Mumbai, 8th November 2020

Panelist, High Risk Pregnancy, CME, Indore Obs and Gynae Society, 7th November 2020

Lecture, Integrating Medical and Surgical Treatment in Endometriosis, MASSK, Annual E-Conference, IAGE, 1st November 2020

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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|
| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

Lecture, Controversies in the Management of Tubal Ectopic Pregnancy, Annual E Conference, Association of Obst and Gynae, Delhi, 31st October 2020

Chaired, Webinar of Oncology Committee, FOGSI, 24th October 2020

Lecture, Simplifying TLH, CME, Obs and Gynae Society, Hyderabad, 12th October 2020

Chaired, Webinar on High Risk Pregnancy, AICC RCOG East Zone, 10th October 2020

Debator, Ovarian Endometrioma: Surgery Vs ART, TOG Webinar, 8th October 2020

Lecture, Ectopic Pregnancy: Choosing the Right Management, VE STAR Conference, IAGE, 4th October 2020

Lecture, Approach to Adnexal Mass, E & I, 3rd October 2020

Chaired, Pregnancy to NCD: Opportunities for Prevention, Webinar, AICC RCOG & NCD Committee, FIGO, 1st October 2020

Lecture, Nuances of Antibiotic Therapy in Gynaecological Surgeries, CME, Obs and Gynae Society, Hyderabad, 30th September 2020

Lecture, Simplifying TLH, CME, MP Chapter of IAGE, 29th September 2020

Lecture, Assessment of Adnexal Mass, Fertility Enhancing Endoscopic Surgery, Maharashtra Chapter of IAGE, 26th September 2020

Expert Panelist, High Risk Pregnancy, Obs & Gynae Society, Nagpur, 21st September 2020

Lecture, Laparoscopy in Gynaecological Emergencies, Endoscopy Carnival, AMOGS, Endoscopy Committee, 20th September 2020

Chaired, Obs and Gynae Society, Webinar, Noida, 19th September 2020

Lecture, Laparoscopy in Gynaecological Emergencies, CME, Karnataka Chapter of IAGE, 29th August 2020

Panelist, Adnexal Mass in Adolescents, Adolescent E-Conference of FOGSI, 29th August 2020

Lecture, Endometriosis: Scope and Options for Medical Management, CME, Federation of Obs and Gynae, Kerala, 23rd August 2020

Lecture, Emergency Contraception, CME, Obs and Gynae Society, Muzaffarpur, 23rd August, 2020

Chaired, Obstetric Services in COVID Times, Obs and Gynae Society, Webinar, Nagpur, 20th August 2020

Lecture, Managing Unscheduled Bleeding on Hormonal Contraception, CME, Obs and Gynae Society, Varanasi, 19th August 2020

Lecture, Progesterones in Miscarriage, CME, Calicut and Cannanore Obs and Gyn Society, 15th August 2020

Chaired, Updates in Preterm Labour, CME, AICC RCOG East Zone, 13th August 2020

Lecture, Progesterones in Miscarriage, CME, NESOG, 9th August 2020

Moderator, Endometriosis: Lets Dissect It, CME, Thane Obs and Gyane Confeence, 9th August 2020

Lecture, Managing Miscarriage, CME, Obs and Gynae Society, Kanpur, 8th August 2020

Lecture, Endoscopy in Endometriosis: Yehi Hai Right Choice, Association of Obst and Gynae, Delhi, 26th July 2020

Chaired symposium, Foundation Day of Bengal Obs & Gynae Society, 25th July 2020

Lecture, Adnexal Torsion, Uttarakhand chapter of ISAR, 17th July 2020

Moderator, Endometriosis, Midlife Management Committee of FOGSI, 3rd July 2020

Panelist, Endometriosis, Maharashtra Chapter of IAGE, 2nd July 2020

Lecture, Impact of COVID 19 on Benign Gynaecology and MAS: Indian Perspective, RILG, London and AICC RCOG East Zone, 13th June 2020

Lecture, Laparoscopy in PCOS, Annual CME, RN Ganguly Foundation, 7th June 2020

Lecture, Resuming Services post COVID 19, Mumbai Obs and Gynae Society, 1st June 2020

Panelist, Resuming Services post COVID 19, Mumbai Obs and Gynae Society, 1st June 2020

Moderator, TLH, Global Virtual Endoscopy Summit, IAGE, 31st May 2020

Moderator, Safety and Scope of Gynae Endoscopy in Evolving COVID Era, Haryana Chapter of IAGE, 27th May 2020

Panelist, Obs and Gynae Practice and Challenges in post COVID-19 Lockdown 3.0, Medical Disorders in Pregnancy Committee, FOGSI, 20th May 2020

Moderator, The Way Forward in Gynae Endoscopy, IAGE, 5th May 2020

Lecture, Audit of Hysterectomy, E-Conference of FOGSI, 26th April 2020

Lecture, Surgical Approaches to Pain Relief in Endometriosis, Endometriosis Committee, FOGSI, 22nd April 2020

Panelist, Obs and Gynae Practice in COVID 19 Times, Medical Disorders in Pregnancy Committee, FOGSI, 16th April 2020

Panelist, Pregnancy with or without COVID-19: Dos and Don'ts, Medical Disorders in Pregnancy

Committee, FOGSI, 8th April 2020

### Professional Societies' Positions

Vice President, Indian Association of Gynaecological Endoscopists, since 2020

President, Bengal Obstetric and Gynaecological Society, since 2020

Chairperson, RCOG India East Representative Committee

Convenor, Violence Against Doctors Cell, FOGSI

Member, Guideline Development Group, IAGE Guidelines for Gynaecological Endoscopy during the COVID-19 Pandemic, since 2020

### Examinership

Clinical Examiner, MRCOG Part 3 examinations, 2020

## 221. Dr Debabrata Chakraborty

Neurology, Apollo Gleneagles Hospitals, Kolkata

### Publications

Debabrata Chakraborty, Michael D Hill, Mayank Goyal, Bijoy K Menon, Raul G Nogueira, Ryan A McTaggart, Andrew M Demchuk, Alexandre Y Poppe, Brian H Buck, Thalia S Field, Dar Dowlathshahi, Brian A van Adel, Richard H Swartz, Ruchir A Shah, Eric Sauvageau, et al Charlotte Zerna, Efficacy and safety of nerinetide for the treatment of acute ischaemic stroke (ESCAPE-NA1): a multicentre, double-blind, randomised controlled trial, The Lancet Randomized Controlled Trial, Volume 395: Issue 10227: Page 878-887, 14th March 2020

Debabrata Chakraborty, Aditya Choudhary, Abhijit Das, Sumitava Mukherjee, Neurocysticercosis: Interesting points to note!, Journal of Family Medicine and Primary Care, Volume 9: Issue 11:



Page 5811, 1st November 2020

Debabrata Chakraborty, Jayanta Roy, Pulastya Sanyal, Sadanand Dey, Are We Concerned Enough About Hyperhomocysteinemia, IP Indian Journal of Neurosciences, Volume 6: Issue 1: Page 73-75, 5th July 2020

## 222. Dr Debasis Basu

Internal Medicine, Apollo Gleneagles Hospitals, Kolkata

### Publications

Debasis Basu, Kiran Bahrus, Can the Concept of a Universal Influenza Vaccination Minimize the Severity of COVID-19?, Indian Journal of Clinical Practice, Volume 31: Issue 6: Page 516-519, November 2020

## 223. Dr Indrajeet Kumar Tiwary

Gastroenterology Critical Care, Apollo Gleneagles Hospitals, Kolkata

### Publications

Indrajeet Kumar Tiwary, Mahesh Kumar Goenka, Usha Goenka, Shivaraj Afzalpurkar, Subhash Chandra Tiwari, Rachit Agarwal, Role of static and dynamic intra-abdominal pressure monitoring in acute pancreatitis: a prospective study on its impact, pancreas, Volume 49: Issue 5: Page 663-667, May-June 2020

Indrajeet Tiwary, Mahesh Goenka, Shivaraj Afzalpurkar, Surabhi Jajodia, Bhavik Bharat Shah, Saikat Sengupta, Dual purpose easily assembled aerosol chamber designed for safe endoscopy and intubation during the COVID pandemic, Videogic, Volume 5: Issue 11: 505- 506, 2020

Indrajeet Kumar Tiwary, Avisnata Das, Mahesh Kumar Goenka, Symptomatic colitis in a patient with dengue fever: a case report, The American

Journal of Tropical Medicine and Hygiene, Volume 103: Issue 3: Page 933-934, 2020

### Awards

Best GI and Liver Tx Intensivist in Eastern India, Praxis Media Group, 2020

## 224. Dr Koushik Lahiri

Dermatology, Apollo Gleneagles Hospitals, Kolkata

### Chapters contributed to text books

Dr Koushik Lahiri, Minigrafting, Comprehensive Textbook on Vitiligo, Chapter 37.1, Editor- Vineet Relhan, Vijay Kumar Garg, Sneha Ghunawat, Khushbu Mahajan, 1st edition, CRC Press, Page 196-205, 21st September 2020

Lahiri K, Empathy and Ethos of Clinical Practice, Essentials of Practice Management in Dermatology and Plastic Surgery, Chapter 8.7, Editor- Venkatram Mysore, 1st edition, Jaypee Brothers publication, Page 238-246, 2020

### Editorial Boards Membership

Member, International Editorial Board of Journal of American Academy of Dermatology International (JAADI)

## 225. Dr Mahesh Goenka

Gastroenterology, Apollo Gleneagles Hospitals, Kolkata

### Chapters contributed to text books

Goenka MK, Endotherapy for Gastric Outlet Obstruction, Acid Peptic Disease and Beyond- An Update, Chapter Editor- V.G. Mohan Prasad, Krishers, Page 364-375, 2020

Goenka MK, Acute Diarrhea, ICU Protocols, Chapter 39, Editor- Chawla R, Todi S, 2nd Edition,

Volume 1, Springer, Singapore, Page 393-399, 2020

Goenka, MK, Changing clinical spectrum- Alcoholic related, Idiopathic or Tropical chronic pancreatitis: Chronic Pancreatitis and Pancreatitis Exocrine Insufficiency, Chapter, Editor- Philip Augustine, Kontentworx, Page 13-20, 2020

### Publications

Goenka MK, Afzalpurkar S, Rai VK, Agarwal R, Shah B, Rodge G, Raj B, Goenka U, Single-balloon enteroscopy in management of small bowel disorders, Indian J Gastroenterology, Volume 39: Issue 6: Page 550-556, December 2020

Goenka MK, Rodge GA, Mohan Ramchandani M, Shah BB, Afzalpurkar S, Raj B, Hemoclips during Motorised Spiral Enteroscopy- A unique case, Indian Journal Gastroenterology, doi: 10.1007/s12664-020-01097-w, 7th November 2020

Goenka MK, Dhoot N, Afzalpurkar S, Goenka U, Mahendra V, Khan EM, Sutradhar A, A rare peritoneal egg: case report with literature review, Radiology case reports, Volume 15: Issue 10: Page 1895, 18th August 2020

Goenka MK, Das A, Tiwary IK, Symptomatic Colitis in a patient with dengue fever- A Case Report, Am J Trop Med and Hygiene, Volume 103: Issue 3: Page 933-934, 2020

Mahesh Goenka, Shivaraj Afzalpurkar, Usha Goenka, Sudipta Sekhar Das, Mohaya Mukherjee, Surabhi Jajodia, Bhavik Bharat Shah, Vikram Uttam Patil, Gajanan Rodge, Ujjwayini Khan, Syamasis Bandyopadhyay, Seroprevalence of Covid-19 amongst healthcare workers in a tertiary care hospital of a metropolitan city from India, Journal of the Association Physicians of India, Volume 68: Issue 11: Page 14-18, November 2020

Goenka MK, Shah BB, Goenka U, Das SS, Afzalpurkar S, Mukherjee M, Patil VU, Jajodia S, Rodge GA, Khan U, Bandopadhyay S; COVID-19 prevalence among health-care workers of Gastroenterology department: An audit from a tertiary-care hospital in India, An Open Access Journal of Gastroenterology and Hepatology, Volume 5: Page 56-63, November 2020

Mahesh K Goenka, Majid A Almadi, Takao Itoi, Jong Ho Moon, Dong Wan Seo, Rungsun Rerknimitr, James Y Lau, Amit P Maydeo, Jong Kyun Lee, Nam Q Nguyen, Saad K Niaz, Randhir Sud, Tiing Leong Ang, Abdulrahman Aljebreen, Benedict M Devereaux, Rakesh Kochhar, Jörg Reichenberger, Ichiro Yasuda, Arthur J Kaffes, Masayuki Kitano, Joyce Peetermans, Pooja G Goswamy, Matthew J Rousseau, D Nageshwar Reddy, Sundeep Lakhtakia, Yun Nah Lee, Vijay Kumar Rai, Kentaro Kamada, Reina Tanaka, Ryosuke Tono-zuka, Akihiko Tsuchida, Tae Jun Song, Mohan K Ramchandani, Using Single-Operator Cholangioscopy for Endoscopic Evaluation of Indeterminate Biliary Strictures: Results From a Large Multinational Registry, Endoscopy, Volume 52: Issue 7: Page 574-582, July 2020

Goenka MK, Shah Bhavik, A comprehensive review of vaccination in patients with inflammatory bowel diseases: an Indian perspective, Indian Journal of Gastroenterology, Volume 39: Issue 4: Page 321-330, Aug 2020

Mahesh Kumar Goenka, Ioannis Pothoulakis, Pedram Paragomi, Livia Archibugi, Marie Tuft, Rupjyoti Talukdar, Rakesh Kochhar, Aiste Gulla, Vikesh K Singh, Jose A Gonzalez, Miguel Ferreira, Sorin T Barbu, Tyler Stevens, Haq Nawaz, Silvia C Gutierrez, Narcis O Zarnescu, Jeffrey Easler, Konstantinos Triantafyllou, Mario Pelaez-Luna, Shyam Thakkar, Carlos Ocampo, Enrique de-Madaria, Bechien U Wu, Gregory A Cote, Gong Tang, Georgios I Papachristou, Gabriele Capurso, Clinical Features of Hypertriglyceridemia-Induced Acute Pancreatitis in an International, Multicenter,

Prospective Cohort (APPRENTICE Consortium), Pancreatology, Volume 20: Issue 3: page 325-330, April 2020

Goenka MK, Afzalpurkar S, Ghoshal UC, Guda N, Reddy DN, Impact of COVID-19 on gastrointestinal endoscopy practice in India: a cross-sectional study, Endoscopy International open, Volume 8: Issue 7: Page E974-E979, July 2020

Goenka MK, Afzalpurkar S, Jajodia S, Bhavik S, Tiwary IK, Sangupta S, Dual purpose easily assembled aerosol chamber designed for safe endoscopy and intubation during COVID-19 pandemic, Video GIE, Volume 5: Issue 11: Page 505-506, November 2020

Mahesh K Goenka, Rupjyoti Talukdar, Ayesha Kamal, Venkata S Akshintala, Rajesh Goud, Sundeep Lakhtakia, Mohan K Ramchandani, Manu Tandan, G V Rao, Zaheer Nabi, Rajesh Gupta, Rakesh Kalapala, Jahangeer Basha, Manohar Reddy, Vijay K Rai, Saroj Sinha, Rakesh Kochhar, B Joseph Elmunzer, Mouen A Khashab, Anthony N Kalloo, Vikesh K Singh, D Nageshwar Reddy, Fluid type and volume reduce the risk of PED and length of hospital stay in high risk patients- a secondary analysis of INDIEH trial, Endoscopy International open, Volume 8: Issue 7: Page E834-E839, July 2020

Goenka MK, Goenka U, Afzalpurkar S, Tiwari SC, Agarwal R, Tiwary IK, Role of static and dynamic intra-abdominal pressure monitoring in acute pancreatitis: A prospective study on its impact, Pancreas, Volume 49: Issue 5: Page 663-667, May-June 2020

Mahesh Kumar Goenka, Bassem Matta, Amir Gougol, Xiaotian Gao, Nageshwar Reddy, Rupjyoti Talukdar, Rakesh Kochhar, Aiste Gulla, Jose A Gonzalez, Vikesh K Singh, Miguel Ferreira, Tyler Stevens, Sorin T Barbu, Haq Nawaz, Silvia C Gutierrez, Narcis O Zarnescu, Gabriele Capurso, Jeffrey Easler, Konstantinos Triantafyllou, Mario

Pelaez-Luna, Shyam Thakkar, Carlos Ocampo, Enrique de-Madaria, Gregory A Cote, Bechien U Wu, Pedram Paragomi, Ioannis Pothoulakis, Gong Tang, Georgios I Papachristou, Worldwide Variations in Demographics, Management, and Outcomes of Acute Pancreatitis, Clin Gastroenterol Hepatol, Volume 18: Issue 7: Page 1567-1575, June 2020

## Orations

Evolution of Paediatric Gastroenterology, Dr Sisir KR Bose Memorial Oration, Institute of Child Health, Kolkata, 21st November 2020

## Lectures

Talk, Fatty liver disease- what a physician should know?, Annual meeting of Family physician Association, Calcutta, 5th January 2020

Lecture, Obscure GI Bleed, North East Gastro meet, Guwahati, 1st -2nd February 2020

Lecture, Endotherapy of leaks and fistula, 27th Annual meeting of Bangladesh Gastroenterology Society in Collaboration with British Society of Gastroenterology, Dhaka, 15th February 2020

Faculty, 2nd World Endoscopy Organisation meeting, Rio, Brazil (Endo 2020), 7th -10th March 2020

Talk, Difficult Bile duct stones- how to tackle, 2nd World Endoscopy Organisation meeting, Rio, Brazil (Endo 2020), 7th -10th March 2020

Live demonstration, and imparted Hands-on training on ERCP, 2nd World Endoscopy Organisation meeting, Rio, Brazil (Endo 2020), 7th -10th March 2020

Course Director, Best of ACG' in India, Kolkata, 17th - 19th January 2020

Course Director, Best of ACG' in India, Bangalore,

17th – 19th January 2020

Course Director, Best of ACGI in India, New Delhi, 17th – 19th January 2020

Moderator, Panel discussion, Single-use accessories during midterm digital meeting of Society of Gastrointestinal Endoscopy of India, 15th -16th August 2020

Lecture, Land mark publication in small bowel Evaluation, Med India under Tamil Nadu Medical Council accreditation, August 2020

Talk, Recent advances in endoscopic management of perforation, Virtual Clinics in Hepatobiliary diseases, Gangaram Hospital, Delhi, 12th - 13th September 2020

Lecture, Post ERCP bleeding, 4th Annual Meeting Gastroenterology, PGI Chandigarh, September 2020

#### **Editorial Boards Membership**

Editor-in Chief, Journal of Digestive Endoscopy, since 2015

Editorial Board Member, Indian Journal of Gastroenterology, since 2019

Editorial Board Member, Apollo Medicine Journal, since 2017

Editor-in-Chief, Official Journal of Society of Gastrointestinal Endoscopy of India, since 2017

#### **Professional Societies' Positions**

President Elect, Indian Society of Gastroenterology, since 2020

Elected as Governor (Indian region), American College of Gastroenterology, since 2017

National Advisory Board, Society of Gastrointestinal Endoscopy of India, since 2018

Clinical Professor, Medicine (Gastroenterology), University of Wisconsin USA, since 2018

Life member, Indian Society of Gastroenterology (ISG), since 1987

Life member, Indian Association for the Study of the Liver (INASL), since 1987

Life member, Society of Gastrointestinal Endoscopy of India (SGEI), since 1987

Fellow, American Society for Gastrointestinal Endoscopy (ASGE), since 2010

Fellow, American College of Gastroenterology (ACG), since 2010

Life Member, Indian Medical Association, (IMA), since 2010

Life Member, Association of Physicians of India, since 2000

Convenor, Speciality board, National Board of Examination (Medical Gastroenterology), since 2020

#### **Member of Task Forces of Governments of India or State Governments**

Member, National Task Force for Hepatitis C and Hepatocellular cancer

#### **Examinership**

Coordinator, Medical Gastroenterology Examination, 5th September 2020

#### **Awards**

International Leadership Award, for Championing International Collaboration in GI and Hepatology, American College of Gastroenterology for contribution to Gastroenterology, 2020

## 226. Dr Mainak Malik

Plastic Surgery, Apollo Gleneagles Hospitals, Kolkata

### Publications

Mainak Malik, Saptarshi Bhattacharya, Suvadip Chakrabarti, Tapas Kumar Kar, Gopal Chandra Ghosh, Pritha Rakshit, Is pectoralis major myocutaneous flap possible in presence of an ipsilateral chest wall implanted cardiac pacemaker, Global Journal for Research Analysis, Volume 9: Issue 2: Page 93-96, February 2020

## 227. Dr Ramna Banerjee

Obstetrics and Gynaecology, Apollo Gleneagles Hospitals, Kolkata

### Publications

Ramna Banerjee, Farheen Rahman, A Rare Case of Severe Pulmonary Hypertension in Pregnancy, International Journal of Reproduction, Contraception, Obstetrics and Gynaecology, Volume 9: Issue 11: Page 4707-4709, November 2020

Ramna Banerjee, Farheen Rahman, An Interesting case of a twin pregnancy complicated with happy hypoxia, peripartum cardiomyopathy, and hemolysis, elevated liver enzymes, low platelet count syndrome during the COVID 19 pandemic situation, International Journal Of Reproduction, Contraception, Obstetrics and Gynaecology, Volume 9: Issue 12: Page 5150-5153, December 2020

### Lectures

Panelist, Breast Feeding practices, Breast Feeding Awareness Week, Bengal Obstetric and Gynaecological Society, Virtual, 6th August 2020

Judge and Chairperson, Free Paper Session, AICC RCOG E- Conclave, Virtual, 19th December 2020

## 228. Dr Saibal Moitra

Allergy and Immunology, Apollo Gleneagles Hospitals, Kolkata

### Publications

Moitra S, Krishna MT, Mahesh PA, Vedanthan PK, Mehta V, Christopher DJ, The burden of allergic diseases in the Indian subcontinent: barriers and challenges, Lancet Glob Health, Volume 8: Issue 4: Page E478-479, 2020

Moitra S, Krishna MT, Mahesh PA, Vedanthan PK, Mehta V, Christopher DJ, Pediatric allergic diseases in the Indian Subcontinent- Epidemiology, risk factors and current challenges, Pediatric Allergy and Immunology, Volume 31: Issue 7: Page 735-744, July 2020

Moitra S, Krishna MT, Mahesh PA, Vedanthan PK, Mehta V, Christopher DJ, An appraisal of allergic disorders in India and an urgent call for action, WAO J, Volume 13: Issue 7: Page 100446, 2020

Moitra S, S k Md OM, Hazra I, Datta A, Mondal S, Chaudhur S, Das PK, Basu AK, Mishra R, Chaudhuri S, Regulation of key molecules of immunological synapse by T11TS immunotherapy abrogates Cryptococcus neoformans infection in rats, Mol Immunol, Volume 122: Page 207-221, June 2020

Moitra S, Haldar P, Carsin A, Debnath S, Maity S G, Annesi-Maesano I, Garcia-Aymerich J, Bandyopadhyay A, Moitra S, Kogevinas M, Individual circadian preference (chronotype) is associated with asthma and allergic symptoms among adolescents, ERJ Open Res, Volume 6: Issue 2: Page 00226, April 2020

Moitra S, Laha A, Ghosh A, Saha I, Kumar Saha G, Bhattacharya S, Podder S, Association of the STAT6 rs3024974 (C/T) Polymorphism with IgE-Mediated Food Sensitization among West Bengal Population in India, Int Arch Allergy Immunol, Volume 181:

Issue 3: Page 200-210, 2020

Moitra S, Laha A, Sarkar T, Dey D, Mondal M, Bhattacharya S, Moitra S, Saha GK, Podder S, Assessment of hymenoptera and non-hymenoptera insect bite and sting allergy among patients of tropical region of West Bengal, India, J Med Entomol, Volume 57: Issue 1: Page 1–7, 2020

Moitra S, Samajdar SS, Sam PA, Risk Benefit Analysis in Reference to use of LMWH in COVID-19, J Assoc Physicians India, Volume 68: Issue 9: Page 52-61, 2020

Moitra S, Kishore N, Sircar M, Management of chronic obstructive pulmonary disease: Insights into patient profile– Use of inhaled corticosteroids/long-acting  $\beta$ 2-Agonists or long-acting  $\beta$ 2-agonists/long-acting muscarinic antagonists, Indian J Respir Care, Volume 9: Issue 9: Page 162-170, 7th July 2020

Moitra S, Moitra S, Ghosh AK, Reference values of impulse oscillometry (IOS) for healthy Indian adults, Int J Tuberc Lung Dis, Volume 24: Issue 5: Page 536-539, 2020

Moitra S, Haldar P, Bhattacharjee S, Maity SG, Debnath S, Moitra S, Chronotype assessment of the Bengalese adolescents: an observational study using a Bengali version of the reduced Morningness-Eveningness Questionnaire (rMEQ), Biol Rhythm Res, Volume 51: Issue 6: Page 971-979, 2020

### **Presentations**

Presentation, Food allergy diagnosis using artificial intelligence, EAACI Digital Congress, London, 2020

Presentation, Primary Immunodeficiency Diseases, ALLERGOCON, Vellore, 2020

Presentation, Drug allergy myths, Drug Allergy

Meet, Kolkata, 2020

### **Professional Societies' Positions**

Member, European Respiratory Society

Member, American Thoracic Society

Member, European Academy of Allergy and Clinical Immunology

Member, World Allergy Organisation

Member, American Academy of Allergy Asthma and Immunology

Member, Indian Chest Society

Secretary, Allergy Asthma Network of India

Member, Association of Chest Physicians (WB)

## **229. Dr Saptarshi**

Plastic Surgery, Apollo Gleneagles Hospitals, Kolkata

### **Publications**

Saptarshi Bhattacharya, Mainak Malik, Suvadip Chakrabarti, Tapas Kumar Kar, Gopal Chandra Ghosh, Pritha Rakshit, Is pectoralis major myocutaneous flap possible in presence of an ipsilateral chest wall implanted cardiac pacemaker, Global Journal for Research Analysis, Volume 9: Issue 2: Page 93-96, February 2020

## **230. Dr Shantanu Panja**

ENT, Apollo Gleneagles Hospitals, Kolkata

### **Awards**

Apollo Clinical Award, Young Clinician for their exemplary clinical services, 4th February 2020



## 231. Dr Srijita Ghosh

Radiology, Apollo Gleneagles Hospitals, Kolkata

### Chapters contributed to text books

Dr Srijita Ghosh, Basic principles of MSK imaging, Musculoskeletal radiology, Chapter 14, Editor- Dr Vemuri Naga Vara Prasad, Volume 6, Elsevier, 2020

Dr Srijita Ghosh, Rarer syndromes in MSK imaging, Musculoskeletal radiology, Chapter, Editor- Dr Vemuri Naga Vara Prasad, Volume 6, Elsevier, 2020

### Lectures

Faculty, MRI of rotator cuff, what an orthopod needs to know, IRIA ICRI MSK symposium, Webinar, 26th July 2020

Faculty, Metabolic, Hematopoietic, Endocrine disorders of bone- case based review, Online National Resident Programme IREPONLINE, Delhi, 10th October 2020

### Awards

Appreciation Award, Sincere contributions towards academic activities of IRIA in the year, Indian radiological and Imaging Association, 2020

## 232. Dr Srinjoy Saha

Plastic Surgery, Apollo Gleneagles Hospitals, Kolkata

### Publications

Srinjoy Saha, Triple-Plane Dissection of Combined Forehead and Scalp Flaps for Large Posttraumatic Forehead Defects, International Journal of Recent Surgical and Medical Sciences, Volume 6: Issue 1: Page 24-29, 2020

Srinjoy Saha, Augmented facelift flap for aesthetic reconstruction of posttraumatic facial defects, Journal of Medical and Scientific Research, Volume 8: Issue 2: Page 40-46, April - June 2020

Srinjoy Saha, Ulcerative anal cancer masquerading as a chronic sacral sore, World J Med Images Videos Cases, Volume 6: Page e34-36, September 2020

Srinjoy Saha, A rare presentation of superficial, inter-muscular, cystic, extra-spinal schwannoma over upper back. Neurologico Spinale Medico Chirurgico, Volume 3: Issue 3: Page 103-106, 2020

## 233. Dr Suddhasatwya Chatterjee

Internal Medicine and Rheumatology, Apollo Gleneagles Hospitals, Kolkata

### Publications

Meghna Dutta, Suddhasatwya Chatterjee, An uncommon twist to a common event – Isolated enteric splenic infarcts and abscesses, Eastern J Medical Sciences, Volume 5: Issue 1: Page 22 – 24, January - March 2020

## 234. Dr Sudipta Sekhar Das

Transfusion Medicine, Apollo Gleneagles Hospitals, Kolkata

### Publications

Das SS, Agarwal V, Rationalizing blood transfusion in elective breast cancer surgery: Analysing justification and economy, Asian J Transfus Sci, Volume 14: Issue 1: Page 39-43, January- June 2020

Sudipta Sekhar Das, Subrata Sen, R U Zaman, Rathindra Nath Biswas, Plateletpheresis in the era of automation: optimizing donor safety and product quality using modern apheresis instruments, Indian J Hematol Blood Transfus, Volume 37: Issue 1: Page 134-139, 16th August 2020

Sudipta Sekhar Das, Anupam Chakrapani, Soumya Bhattacharya, Immunohematological characterization of direct antiglobulin test-negative

autoimmune hemolytic anemia through simple, sensitive methods: Experience from a tertiary care hospital in India, *Global journal of Transfusion Medicine*, Volume 5: Issue 2: Page 197-201, 2020

Sudipta Sekhar Das, Rathindra Nath Biswas, Mahammad Safi, Rafique Uz Zaman, Serological evaluation and differentiation of subgroups of “A” and “AB” in healthy blood donor population in Eastern India, *Global journal of Transfusion Medicine*, Volume 5: Issue 2: Page 192-196, 2020

Sudipta Sekhar Das, Rathindra Nath Biswas, Rafique Uz Zaman, An insight into the encountered challenges and performances of a hospital-based blood transfusion service in Eastern India in the light of COVID-19 pandemic, *Global journal of Transfusion Medicine*, Volume 5: Issue 2: Page 163-168, 2020

Das SS, Goenka MK, Afzalpurkar S, Goenka U, Mukherjee M, Jajodia S, Shah BB, Patil VU, Rodge G, Khan U, Bandyopadhyay S, Seroprevalence of coronavirus disease-19 among health care workers in a tertiary care hospital of a metropolitan city from India. *Journal of the Association of Physicians of India*, Volume 68: Issue 11: Page 14-19, November 2020

Sudipto S Das, Mahesh Kumar Goenka, Bhavik Bharat Shah, Usha Goenka, Shivaraj Afzalpurkar, Mohuya Mukherjee, Vikram U Patil, Surabhi Jajodia, Gajanan Ashokrao Rodge, Ujjaini Khan, Syamasis Bandyopadhyay, COVID-19 prevalence among health-care workers of Gastroenterology department: An audit from a tertiary-care hospital in India, Volume 5: Issue 1: Page 56-63, 9th November 2020

## Lectures

Speaker, Challenges in Immunohematology in Blood Transfusion Service, National conference of Indian Society of Transfusion Medicine, Mumbai, 7th -9th January 2020,

Speaker, Challenges of RBC transfusion in multi-transfused patient, Regional conference of Bengal Society of Hematology, Kolkata, 14th February 2020

Speaker, Clinical and serological characterization of AIHA, Webinar, Indian Society of Transfusion Medicine, 24th April 2020

Speaker, Quality Management Systems in Blood Transfusion services, Webinar, Roche Molecular Diagnostics, USA, 26th June 2020

Chairperson, Various sessions in the National conference of Indian Society of Transfusion Medicine, Mumbai, 7th -9th January 2020

Chairperson, Advances in Transfusion Medicine, Regional conference of Bengal Society of Hematology, Kolkata, 14th February 2020

## Editorial Boards Membership

Reviewer, International Editorial board, IBIMA publishing, USA, since January 2013

Reviewer, Asian journal of Transfusion Science, India, since June 2012

Reviewer, Journal of Blood transfusion, USA, since February 2013

Reviewer, International Journal of case reports in medicine, since August 2013

Reviewer, Indian Journal of Hematology and blood transfusion, since June 2014

Reviewer, Saudi Medical Journal, since August 2014

Reviewer, Journal of Hematology Blood Transfusion and Disorders, since 2015

Reviewer, Clinical Chemistry and Laboratory Medicine, since 2016

Reviewer, Global Journal of Transfusion Medicine since 2018

### Professional Societies' Positions

Lifetime member, The Indian Society of Blood Transfusion and Immunohematology (ISBTI), since 2003

Lifetime member, The Indian Society of Haematology and Transfusion Medicine (ISHTM), since 2003

Lifetime member, The Indian Society of Transfusion Medicine, since 2010

Lifetime member, The South Asian Association of Transfusion Medicine (SAATM), since 2012

Member, Global Association of Physicians of Indian Origin (GAPIO), since 2012

Member, The International Society of Blood Transfusion (ISBT)

Joint secretary, Indian Society of Transfusion Medicine

Secretary General, Bengal Society of Transfusion Medicine

Convenor, Special Interest Group – Immunohematology, Indian Society of Transfusion Medicine

### Member of task forces of Government of India or State Governments

External resource person, Transfusion Medicine, National AIDS control organization, Government of India

Technical expert, Transfusion Medicine & Blood banking, Government of West Bengal

Technical expert, Transfusion Medicine & Blood banking, Government of Odisha and Government of Jharkhand

Member, secretary of Eastern India, National hemovigilance program, Government Of India

Core Member, Technical Committee, Cord Blood Banking Government of West Bengal

NABH assessor, Blood Banks, Quality control of India

### Awards

Apollo Young Researcher Award, Apollo Hospitals, Chennai, 5th February 2020

Apollo Certificate of Honour, Apollo Hospitals, Kolkata, 19th November 2020

### 235. Dr Surabhi Jajodia

Imaging and Interventional Radiology, Apollo Gleneagles Hospitals, Kolkata

### Publications

Jajodia S, Dhoot NM, Goenka U, Ghosh S, Assigning computed tomography involvement score in Covid-19: prognosis prediction and impact on management, British Journal of Radiology Open, Volume 2: Issue 1: Page 20200024, 19 August 2020

Jajodia S, Goenka MK, Afzalpurkar S, Goenka U, Das SS, Mukherjee M, Shah BB, Patil VU, Rodge G, Khan U, Bandyopadhyay S, Seroprevalence of coronavirus disease-19 among health care workers in a tertiary care hospital of a metropolitan city from India. Journal of the Association of Physicians of India, Volume 68: Issue 11: Page 14-19, November 2020

Surabhi Jajodia, Mahesh Kumar Goenka, Bhavik Bharat Shah, Usha Goenka, Sudipto S Das, Shivaraj Afzalpurkar, Mohuya Mukherjee, Vikram U Patil, Gajanan Ashokrao Rodge, Ujjaini Khan, Syamasis Bandyopadhyay, COVID-19 prevalence among health-care workers of Gastroenterology department: An audit from a tertiary-care hospital in India, Volume 5: Issue 1: Page 56-63, 9th

November 2020

Jajodia S, Goenka MK, Afzalpurkar S, Bhavik S, Tiwary IK, Sangupta S, Dual purpose easily assembled aerosol chamber designed for safe endoscopy and intubation during COVID-19 pandemic, Video GIE, Volume 5: Issue 11: Page 505–506, November 2020

### **Lectures**

Lecture, Radiological Interventions in Urogenital tract, Annual meeting of Indian Radiological and Imaging Association (West Bengal), 6th December 2020

### **Professional Societies' Positions**

Member, American College of Gastroenterology, since 2020

Life member, Indian Radiological and Imaging Association (IRIA), since 2014

Life member, Indian Society of Vascular and Interventional Radiology, since 2019

## **236. Dr Surajit Gorai**

Dermatology, Apollo Gleneagles Hospitals, Kolkata

### **Book Published**

Editor- Dr Surajit Gorai, Postgraduate Dermatology, Jaypee Brother publications, 2020

### **Chapters contributed to text books**

Dr Surajit Gorai, Pigmentary disorder of vulva, Aesthetic and Regenerative Gynecology, Editor- Dr Priti Jindal, 1st edition, Springer Nature, 2020

Dr Surajit Gorai, Diagnosis of urticaria, Urticaria and Urticarial Disorders, Chapter 12, Editor- Dr Rashmi Sarkar, 1st edition, Kontentworx, Page 45-53, February 2020

Dr Surajit Gorai, Empathy and ethos of clinical practice, Handbook of dermatology Clinical

Practice, Chapter 8.7, Editor- Dr Venkatraman Mysore, 1st edition, Jaypee Brother publications, Page 238-246, 2020

Dr Surajit Gorai, Topical retinoids in dermatology, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, SLE - Systemic Lupus Erythematosus and other related disorders, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Basic immunology in relation to skin, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Basic genetics in dermatology, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Necrobiotic disorders in dermatology, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Clinical features in dermatology, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Skin changes in endocrine disorders, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Skin signs of abuse, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Teledermatology, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Vascular tumor, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Seborrheic dermatitis, Postgraduate Dermatology, Jaypee Brother publications, 2020

Dr Surajit Gorai, Bites and strings, Postgraduate

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| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
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Dermatology, Jaypee Brother publications, 2020

### Publications

Surajit Gorai, Sandipan Dhar, Swetlina Pradhan, Subhra Dhar, Sahana Srinivas, Child with infiltrated erythematous plaque on face, mother having similar lesion, International Society of Pediatric Dermatology Journal, case 13, September 2020

### Lectures

Talk, How to handle the hurdle of managing Palmo Plantar Psoriasis, National conference Dermacon, Germany, 1st – 3rd February 2020

Talk, My mentorship experience under Prof Thomas Ruzicka, LMU, National conference Dermacon Munich, Germany, 1st – 3rd February 2020

Panelist, Use of immunosuppressive during COVID, E conference on clinical practice during COVID19, Kolkata, 28th April 2020

Moderator, Psychocutaneous diseases in dermatology, National meeting of Psychodermatology Society of India, Kolkata, 15th June 2020

Panelist, Dermatophytosis the challenge in achieving mycological cure, e-CME on Clinical dermatology, Kolkata, 21st June 2020

Panelist, IADVL PRP TASK FORCE First discussion, IADVL PRP Task Force Meet, Kolkata, 19th July 2020

Speaker, Recent advances on acne management, Pan India Acne summit, Kolkata, 26th July 2020

Panelist, Recent advances on acne management, Pan India Acne summit, Kolkata, 26th July 2020

Moderator, e-PRP in Androgenic alopecia, Workshop, IADVL PRP Task Force Meet, National

pan India, Kolkata, 13th September 2020

Speaker, Androgenic alopecia and its latest management, Regional e meeting, Kolkata, 3rd October 2020

Speaker, Challenging cases in dermatology–Vitartha, National (pan India e-Conference), Kolkata, 8th November 2020

Panelist, Challenging cases in dermatology–Vitartha, National (pan India e-Conference), Kolkata, 8th November 2020

### Editorial Boards Membership

Reviewer, Indian Journal of Dermatology, since 2020

### Professional Societies' Positions

Member, IADVL YUVA Cell of India, since 2020

### Member of task forces of Government of India or State Governments

Member, IADVL PRP task force of India (Indian Association of Dermatologist, Venereologists and Leprologist)

## 237. Dr Suvadip Chakrabarti

Surgical Oncology, Apollo Gleneagles Hospitals, Kolkata

### Editorial Boards Membership

Editorial board Member, Advances in Morden Oncology Research, 2015

Editorial board Member, Current Updates in Surgical Oncology, 2017

### Professional Societies' Positions

Lifetime member, Association of Surgeons of India, since 2010

Lifetime member, Indian Association of Surgical Oncologists, since 2013

Lifetime member, Foundation of Head and Neck Oncology, since 2012

Lifetime member, Teenage and Young Adult Cancer Foundation, since 2016

Lifetime member, Association of Breast Surgeons of India, since 2016

Lifetime member, Indian Society of Peritoneal Surface Malignancies, since 2016

Lifetime member, Oncological Society of Bengal, since 2019

Lifetime member, Indian Medical Association, since 2017

### 238. Dr Suvro Banerjee

Cardiology, Apollo Gleneagles Hospitals, Kolkata

#### Publications

Suvro Banerjee, Saumitra Ray, Non-vitamin K Oral Anticoagulant prescription for stroke prevention in atrial fibrillation: Perceptions among physicians in a metropolis, Journal of the Indian Medical Association, Volume 118: Issue 9, September 2020

Suvro Banerjee, Suchit Majumdar, Arindam Chatterjee, A patient with atrioventricular block and ventricular tachycardia: think sarcoid!, J R Coll Physicians Edinb, Volume 50: Issue 3: Page 284-286, September 2020

#### Awards

Apollo Clinical Award, Distinguished Researcher for exemplary services in research, 4th February 2020

### 239. Dr Usha Goenka

Imaging and Interventional Radiology, Apollo Gleneagles Hospitals, Kolkata

#### Chapters contributed to text books

Usha Goenka, Endotherapy for Gastric Outlet Obstruction, Acid Peptic Disease and Beyond- An Update, Chapter Editor- V.G. Mohan Prasad, Krishers, Page 364-375, 2020

#### Publications

Goenka U, Dhoot N, Afzalpurkar S, Mahendra V, Khan EM, Sutradhar A, A rare peritoneal egg: case report with literature review, Radiology case reports, Volume 15: Issue 10: Page 1895, 18th August 2020

Goenka U, Goenka MK, Afzalpurkar S, Das SS, Mukherjee M, Jajodia S, Shah BB, Patil VU, Rodge G, Khan U, Bandyopadhyay S, Seroprevalence of Coronavirus disease-19 among health care workers in a tertiary care hospital of a metropolitan city from India. Journal of the Association of Physicians of India, Volume 68: Issue 11: Page 14-19, November 2020

Usha Goenka, Mahesh Kumar Goenka, Bhavik Bharat Shah, Sudipto S Das, Shivaraj Afzalpurkar, Mohaya Mukherjee, Vikram U Patil, Surabhi Jajodia, Gajanan Ashokrao Rodge, Ujjaini Khan, Syamasis Bandopadhyay, COVID-19 prevalence among health-care workers of Gastroenterology department: An audit from a tertiary-care hospital in India, Volume 5: Issue 1: Page 56-63, 9th November 2020

Goenka U, Goenka MK, Afzalpurkar S, Tiwari SC, Agarwal R, Tiwary IK, Role of static and dynamic intra-abdominal pressure monitoring in acute pancreatitis: A prospective study on its impact, Pancreas, Volume 49: Issue 5: Page 663-667, May-June 2020

Goenka U, Ghosh S, Dhoot NM, Aggressive vertebral hemangioma presenting in post partum period: a case report, Indian Journal of Case reports, Volume 6: Issue 3, Page 123-125, March 2020



## Lectures

Guest lecture, Role of Interventional Radiology in GI diseases, North East Gastro meet, Guwahati, 1st -2nd February 2020

Guest lecture, Acute Pancreatitis, Annual meeting and World Endoscopy Organisation, Brazil, March 2020

Guest lecture, Role of Interventional Radiology in GI diseases, 27th Annual meeting of Bangladesh Gastroenterology Society in Collaboration with British Society of Gastroenterology, Dhaka, 15th February 2020

Guest lecture, Acute Pancreatitis, Annual meeting of West Bengal Chapter of Indian Radiological Imaging association (IRIA), Kolkata, November 2020

Panelist, Acute Pancreatitis, Midterm meeting of Society of Gastrointestinal Endoscopy of India, 15th – 16th August 2020

## Editorial Boards Membership

Editorial Board Member, Journal of Digestive endoscopy, Official Journal of Society of Gastrointestinal Endoscopy of India, since 2019

## Professional Societies' Positions

Fellow, American College of Gastroenterology, since 2020

Life Member, Indian Radiological and Imaging Association (IRIA), since 2010

Life Member, Indian Society of Neuroradiology (ISNR), since 2012

Life Member, Indian Medical Association (IMA), since 1998

Life Member, Indian Society of Vascular and Interventional Radiology, since 2012

## Examinership

Examiner, DNB Radiology, Kolkata, 2020

## Lucknow

### 240. Dr Kashi Nath Prasad

Microbiology, Apollomedics Superspeciality Hospitals, Lucknow

## Publications

Prasad KN, Gupta V, Singh M, Datta P, Goel A, Singh S, Chander J, Detection of various beta-lactamases in Escherichia coli and Klebsiella sp: a study from tertiary care centre of North India, Indian J Med Microbiol, Volume 38: Issue 4: Page 390-396, December 2020

Prasad, KN, Editorial, Helicobacter pylori and its interaction with gastric microbiota and host genetics in gastric cancer, J Gastrointest Infect, Volume 10: Issue 1: Page 1-2, December 2020

## Orations

Lecture, My experience on Taeniasis and Neurocysticercosis, SC Parija Oration, 14th National Conference of Indian Academy of Tropical Parasitology, Chennai, 28th December 2020

## Lectures

Lecture, Emerging Zoonotic Helminthic Infection; Dirofilaria, 14th National Conference of Indian Academy of Tropical Parasitology, Chennai, 29th December 2020

## Examinership

Examiner, PhD examination, Manipal Academy of Higher Education, Karnataka, 9th September 2020

## Awards

SC Parija Oration Award, 14th National Conference of Indian Academy of Tropical Parasitology, Chennai, 28th - 29th December 2020

### 241. Dr R C Ahuja

Internal Medicine, Apollomedics Superspeciality Hospitals, Lucknow

#### Awards

Lifetime Achievement Award, for Valuable Contribution in Health Care at 16th Convocation Ceremony, King Georges Medical University, Lucknow, 21st December 2020

### Madurai

### 242. Dr John Benny

Orthopaedics, Apollo Speciality Hospital, Madurai

#### Lectures

Organised workshop, Preseason Match Fitness, Tamil Nadu State Police Athletes, 14th October 2020

Organised workshop, Volleyball Skills and Drills, Tamil Nadu Special Forces State Team, 17th November 2020

#### Professional Societies' Positions

Life Member, Indian Orthopaedic Association, since 16th December 2016

Life Member, Tamil Nadu Orthopaedic Association, since 18th May 2016

Life Member, Pondicherry Orthopaedic Association, since 3rd January 2015

### 243. Dr P Soundararajan

Nephrology, Apollo Speciality Hospital, Madurai

#### Awards

Dronacharya Award, Nephrology teaching experience for 35 yrs, AVTAR, 2020

### 244. Dr Shyam D

Neurosurgery, Apollo Speciality Hospital, Madurai

#### Professional Societies' Positions

Life Member, Neurological Society of India, since 2014

International Member, Congress of Neurological Surgeons, since 2014

International Member, American Association of Neurological Surgeons, since 2015

International Member, AANS/CNS Cerebrovascular Section, since 2016

International Member, AANS/CNS Section on Pediatric Neurological Surgery, since 2016

Life Member, Neurological Surgeons Society of India, since 2016

Individual Member, European Association of Neurosurgical Societies (EANS), since 2016

Member, Of Spine, since 2018

Life Member, Neuroendoscopy Society of India, since 2019

#### Awards

Fellowship, American College of Surgeons (FACS), 2020

### Mysore

### 245. Dr Aathira Ravindranath

Pediatric Gastroenterology, Apollo BGS Hospitals, Mysore

#### Chapters contributed to text books

Dr Aathira Ravindranath, Acute cholangitis and cholecystitis in children, Evidence based practice in management of infectious diseases in pediatrics,

Editor- V Yewale, S Prabhu, W Rose, 1st edition, Evangel Publication, 2020

### Publications

Aathira Ravindranath, Moinak Sen Sarma, Dimple Jain, Melena in Neonates: Endoscopic Surprise, Gastroenterology, Volume 159: Issue 6: Page e3-e4, December 2020

Aathira Ravindranath, Chronic vomiting in children: Etiology, diagnosis, and management, Indian J Gastroenterol, Volume 39: Issue 2: Page 117-122, April 2020

Aathira Ravindranath, Moinak Sen Sarma, Vinita Agrawal, A Bite of Truth Through the Teeth, Gastroenterology, Volume 159: Issue 3: Page e7-e8, September 2020

Aathira Ravindranath, Moinak Sen Sarma, Portal Cavernoma Cholangiopathy in Children and the Management Dilemmas, J Clin Transl Hepatol, Volume 8: Issue 1: Page 61-68, 28th March 2020

### Editorial Boards Membership

Reviewer, Indian Journal of Gastroenterology, since December 2019

Reviewer, Journal of Clinical and translational hepatology, since October 2019

Reviewer, Indian Journal of Paediatric, since 2020

Reviewer, Clinical Case Reports, since July 2020

Reviewer, World Journal of Surgical Oncology, since September 2020

### 246. Dr Jayanth B N

General Surgery, Apollo BGS Hospital, Mysore

### Publications

Jayanth Bannur Nagaraja, Suhas Umakanth, Srinath Subbarayappa, Derotation Gastropexy for a case of chronic mesentericoaxial gastric volvulus - Case

Report, Apollo Medicine journal, Volume 16: Issue 2: Page 118-121, 19th June 2020

Jayanth Bannur Nagaraja, Shashank Saraf, Nairuthya Shivathirthan, S Srinath, Laparoscopic management of rapunzanel syndrome, Apollo Medicine Journal, Volume 16: Issue 2: Page 103-104, 19th June 2020

Jayanth BN, A case series of Recurrent Ectopic Gestations J, Evid based medheal TH, Volume 3: Issue 32: Page, 2020

Dr Jayanth BN, Dr Milan Joshi, Dr Srinath S, Retrospective and Prospective study of surgical site infection, associated risk factors wounds, International journal of surgery science, Volume 4: Issue 2: Page 245-249, 2020

Jayanth Bannur Nagaraja, Shaik Mohammed Waseem, Nairuthya Shivathirthan, Laparoscopic management of congenital splenic cyst with intra cystic bleed, Apollo medicine Journal, Volume 17: Issue 4: Page 289-291, 28th December 2020

Jayanth Bannur Nagaraja, Shaik Mohammed Waseem, Srinath Subbarayappa, A rare presentation of Supraclavicular schwannoma, Indian Journal of Case Reports, Volume 6: Issue 11: Page 612-614, November 2020

### Presentations

Poster presentation, Hernia Carnival, KSCASICON, Chennai, March 2020

### 247. Dr Raghavendra M

Urology and Renal Transplantation, Apollo BGS Hospital, Mysore

### Lectures

Chairperson, USICON Annual Meeting, Kochi, 23rd -26th January 2020

### Editorial Boards Membership

Reviewer, American Journal and Case reports,

Since 2020

Reviewer, BMJ Case report, since 2016

Reviewer Urologia Internationals, since 2015

Reviewer Medicine Science Monitor, since 2020

Editorial Board Member, Indian Journal of Urology, since 2015

Editorial Board Member, Apollo Medical Journal, since 2019

### **Professional Societies' Positions**

Member, Urological Society of India, since 2002

Member, NZ- Urological Society of India, since 2001

Member, Indian Medical Association, since 2004

Member, SZ- Urological Society of India, since 2004

## **248. Dr Rajkumar P Wadhwa**

Gastroenterology, Apollo BGS Hospital, Mysore

### **Lectures**

Expert panel, NAFLD summit, 5th July 2020

Lecture, Mixed bacterial infections of GI tract, Pan African Webinar, 8th July 2020

Panelist, Endoscopy section for best of DDW webinar, 17th January 2020

Lecture, Management of pancreatic cyst, EUS meeting, Mumbai, 26th -27th January 2020

Panelist, Endoscopy section, Best of DDW webinar, 17th -18th July 2020

Lecture, ERCP in altered anatomy: Double Balloon endoscopy, Basic tenets of new generation endoscopy: A multinational webinar involving

faculty from Japan and Singapore, 23rd July 2020

Moderate and Panelist, Third space endoscopy webinar, 7th - 8th August 2020

Panelist, Status of small bowel endoscopy, SGEI Mid term webinar, 15th -16th August 2020

Lecture, Trouble shooting in cystogastrostomy, 11th International workshop on EUS and EBUS, September 2020

Panelist, Discussion on Recurrent Acute Pancreatitis, Virtual clinics in Hepato Biliary Disease, 12th September 2020

Lecture, Mediastinal adenopathy and Anatomy of Pancreas, EUS days, International webinar Endoscopic ultrasound, 19th September 2020

Lecture, Optimization of endoscopic ultrasound, webinar, 24th September 2020

Lecture, Trouble shooting in Cystogastrostomy in gastroenterology, 11th International workshop on EUS and EBUS, 26th September 2020

Lecture, Massive lower GI bleed, 4th Update on GI Emergencies, Post Graduate Institute (PGI) Chandigarh, 31st October- 1st November 2020

As judge, Endoscopy video forum, ISG National conference, 20th December 2020

### **Professional Societies' Positions**

Secretary, Karnataka Chapter of Indian Society of Gastroenterology, since 2015

## **249. Dr Sanjeeva Rao Girimaji**

General Medicine, Apollo BGS Hospitals, Mysore

### **Professional Societies' Positions**

Life Member, Geriatric Society of India

Life Member, RSSDI

Member, American Diabetic Association

Member, American College of Physician

## 250. Dr Shiva Prasad B N

Rheumatology, Apollo BGS Hospital, Mysore

### Publications

BN Shiva Prasad, HA Karthik Urala, Spondylodiscitis in ankylosing spondylitis: Andersson lesion, Indian Journal of Rheumatology, Volume 15: Issue 3: Page 247-248, 3rd September 2020

Shiva Prasad, Ramaswamy Subramanian, Management of ankylosing spondylitis; present concepts and guidelines, APIK Journal of Internal Medicine, Volume 8: Issue 3: Page 107-113, 15th July 2020

### Editorial Boards Membership

Reviewer, Indian Journal of Rheumatology

### Professional Societies' Position

Member, Association of Physicians of India

Member, Indian Medical Association

Executive Member, Indian Rheumatology Association, Karnataka Chapter

## 251. Dr Satish H V

Plastic Surgery, Apollo BGS Hospital, Mysore

### Editorial Boards Membership

Member, National Editorial Board, Indian Journal of Cleft Lip and Palate, since December 2020

## 252. Dr Vijay H V

Radiology, Apollo BGS Hospital, Mysore

### Lectures

Lecture, Imaging in Arthropathy, State IRIA,

Karnataka, 2020

Lecture, Imaging in RA and Gout, Musculo skeletal ultra sound society, 2020

Lecture, High resolution ultrasound in Rheumatic disorder, Sonocon by National IRIA, 2020

Lecture, HRCT finding in COVID, Radiology and imaging summit elets media, 2020

### Editorial Boards Membership

Editorial Board Member, Indian Journal of Urology

Editorial Board Member, Apollo Medical Journal

## Nashik

## 253. Dr Mohan Patel

Nephrology and Transplant, Apollo Hospitals, Nashik

### Publications

Patel MP, Kute VB, Prasad N, Agarwal SK, COVID 19 and hemodialysis anxiety, Indian J Nephrol, Volume 30: Issue 3: Page 174-175, 2020

Patel MP, Kute VB, Agarwal SK, Infodemic of COVID 19: More pandemic than the virus, Indian J Nephrol, Volume 30: Issue 3: Page 188-191, June 2020

## Navi Mumbai

## 254. Dr Amey Sonavane

Gastroenterology, Apollo Hospitals, Navi Mumbai

### Chapters contributed to text books

Dr Amey Sonavane, Non-alcoholic fatty liver disease and liver transplantation, GI Clinical Updates, Non Alcoholic Fatty Liver Disease, Issue 1, Editor - Akash Shukla, 1st Edition, Kontentworx publisher, Page 107-120, 2020

Dr Amey Sonavane, Liver transplantation and hepatic encephalopathy, Hepatic Encephalopathy Updates, 1st Edition, Kontentworx publisher, Page 76-85, 2020

## Publications

Amey Sonavane, Vikram Raut, Ketul Shah, Amruth Raj C, Ashok Thorat, Ambreen Sawant, Harshit Chaksota, Ameet Mandot, Suresh Vasanth, Aabha Nagral, Darius Mirza, Successful liver transplantation immediately after recovery from COVID-19 in a highly endemic area, Transplant International, Volume 34: Page 376-377, 30th November 2020

Amey Sonavane, Vikram Raut, Shaji Marar, Ambreen Sawant, Ketul Shah, Amruth Raj, Ashok Thorat, Harshit Chaksota, Abhijit Bagde, Rahul Verma, Dhanya Dharmapalan, Suresh Vasanth, Aabha Nagral, Darius Mirza, Vijay Yewale, Preoperative successful thrombectomy and thrombolysis of acute extensive splanchnic venous system and TIPSS thrombosis in a child with Budd-Chiari syndrome-Creating a window to enable living donor liver transplantation, Pediatric Transplantation, DOI: 10.1111/petr.13857, 24th November 2020

Amey D. Sonavane, Deepak Gupta, Tushar Parmar, Suvadeep Sen, Balakrishna Nimavat, Asawari Ambekar, Aabha Nagral, Typhoid ulcer related massive gastrointestinal bleeding successfully treated with endoscopic therapy, The Egyptian Journal of Internal Medicine, Volume 32: Issue 1: Page 1-4, 2020

Amey Dilip Sonavane, Ketul Shah, Vikram Raut, Ashok Thorat, C Amruth Raj, Asawari Ambekar, Tushar Parmar, Suvadeep Sen, Ambreen Sawant, Harshit Chaksota, Suresh Vasanth, Aabha Nagral, Darius Mirza, Splenic peliosis and spontaneous splenic rupture: A rare complication following liver transplantation, Indian Journal of Transplantation, Volume 14: Issue 2: Page 172-174, 2020

Sonavane AD, Bagde A, Raut V, Marar S, Sawant A, Shah K, Raj A, Thorat A, Chaksota H, Biradar V, Vasanth S, Nagral A, Mirza D, Therapeutic coil embolization of dominant shunt in hepatopulmonary syndrome enhances post-liver transplant respiratory recovery, Pediatric Transplantation, Volume 24: Issue 6: Page e13729, 21st May 2020

Amey Sonavane, Narendra S Choudhary, Neeraj Saraf, Sanjiv Saigal, Amit Rastogi, Prashant Bhangui, Srinivasan Thiagrajan, Sanjay K Yadav, Sujeet Saha, Arvinder S Soin, Poor performance status predicts mortality after living donor liver transplantation, Journal of Clinical and Experimental Hepatology, Volume 10: Issue 1: Page 37-42, January 2020

Amey Dilip Sonavane, Saigal Sanjiv, Sood Nitin, Abhishek Kathuria, Chaudhary Narendra, A Rare Case of Budd-Chiari Syndrome Secondary to Paroxysmal Nocturnal Hemoglobinuria: Salvaged with TIPSS, Tropical gastroenterology: Official Journal of the Digestive Diseases Foundation, Volume 40: Issue 2: Page 293-309, July 2020

## Lectures

Lecture, Pre-operative successful thrombectomy and thrombolysis of acute extensive splanchnic venous system and TIPSS thrombosis in a child with Budd Chiari syndrome – creating a window to enable living donor liver transplantation, ISGCON, Virtual, 19th – 20th December 2020

Lecture, COVID 19 presenting with direct hyperbilirubinemia and multi-organ failure, ISGCON, Virtual, 19th – 20th December 2020

Lecture, Outcome of wait-listed recipients without the option for living donor liver transplantation at a newly established tertiary care liver transplant centre in Western India, ISGCON, Virtual, 19th – 20th December 2020



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## 255. Dr Bhumika Madhav

Pulmonology, Apollo Hospitals, Navi Mumbai

### Presentations

Poster presentation, Study of Likelihood of Infection with COVID 19 based on source of exposure to infection among hospital staff, NAPCON 2020, 15th December 2020

Poster presentation, Unusual foreign body with a bizarre entry path, NAPCON 2020, 15th December 2020

### Awards

Best Poster Award, Unusual foreign body with a bizarre entry path, Category- Interventional Pulmonology, NAPCON 2020, 15th December 2020

## 256. Dr Bindhu

Obstetric and Gynaecology, Apollo Hospitals, Navi Mumbai

### Awards

Poster presentation, Second prize, International conference on Just Tumors, December 2020

## 257. Dr Dhanya Dharmapalan

Paediatric Infectious Disease, Apollo Hospitals, Navi Mumbai

### Book Published

Chief Academic editor- Dr Dhanya Dharmapalan, Polio: The Eradication Imbroglio: The Malady and its Remedy, Notion Press, 2020

### Publications

Dhanya Dharmapalan, Jeetendra Bhagwatrao Gavhane, Utility of WhatsApp media to promote judicious use of antimicrobials in resource-limited settings, Indian J Child Health, Volume 7: Issue 10: Page 412-414, October 2020

### Lectures

Talk, Neonatal Sepsis, Universal Children day, WHO, 20th November 2020

### Professional Societies' Positions

Member, Policy statement, American Academy of Paediatrics on Antibiotic Stewardship program, since 2020

National coordinator, Anti-Microbial Stewardship for the Apollo Group, since 2020

### Awards

Fellowship, Indian academy of paediatrics for outstanding work in Paediatrics, November 2020

## 258. Dr Jayalakshmi T K

Pulmonary Medicine, Apollo Hospitals, Navi Mumbai

### Presentations

Poster presentation, Study of Likelihood of Infection with COVID 19 based on source of exposure to infection among hospital staff, NAPCON 2020, 15th December 2020

Poster presentation, Unusual foreign body with a bizarre entry path, NAPCON 2020, 15th December 2020

### Awards

Best Poster Award, Study of Likelihood of Infection with COVID 19 based on source of exposure to infection among hospital staff, Category- COVID 19, NAPCON 2020, 15th December 2020

## 259. Dr Kiran Godse

Dermatology, Apollo Hospitals, Navi Mumbai

### Book Published

Editor- Dr Kiran Godse, Atopic Dermatitis and Pruritus- Interesting Cases, 1st edition, Jaypee- The Health Science Publisher, 2020

## 260. Dr Laxman G Jessani

Infectious Disease, Apollo Hospitals, Navi Mumbai

### Publications

Laxman G Jessani, Suboptimal Adherence and Associated Factors Contributing to Virological Failure on First Line ART at a Private Tertiary Care Centre in South India: Implications for Individualized Adherence Interventions in Resource-limited Settings, *Acta Scientific Microbiology*, Volume 3: Issue 10: Page 42-52, 10th October 2020

### Awards

Apollo Clinical Award, Young Academician for their exemplary services in academics, 4th February 2020

## 261. Dr Mishil Parikh

Ortho Oncology, Apollo Hospitals, Navi Mumbai

### Awards

Young Scientist Award, International Scientist Award, VDGGOOD Technology, September 2020

## 262. Dr Rahul Gupta

Cardiology, Apollo Hospitals, Navi Mumbai

### Lectures

Faculty, title of lecture, Joint Interventional meeting, Italy, 2020

### Presentations

Presentation, Joint Interventional meeting, Italy, 2020

### Awards

Best Case Award, LM Trifurcation in HBR patient- Too much to handle, Interventional grand rounds in scientific session (Virtual), New York USA, 2020

## 263. Dr Sachin P Sanagar

CTVS, Apollo Hospitals, Navi Mumbai

### Publications

Sachin Sanagar, Shantesh Kaushik, Sanjeev Jadhav, Saurabh Tiwari, Rahul Gupta, Transaneurysmal Repair of a Giant Calcified Submitral Left Ventricular Aneurysm, *Braz J Cardiovasc Surg*, Volume 35: Issue 5: Page 844-846, 29th October 2020

## 264. Dr Sanjeev Jadhav

Heart and Lung Transplant Surgery, Apollo Hospitals, Navi Mumbai

### Publications

Sanjeev Jadhav, Sachin Sanagar, Jeenam Shaha, Jayalakshmi Kutty, Mona Jadhav, A Bronchial Lipoma: Occurrence at an Unusual Site and Its Successful Bronchoscopic Resection with an Electrosurgical Snare, *Korean J Thorac Cardiovasc Surg*, Volume 53: Issue 6: Page 400-402, 22nd April 2020

Sachin Sanagar, Shantesh Kaushik, Sanjeev Jadhav, Saurabh Tiwari, Rahul Gupta, Transaneurysmal Repair of a Giant Calcified Submitral Left Ventricular Aneurysm, *Braz J Cardiovasc Surg*, Volume 35: Issue 5: Page 844-846, 2020

## 265. Dr Vikram Raut

Liver Transplant and HPB Surgery, Apollo Hospitals, Navi Mumbai

### Publications

Raut V, Sonavane AD, Bagde A, Marar S, Sawant A, Shah K, Raj A, Thorat A, Chaksota H, Biradar V, Vasanth S, Nagral A, Mirza D, Therapeutic coil embolization of dominant shunt in hepatopulmonary syndrome enhances post-liver transplant respiratory recovery, *Pediatr Transplant*,

Volume 24: Issue 6: Page e13729, September 2020

Vikram Raut, Amey Sonavane, Ketul Shah, Amruth Raj C, Ashok Thorat, Ambreen Sawant, Harshit Chaksota, Ameet Mandot, Suresh Vasanth, Aabha Nagral, Darius Mirza, Successful liver transplantation immediately after recovery from COVID-19 in a highly endemic area, Transplant International, Volume 34: Page 376-377, 30th November 2020

## Nellore

### 266. Dr Bindu Menon

Neurology, Apollo Speciality Hospitals, Nellore

#### Chapters contributed to text books

Dr Bindu Menon, Alzheimer's disease, Management issues in Geriatric care, Chapter 7, Editor- Dr O P Sharma, 1st edition, Geriatric society of India, Rishikul Publication, Page 24-25, 2020

#### Publications

Bindu Menon, Sonu Bhaskar, Sian Bradley, Simon Israeli-Korn, Vijay Kumar Chattu, Pravin Thomas, Jasvinder Chawla, Rajeev Kumar, Paolo Prandi, Daniel Ray, Sailaja Golla, Nirmal Surya, Harvey Yang, Sandra Martinez, Mihriban Heval Ozgen, John Codrington, Eva María Jiménez González, Mandana Toosi, Nithya Hariya Mohan, Koravangattu Valsraj Menon, Abderrahmane Chahidi, Susana Mederer Hengstl, Chronic Neurology in COVID-19 Era: Clinical Considerations and Recommendations From the REPROGRAM Consortium, Frontiers in Neurology, Volume 11: Page 664, 24th June 2020

Menon B, Ramalingam K, Kumar R, Evaluating the Role of Oxidative Stress in Acute Ischemic Stroke, J Neurosci Rural Pract, Volume 11: Issue 1: Page 156-159, 2020

Bindu Menon, Gayatri Manam, The protective anomalous artery, Apollo Medicine, Volume 17: Issue 1: Page 52, 2020

#### Presentations

Paper presentation, Reaching rural communities to raise awareness and improve management of stroke risk factors, World stroke day master class, Webinar, 2nd September 2020

#### Lectures

Lecture, Mobile brain Clinic, Indian academy of Neurology Brain week, 23rd December 2020

Lecture, Stroke outreach, Indian Academy of Neurology stroke subsection meeting, 6th December 2020

Lecture, Metabolic side effects of epilepsy, Epic online, The Epilepsy Colloquium, 13th May 2020

Lecture, Neuro Connect, COVID 19 and Stroke, All India Webinar, 9th April 2020

Lecture, Recent advances in Stroke, All India Webinar, 22nd April 2020

Lecture, Practice of Epilepsy series, Indian Epilepsy Society, All India Webinar, 26th April 2020

Lecture, Unprovoked seizures, ECON 21st Joint Annual Conference of the Indian Epilepsy association and Indian epilepsy society, Ahmedabad, Gujarat, 17th -19th January 2020

Recognise, Respond, React, Live session on Stroke, 30th May 2020

#### Editorial Boards Membership

Editor in chief, National official newsletter of the Indian epilepsy association and Indian epilepsy society, since 2016

#### Professional Societies' Positions

Lifetime Network member, NCD Alliance, since

10th January 2020

Member, World Stroke Organization, since 2017

Research committee member, World Stroke Organization, since 2020

Group Member, Stroke support organization, WHO South East Asia Region, since 2019

Section Co Director, Headache plus section, Committee chair of Migraine and epilepsy, Asia Pacific Headache Society, since 2019

President, Simhapuri Nellore Neuro Club, since 2019

President, Epilepsy association, Nellore chapter, since 2008

## Noida

### 267. Dr Deepa Passi

Paediatrics, Apollo Hospitals, Noida

#### Lectures

Speaker, Role of vitamin D on immunity, AOP, Noida, 1st June 2020

Speaker, Building better brains, Panel discussion of diamond study, AOP, Noida, 28th June 2020

Talk, Covid-19 impact in Paediatrics, AOP, Noida, 4th March 2020

Conducted, Awesome young adults (AYA) workshop, AHA, Delhi, 28th – 29th June 2020

Faculty, Awesome young adults (AYA) workshop, AHA, Delhi, 29th June 2020

Faculty, basic counselling skills, AYA workshop, Haryana, 17th -18th July 2020

Faculty, Panel discussion- media use, poor scholastic performance, substance abuse,

cyberbullying, North zone at DMC, Ludhiana, 9th February 2020

Faculty, Suicide in adolescents, E- Adolescon IAP, national CME E-adolescon Digital platform, 27th September 2020

Faculty, Panel discussion, Short stature, PCNI/ NICIPD, 11th December 2020

Talk, Parenting children and adolescents in Covid-19 times and role of vitamin D on immunity, IAP, Ghaziabad, 25th September 2020

Talk, Nutrition and Resilience in Adolescents, International Adolescent Health Week in association with AACCI (Association of Adolescent Child Care India), Aya India, Aop Noida, 16th May 2020

Organising Secretary, Nutrition and Resilience in Adolescents, International Adolescent Health Week in association with AACCI (Association of Adolescent Child Care India), Aya India, Aop Noida, 16th May 2020

Speaker, Importance of Breast feeding and care of new born, Apollo Hospitals, Noida, 23rd October 2020

Lecture, Road to booster from infancy to adulthood, AOP, Noida, 27th October 2020

#### Professional Societies' Positions

Joint secretary, Adolescent Health Academy, Delhi, since 2020

Trainer, AYA, since 2020

#### Awards

Academics Achievement Award, Apollo Hospitals Education and Research Foundation, 2020

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|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

## OMR

### 268. Dr Anil Pande

Neurosurgery, Apollo Speciality Hospital, OMR

#### Publications

Pande A, Rajaraman N, Sadiya N, Patil S, Pandian S, Adhithyan R, Rajendran B, Jalali R, Ghosh S, Spinal Drop Metastasis of Glioblastoma-Two Case Reports, Clinicopathologic Features, Current Modalities of Evaluation, and Treatment with a Review of the Literature, World Neurosurg, Volume 146: Page 261-269, 5th November 2020

### 269. Dr Devachandran Jayakumar

Critical Care Medicine, Apollo Speciality Hospital, OMR

#### Publications

Devachandran Jayakumar, Neill K J Adhikari, Rajeshwari Arali, Udara Attanayake, Sampath Balasundaram, Abi Beane, Vijay Chakravarthy, Niyaz Channanath Ashraf, Sri Darshana, Dedeepiya Devaprasad, Arjen M Dondorp, Robert Fowler, Rashan Haniffa, Pramodya Ishani, Augustian James, Issrah Jawad, Devachandran Jayakumar, Chamira Kodipilly, Rakesh Laxmappa, Kishore Mangal, Ashwin Mani, Meghena Mathew, Sristi Patodia, Rajyabardhan Pattnaik, Dilanthi Priyadarshini, Mathew Pulicken, Ebenezer Rabindrarajan, Pratheema Ramachandran, Kavita Ramesh, Usha Rani, Suchitra Ranjit, Ananth Ramaiyan, Nagarajan Ramakrishnan, Lakshmi Ranganathan, Thalha Rashan, Raymond Dominic Savio, Jaganathan Selva, Bharath Kumar Tirupakuzhi Vijayaraghavan, Swagata Tripathy, Timo Tolppa, Ishara Udayanga, Ramesh Venkataraman, Deepak Vijayan, Implementing an intensive care registry in India: preliminary results of the case-mix program and an opportunity for quality improvement and research, Volume 5: Page 182, 21st October 2020

### 270. Dr Janani Iyer

Obstetrics and Gynaecology, Apollo Speciality Hospital, OMR

#### Publications

Janani Iyer, Rashmi Manning, Judith N Bulmer, Abha Maheshwari, Meenakshi Choudhary, Are we managing women with Recurrent Miscarriage appropriately? A snapshot survey of clinical practice within the United Kingdom, Journal of Obstetrics and Gynaecology, Page 1-8, doi: 10.1080/01443615.2020.1803241, 19th October 2020

### 271. Dr Muralidharan Venkatesan

Spine Surgery, Apollo Speciality Hospital, OMR

#### Publications

Venkatesan M, Akbari K, Badikillaya V, Hegde SK, Do intraoperative neurophysiological changes during decompressive surgery for cervical myeloradiculopathy affect functional outcome? A Prospective Study, Global Spine Journal, DOI: 10.1177/2192568220951779, 22nd September 2020

Venkatesan M, Akbari K, Hegde SK, Letter to editor concerning- The short-term impact of COVID-19 pandemic on spine surgeons: a cross sectional global study, by Khattab MF et al, European Spine Journal, Volume 29: Issue 9: Page 2402-2403, September 2020

Muralidharan Venkatesan, Ahmad M Tarawneh, Dritan Pasku, Jagdeep Singh, Nasir A Quraishi, Impact of pedicle subtraction osteotomy on health-related quality of life (HRQOL) measures in patients undergoing surgery for adult spinal deformity: a systematic review and meta-analysis, European Spine Journal, Volume 29: Issue 12: Page 2953-2959, December 2020

Venkatesan M, Aziz S, Mahadevan D, Korim T, Dias J, Bhatia M, Evaluation of validity, reliability and

feasibility of 3 patient-reported foot and ankle outcome measures, J Foot and Ankle Surg, Volume 59: Issue 3: Page 507-512, May-June 2020

### **Presentations**

Presentation, Do intraoperative neuromonitoring signal change during cervical decompressive surgery predict outcome, Best Publication Paper presentation, Virtual Bombay Spine Society Annual Conference, December 2020

Presentation, The role of CT myelogram in the era of MRI for diagnosis of lumbar degenerative disc disorder, VTI Gold Medal Paper presentation, Virtual Association of Spine Surgeons of India Conference, September 2020

Presentation, Early Results of Non-fusion scoliosis correction –Single Asian Center Study, Podium presentation, Asia Pacific Spine Surgeons Annual Conference (APSS), Bombay, February 2020

### **Professional Societies' Positions**

Member, Scoliosis Research Society (SRS) Global Outreach Executive Committee, since 2020

Member, AOSpine Indian Subcontinent Delegate Council, since 2020

## **272. Dr Senguttuvan Pandian**

Radiology, Apollo Speciality Hospital, OMR

### **Publications**

Pandian S, Pande A, Rajaraman N, Sadiya N, Patil S, Adhithyan R, Rajendran B, Jalali R, Ghosh S, Spinal Drop Metastasis of Glioblastoma-Two Case Reports, Clinicopathologic Features, Current Modalities of Evaluation, and Treatment with a Review of the Literature, World Neurosurg, Volume 146: Page 261-269, 5th November 2020

## **273. Dr Sreevidya Subramanian**

Microbiology, Apollo Speciality Hospital, OMR

### **Presentations**

Presentation, Abstract-L19 Reporting of notifiable diseases in a multispeciality hospital "the what, when, how and why?", International Science Symposium on HIV and Infectious Diseases (ISSHID 2019): Infectious diseases, Chennai, 12th – 14th October 2020

## **274. Dr Srivatsa VG**

Psychiatry, Apollo Speciality Hospital, OMR

### **Publications**

Srivatsa VG, Challenges in Clinical Practice, Chennai Psychiatric Society Newsletter, Volume 5: Issue 1: Page 10, January – April 2020

### **Lectures**

Lecture, Sensitisation on the need to detect Cognitive Impairment early on, T Nagar, OMR, 2020

Lecture, Burden of Common Mental Disorders (CMD) and how to detect them, using simple standardised tools and their detection, thereof was delivered to sensitise young medical practitioners to identification of CMD in primary care, 2020

Lecture, Stress Management, Corporate webinar, 9th April 2020

Lecture, Mental Health Therapy, Sessions HSBC EDP, 23rd April 2020

Lecture, Stress Management, RBS, 8th May 2020  
Lecture, Stress Management, Evoke Technologies, 9th June 2020

Lecture, Stress Management, Reed Elsevier, 1st July 2020



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Lecture, Mental Health whilst working from home, Ramboll, 13th July 2020

Lecture, Mental Health whilst working from home, Rane Industries, 14th July 2020

Lecture, Mental Health therapy, Sessions Flatirons, 21st August 2020

Lecture, Mental health during a pandemic, Technip, 27th August 2020

Talk, Suicide Prevention, FB live video, 5th September 2020

Lecture, Power of Mindfulness-Multiple Intelligence key to new way learning Continuing Nursing Education series: Apollo College of Nursing, 10th September 2020

Lecture, Early identification of cognitive impairment in a rapidly changing world Rotary Central Aditya, Chennai, 20th September 2020

Lecture, Mental Health whilst working from home, Cognizant, 27th November 2020

Lecture, How to maintain positive mental health, Live webinar, 7th December 2020

Lecture, Identification of CMD in Primary Care, Training program, 21st December 2020

## 275. Dr Wahida Suresh

Obstetrics and Gynaecology, Apollo Speciality Hospital, OMR

### Publications

Suresh W, Nagashree U, A rare case report of gestational trophoblastic disease in perimenopausal women, Int J Reprod Contracept Obstet Gynecol, Volume 9: Issue 11: Page 4716-4718, November 2020

## Pune

## 276. Dr Snita Sinukumar

Surgical Oncology, Apollo Jehangir Hospital, Pune

### Publications

Snita Sinukumar, Shailesh Naik, Devarthi Khurjekar, Yadav Munde, Sameer Bhosale, Pancreaticopleural Fistula After Cytoreductive Surgery and HIPEC for Pseudomyxoma Peritonei-a Rare Presentation and Rare Complication, Indian J Surg Oncol, Volume 11: Issue Suppl 2: Page 174-177, September 2020

Snita Sinukumar, Aditi Bhatt, Praveen Kammar, Sanket Mehta, ASO Author Reflections: Total Parietal Peritonectomy During Interval Cytoreductive Surgery for Advanced Ovarian Cancer-Proof-of-Principle and Analysis of Morbidity, Ann Surg Oncol, Volume 27: Issue Suppl 3: Page 861-862, December 2020

Snita Sinukumar, Aditi Bhatt, Naoual Bakrin, Praveen Kammar, Sanket Mehta, Loma Parikh, Sakina Shaikh, Suniti Mishra, Mrinal Mallaya, Vahan Kepenekian, Nazim Benzerdjeb, Olivier Glehen, Distribution of residual disease in the peritoneum following neoadjuvant chemotherapy in advanced epithelial ovarian cancer and its potential therapeutic implications, Volume 47: Issue 1: Page 181-187, 14th October 2020

Snita Sinukumar, Aditi Bhatt, Praveen Kammar, Loma Parikh, Nutan Jumle, Sakina Shaikh, Sanket Mehta, Total Parietal Peritonectomy Can Be Performed with Acceptable Morbidity for Patients with Advanced Ovarian Cancer After Neoadjuvant Chemotherapy: Results From a Prospective Multi-centric Study, Volume 28: Issue 2: Page 1118-1129, 3rd August 2020

## 277. Dr Swati Y Bhave

Pediatrics and Adolescent Medicine, Apollo Jehangir Hospital, Pune

### Chapters contributed to text books

Dr Swati Y Bhave, Adolescent Medicine, Partha's Current Trends in Diagnosis & Management for Pediatric & Adolescent Practitioners, Chapter 20, Editor- Alok Gupta, 1st edition, Jaypee The Health Science Publisher, Page 382-402, 2020

Swati Y Bhave, Rights of the Child, IAP Textbook of Pediatrics, Chapter 19 (19.8), Editors- A Parthasarathy, 8th edition, Jaypee brothers Medical Publishers, Page 1105-1106, 2020

Dr Swati Y Bhave, Adolescent Medicine, IAP Recent Advances in Pediatrics 1, Chapter 17, Editor- MKC Nair, Piyush Gupta, 1st edition, Jaypee The Health Science Publisher, Page 457 – 478, 2020

### Publications

Swati Y Bhave, Laura A Offutt, Ngozi O Oketah, International adolescent health week inspires adolescents and their communities to advocate for a successful transition into adulthood, Journal of Adolescent Health, Volume 66: Issue 4: Page 387, 1st April 2020

Swati Y Bhave, Vaishali Mardhekar, Shailaja Mane, Savita Itkarkar, Study on Socioemotional aspects of Engineering Girl students, Journal Indian Association Child Adolesc. Ment. Health, Volume 16: Issue 2: Page 90-105, 2020

### Editorial Boards Membership

Member, SAHM Publications Editorial Board, since 2019

### Professional Societies' Positions

Global Co leader, SAHM (Society of Adolescent

Health and Medicine, USA) International Adolescent Week IAHW, since 2020

Member, SAHM diversity committee, since 2020

## Secunderabad

## 278. Dr Ashish Chauhan

Physician, Apollo Hospitals, Secunderabad

### Awards

Recognition, Exemplary work done during lockdown for the poor and destitute, Ceremony, Hon'ble Union Minister of State, Mr G Kishan Reddy, 20th December 2020

## 279. Dr K Subramanyam

Urology, Apollo Hospitals, Secunderabad

### Publications

Saha Tarun Kumar, Somasekher M, Subramaniam S, Outcome of dual kidney transplantation from marginal deceased kidney donor, Transplantation, Volume 104: Issue S3: Page S401, September 2020

## 280. Dr Tarun Kumar Saha

Nephrology, Apollo Hospitals, Secunderabad

### Publications

Saha Tarun Kumar, Somasekher M, Subramaniam S, Outcome of dual kidney transplantation from marginal deceased kidney donor, Transplantation, Volume 104: Issue S3: Page S401, September 2020

## Sheshadripuram

### 281. Dr Himaldev

Critical Care, Apollo Hospitals, Sheshadripuram

#### Publications

Chaitra C Rao, Gunavanthi Jayakumar Himaaldev, STEMI in Young Befogged by Aluminum Phosphide Toxicity-Role of ECMO as Salvage Therapy and Trimetazidine and Magnesium to Suppress Arrhythmias, Indian Journal of Critical Care Medicine, Volume 24: Issue 8: Page 727-730, August 2020

### 282. Dr Pradeep M V

Critical Care, Apollo Hospitals, Sheshadripuram

#### Publications

Pradeep M Venkategowda, Anand Sutar, Ashwini Murthy, Srinivas Budanur Chikkaswamy, Severe Amlodipine Toxicity: A Case Rescued with Extracorporeal Membrane Oxygenation, Indian J Crit Care Med, Volume 24: Issue 5: Page 365-366, May 2020

Pradeep M Venkategowda, Nalla Monica, Tharika Shraddha R, Himaal Dev, Immune thrombocytopenia presenting with subarachnoid haemorrhage, International Journal of Advances in Case Reports, Volume 7: Issue 2: Page 15-17, 2020

#### Awards

Felicited, Corona Warrior, for exemplary work during Covid-19 pandemic, Karnataka State Small Scale Industries (KASSIA), 6th December 2020

## Teynampet

### 283. Dr Archana lakhmanan

Pathology, Apollo Cancer Institute, Teynampet

#### Publications

Archana Lakshmanan, Annapurneswari S, Vimala Ramakrishnan, Ayyappan Srinivasan, An incidental ovarian endometrioid adenofibroma with sertoliform tubules in a patient with endometrial malignant mixed mullerian tumor, Indian Journal of Obstetrics and Gynecology Research, Volume 7: Issue 1: Page 108-110, 2020

#### Lectures

Lecture, Proof of the pudding is in the eating: experience with intraoperative frozen section in breast conservative surgeries, Women Breast Cancer Congress, 13th December 2020

### 284. Dr Bhargavi Ilangoan

Radiation Oncology, Apollo Cancer Institute, Teynampet

#### Publications

Bhargavi Ilangoan, Murali Venkatraman, Subathira Balasundaram, Volume changes during head-and-neck radiotherapy and its impact on the parotid dose – A single-institution observational study, Volume 16: Issue 3: Page 575-580, 18th July 2020

Bhargavi Ilangoan, Ganapathy Raman, S Ayyappan, 165 An audit of the use of vaginal brachytherapy in endometrial cancers, Int J Gynecol Cancer, Volume 30: Issue Suppl 4: Page A30-A31, 2020

#### Lectures

Faculty, TNT Rectum, Young Radiation Oncologist Conference, 2020

### 285. Dr Chetana Govindaraju

Neurosurgery, Apollo Cancer Institute, Teynampet

#### Publications

Chetana Govindaraju, Sushama Patil, K Chandrasekar, Shankar Ganesh, Giridharan Kulasekaran, Sachin Chemate, M Balamurugan,

Cerebral phaeohyphomycosis: Importance of early diagnosis and management, Indonesian Journal of Neurosurgery (IJN), Volume 3: Issue 1: Page 16-19, June 2020

## 286. Dr Jose M Easow

Medical Oncology and Hematology, Apollo Cancer Institute, Teynampet

### Chapters contributed to text books

Dr Jose M Easow, Hematopoietic Stem Cell Collection Techniques, Contemporary Bone Marrow Transplantation, Organ and Tissue Transplantation, Chapter 13, Editor- Mammen Chandy, Vivek S Radhakrishnan, Reghu Sukumaran, Springer, Cham, Page 1-17, 9th June 2020

### Publications

Easow J, Thiagarajan R, Sharma D S, Kaushik S, Sawant M, Ganapathy K, Nambi Raj N A, Chilukuri S, Sundar SC, Patro KC, Manikandan A, Noufal MP, Sivaraman R, Jalali R, Leaf open time sinogram (LOTS): a novel approach for patient specific quality assurance of total marrow irradiation, Radiat Oncol, Volume 15: Issue 1: Page 236, 14th October 2020

Easow J, Chilukuri S, Sundar S, Thiagarajan R, Sawant M, Krishnan G, Panda PK, Sharma D, Jalali R, Total marrow and lymphoid irradiation with helical tomotherapy: a practical implementation report, Radiat Oncol J, Volume 38: Issue 3: Page 207-216, September 2020

Jose Easow, SharatDamodar, Vivek S Radhakrishnan, Joseph John M, Pankaj Malhotra, Reetu Jain, Sameer Melinkeri, Alok Srivastava, HSCT Guidelines for Transplant Practices During the COVID-19 Pandemic in India ISBMT DOCUMENT Version1.0, The official journal of APBMT, Volume 3: Issue 3: Page 59-70, November 2020

Easow J, Jacob M, Mathew M, Parthasarathy R, Arulneyam J, Ghosh S, Sivaranjini Narayanan,

Georgi Abraham, Isolated B cell central nervous system posttransplant lymphoproliferative disorder: Role of magnetic resonance imaging in the diagnosis and management in the absence of neurological signs - a case report, Indian J Transplant, Volume 14: Issue 3: Page 243-246, 30th September 2020

Easow J, Singh C, Jain A, Lad D, Prakash G, Khadwal A, Bhurani D, Ahmed R, Agrawal N, Varma N, Malhotra P, Poor tolerability to ponatinib in Indian CML patients, Blood Adv, Volume 4: Issue 9: Page 1927-1929, 12th May 2020

Easow J, George B, Menon H, Bhurani D, Damodar S, Apte S, Seth T, Sharma A, Shyam R, Malhotra P, Lakshmi KM, Agrawal N, Sengar M, Nataraj KS, Ahmed R, Sharma S, Khadwal A, Prakash G, Abraham A, Devasia A, Korula A, Mathews V, A Prospective Observational Multi-institutional Study on Invasive Fungal Infections Following Chemotherapy for Acute Myeloid Leukemia (MISFIC Study): A Real World Scenario from India, Indian J Hematol Blood Transfus, Volume 36: Issue 1: Page 97-103, January 2020

### Lectures

Chairperson, Alternative Donor Transplantation, 25th Annual APBMT, ISBMT, Virtual, October 2020

Expert for meet, Chimerism monitoring and post transplant strategies for mixed Chimerism, Conference first ISBMT meeting, Vellore, March 2020

Chair Person, Aplastic Anemia Session, 1st International symposium on bone marrow failure syndrome, CMC Valore, February 2020

### Professional Societies' Positions

Medical Director, DATRI unrelated donor Registry, since 2015

Executive Committee Member, Indian Society for Blood and Marrow Transplantation, since 2018

Registry Committee Member, Indian Society for Blood & Marrow Transplantation, since 2018

Member, Indian Medical Association

Member, European Bone Marrow Transplantation

Member, American Society of Clinical Oncology,

## 287. Dr Keyur K Akbari

Ortho Spine, Apollo Cancer Institute, Teynampet

### Publications

Keyur K Akbari, Muralidharan Venkatesan, Sajan K Hegde, Letter to the Editor concerning- The short-term impact of COVID-19 pandemic on spine surgeons: a cross-sectional global study, Eur Spine J, Volume 29: Issue 9: Page 2402-2403, September 2020

Keyur Kantilal Akbari, Vigneshwara Badikillaya, Muralidharan Venkatesan, Sajan K Hegde, Do Intraoperative Neurophysiological Changes During Decompressive Surgery for Cervical Myeloradiculopathy Affect Functional Outcome? A Prospective Study, Global Spine J, DOI: 10.1177/2192568220951779, 22nd September 2020

## 288. Dr Lakshman Vaidhyanathan

Hematopathology, Apollo Cancer Institute, Teynampet

### Chapters contributed to text books

Dr Lakshman Vaidhyanathan, Hematopoietic Stem Cell Collection Techniques, Contemporary Bone Marrow Transplantation, Chapter 13, Editor- Dr Reghu K Sukumaran, Springer Link, Page 1-17, January 2020

### Publications

Lakshman Vaidhyanathan, Jose M. Easow, Hematopoietic Stem Cell Collection Techniques, Research gate, Volume 14: Issue 1: Page 1-17, 11th October 2020

Lakshman Vaidhyanathan, Thulasi Raman Ramalingam, Anurekha Muthu, Balasubramaniam Ramakrishnan, Ramya Uppuluri, Revathi Raj, Immunophenotypic modulation in pediatric B lymphoblastic leukemia and its implications in MRD detection, Lymphoma, Volume 61: Issue 8: Page 1974-1980, 12th April 2020

## 289. Dr Mahadev Potharaju

Oncology Radiation, Apollo Cancer Institute, Teynampet

### Awards

Apollo Clinical Award, Distinguished Researcher for exemplary services in research, 4th February 2020

## 290. Dr Mayilvahanan Natarajan

Orthopaedic, Apollo Cancer Institute, Teynampet

### Professional Societies' Positions

Life Member, M.Ch.Orth. Society, Liverpool, U K, since 1986

Life Member, World Orthopaedic Concern, U K, since 1990

Member, International Society of Limb Salvage, France, since 1990

Life Member, UICC (International Union against Cancer), Switzerland, since 2000

Founder Member, Orthopaedic Association of SAARC Countries, Nepal, since 2000

Life Member, (President 2000 AD) Tamil Nadu Orthopaedic Association, since 1981

Life Member, Indian Orthopaedic Association, since 1981

Life Member, Association of Surgeons of India, since 1981

Life Member, Indian Red Cross Society, since 1980

Life Member, Association of Spinal Surgeons of India, since 1990

Life Member, Indian Rheumatism Association, since 1990

Life Member, Indian Society of Oncology, since 1990

Member, Indian Association of Occupational Health (Tamilnadu Branch), since 1985

Life Member, Paediatric Orthopaedic Society of India, since 1998

Life Member, International Trauma, Anaesthesia and critical care society, since 1999

Life Member, International Bone and Joint Tuberculosis, since 1981

## 291. Dr Mekala Lakshminarayanan

Histopathology, Apollo Cancer Institute, Teynampet

### Publications

Mekala Lakshminarayanan, Ann Kurian, Ajit Pai, Histomorphologic spectrum of laryngeal neuroendocrine carcinoma: a rare case, Indian Journal of Otolaryngology and Head & Neck Surgery, DOI:10.1007/s12070-020-02229-6, October 2020

Mekala Lakshminarayanan, Ann Kurian, Kumar Gubbala, Sertoliform endometrioid carcinoma of the ovary in a young woman: diagnostic challenges for the pathologist, Indian Journal of Gynecologic Oncology, Volume 18: Issue 9: Page 37, 29th November 2020

Mekala lakshminarayanan, Annapurneswari Subramanyan, Sarcomatous transformation in fibrous dysplasia, British Journal of Pharmaceutical and Medical research, Volume 5: Issue 2, Page 2341- 2344, March – April 2020

## 292. Dr Narasimhan Ragavan

Urology, Apollo Cancer Institute, Teynampet

### Publications

Narasimhan Ragavan, Nivash Selvaraj, Deepak Raghavan, Ramesh Kamalakannan, Thirumalai Ganesan Govindaswamy, Arun Kumar Balakrishnan, Nitesh Jain, Robot Assisted Laparoscopic Adrenalectomy: Does Size Matter?, Cureus, Volume 12: Issue 8: Page :e9887, 20th August 2020

## 293. Dr Nikita J Mulchandani

Histopathology, Apollo Cancer Institute, Teynampet

### Publications

Nikita J Mulchandani, R Vimala, Uterine Angiomyolipoma: A Case Report and Review of Literature, Indian Journal of Gynecologic Oncology, Volume 18: Issue 75: 26th June 2020

## 294. Dr Raja Thirumalairaj

Medical Oncology, Apollo Cancer Institute, Teynampet

### Publications

A. Ramya, B M Sruthi Roopa, T Allwyn Yabesh, T Raja, Carcinosarcoma of Liver– A Rare Entity, Asian Pacific Journal of Health Sciences, Volume 7: Issue 2: Page 26-28, April-June 2020



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| 2020 | Project Kavach | Clinical Excellence | Apollo Homecare | IT and Telemedicine | CSR | Academics | Recognition | Research | Consultants' Achievements |
|------|----------------|---------------------|-----------------|---------------------|-----|-----------|-------------|----------|---------------------------|

Sruthi Roopa BM, Ramya Ananthakrishnan, Allwyn Yabesh T, Rameez Ahamed, Raja Thirumalairaj, A Rare Case Report of Blastic Plasmacytoid Dendritic Cell Neoplasm, American Journal of Medical Case Reports, Volume 8: Issue 12: Page 438-442, 14th August 2020

### Orations

Faculty, Oration- checkpoint blockade therapy: Focusing on combinations to improve outcomes, Annual Meeting Immuno Oncology Society of India, 30th October 2020

### Lectures

Faculty, Breakthroughs in GIT cancer, Webinar, Annual Conference of Indian Society of Medical and Pediatric Oncology, ISMPOCON, Bengaluru, 8th November 2020

Faculty, Optimizing precision medicine in Gastric cancer: advanced with novel HER2 targeted therapies and other agents into current clinical practice, Webinar, Newer paradigm in Clinical Management of Gastric and pancreatic cancer: An overview, 5th November 2020

Faculty, Nuances in the treatment of mRCC, 43rd Indian Cooperative Oncology Network (ICON) conference- Genitourinary malignancies, 11th October 2020

Panelist, NALCCON, 10th Annual Conference of Indian Society for study of Lung cancer, 3rd October 2020

Speaker, ONCOWEBEX, HCC: a paradigm shift in the management of unresectable HCC, September 2020

Interviewer, Webinar, Lung cancer Chakravyuh- untold story, unmet needs, unique solutions meeting, 30th August 2020

Lecture, Metastatic RCC & Bladder cancer, Webinar, Immuno Oncology and targeted therapies

update with Max super speciality Hospital, 17th July 2020

Faculty, Future of breast cancer, Webinar, Breast cancer Chakravyuh, 7th June 2020

Panelist, Lung cancer, Webinar, ASCO, 26th June 2020

Speaker, Official San Antonio Breast Cancer Symposium (SABCS), India in Durvalumab compared to maintenance chemotherapy in patient with metastatic breast cancer, Delhi 8th March 2020

Moderator, 5th Edition of Apollo Cancer Conclave and 8th edition of the biennial cancer CI2020 in Metastatic breast cancer, Hyderabad, 13th - 16th February 2020

### Presentations

Panelist, Webinar, International speaker program on lung cancer, 30th November 2020

Speaker, Updates on Checkmate in lung cancer, Live webinar, International cancer summit, Rajiv Gandhi cancer Institute Hospital, Delhi, 6th November 2020

## 295. Dr Ramya Uppuluri

Pediatric Hematology, Oncology, Blood and Marrow Transplantation, Apollo Cancer Institute, Teynampet

### Publications

Ramya Uppuluri, Venkateswaran Vellaichamy Swaminathan, Kesavan Melarcode Ramanan, Satishkumar Meena, Harika Varla, Balasubramaniam Ramakrishnan, Indira Jayakumar, Revathi Raj, Haploidentical Stem Cell Transplantation with Post-Transplant Cyclophosphamide in Fanconi Anemia: Improving Outcomes with Improved Supportive Care in India, Biol Blood Marrow Transplant, Volume 26: Issue

12: Page 2292-2298, December 2020

Uppuluri R, Swaminathan VV, Patel S, Ravichandran N, Ramanan KM, Vaidhyanathan L, Ramakrishnan B, Jayakumar I, Raj R, Matched Family versus Alternative Donor Hematopoietic Stem Cell Transplantation for Patients with Thalassemia Major: Experience from a Tertiary Referral Center in South India, Biol Blood Marrow Transplant, Volume 26: Issue 7: Page 1326-1331, July 2020

Ramanan KM, Uppuluri R, Ravichandran N, Patel S, Swaminathan VV, Jayakumar I, Raj R, Successful remission induction in refractory familial hemophagocytic lymphohistiocytosis with ruxolitinib as a bridge to hematopoietic stem cell transplantation, Pediatr Blood Cancer, Volume 67: Issue 3: Page e28071, March 2020

Uppuluri R, Vellaichamy Swaminathan V, Patel S, Melarcode Ramanan K, Ravichandran N, Jayakumar I, Vaidhyanathan L, Raj R, Treosulfan-based reduced toxicity hematopoietic stem cell transplantation in X-linked agammaglobulinemia: A cost-effective alternative to long-term immunoglobulin replacement in developing countries, Pediatr Transplant, Volume 24: Issue 1: Page e13625, February 2020

Ramya U, Thulasi Raman R, Anurekha M, Lakshman V, Balasubramaniam R, Revathi R, Immunophenotypic modulation in pediatric B lymphoblastic leukemia and its implications in MRD detection, Leuk Lymphoma, Volume 61: Issue 8: Page 1974-1980, August 2020

Ramya Uppuluri, Venkateswaran Vellaichamy Swaminathan, Shivani Patel, Kesavan Melarcode Ramanan, Nikila Ravichandran, Indira Jayakumar, Lakshman Vaidhyanathan, Revathi Raj, Treosulfan-based reduced toxicity hematopoietic stem cell transplantation in X-linked agammaglobulinemia: A cost-effective alternative to long-term immunoglobulin replacement in developing

countries, Pediatr Transplant, Volume 24: Issue 1: Page e13625, February 2020

Ramya Uppuluri, Kesavan Melarcode Ramanan, Nikila Ravichandran, Shivani Patel, Venkateswaran Vellaichamy Swaminathan, Indira Jayakumar, Revathi Raj, Successful remission induction in refractory familial hemophagocytic lymphohistiocytosis with ruxolitinib as a bridge to hematopoietic stem cell transplantation, Pediatr Blood Cancer, Volume 67: Issue 3: Page e28071, March 2020

### Professional Societies' Positions

Member, Indian Academy of Pediatrics IAP

Member, Pediatric Hematology Oncology chapter of Indian Academy of Pediatrics

Member, Indian Society of Hematology and Blood Transfusion

Member, Indian Society of Primary Immune Deficiency

Member, Indian Society of Blood and Marrow Transplantation

Member, International Society of Pediatric Oncology

Member, Asia Pacific Society of Blood and Marrow Transplantation

Member, American Society of Blood and Marrow Transplantation

Member, Clinical Immunology Society

Member, Asia Pacific Society of Primary Immune Deficiencies

Member, Indian Pediatric Oncology Group

## 296. Dr Sachin Sambhaji Chemate

Neurosurgery, Apollo Cancer Institute, Teynampet

### Publications

S Chemate, Y Kato, B S Liew, A A Sufianov, L Rasulic, K I Arnautovic, V H Dong, I S Florian, F Oildashi, Y Makhambetov, B Isam, M Thu, Ts Enkhbayar, N Kumarasinghe, A H Bajamal, S Nair, S Sharif, M R Sharma, J A Landeiro, C G Yampolsky, N M F El-Ghandour, A M Hossain, S Sim, Hira Burhan, L Feng, H Andrade, Isabelle M Germano, Review of global neurosurgery education: Horizon of neurosurgery in the developing countries, Kato et al. Chinese Neurosurgical Journal, Volume 6: Issue 19: Page 1-13, 2020

Sachin Chemate, K Chandrasekar, C V Shankar Ganesh, Chetana Govindaraju, M Balamurugan, 'Mickey mouse head aneurysms' – Kissing aneurysms of the distal anterior cerebral artery: A case report and review of literature, Journal of Cerebrovascular Sciences, Volume 8: Issue 1: Page 50-54, 1st October 2020

Sachin Chemate, K Chandrasekar, Shankar Ganesh C V, Chetana Govindaraju, M Balamurugan, "Mickey Mouse head aneurysms" - kissing aneurysms of the distal anterior cerebral artery: a case report and literature review, Indonesian Journal of Neurosurgery, Volume 3: Issue 1: Page 33-37, 2020

### Presentations

Case Presentation, Neurological Society of India, Online Webinar, 3rd October 2020

## 297. Dr Shankar Vangipuram

Radiation Oncology, Apollo Cancer Institute, Teynampet

### Publications

V Shankar, V Sai Shreya, P Bhavya, H Vyas, C Haritha, K Ibrahim, Outcomes of Fractionated

Radiosurgery in Cystic Vestibular Schwannoma, International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3: Supplement, Page E694, 1st September 2020

V Shankar, C Haritha, V Sai Shreya, P Bhavya, H Vyas, White Matter Plasticity in Trigeminal Neuralgia - FCD Mapping Study; International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page E250, 1st September 2020

V Shankar, V Sai Shreya, C Haritha, P Bhavya, H Vyas, Post Radiation Cortical Thickness Variations In Brain "Association Areas", International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page E693, 1st September 2020

V Shankar, V Sai Shreya, H Vya, P Bhavya, C Haritha, G Lohith, T Basu, U Saxena, Frameless Radiosurgery for Intractable Idiopathic Glossopharyngeal Neuralgia, International Journal of Radiation Oncology Biology, Physics, Volume 108: Issue 3: Supplement, Page E693, 1st September 2020

V Sai Shreya, V Shankar, C Haritha, P Bhavya, H Vyas, C E Deopujari, K Turel, Radiosurgical Lesionectomy For Cavernomas Associated With Drug Resistant Epilepsy, International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page 708-709, 1st September 2020

V Shankar, V Sai Shreya, C Haritha, P Bhavya, H Vyas, S Sebastin, T Basu, U Saxena, Post SRS Normotensive Hydrocephalus In Acoustic Schwannoma, International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page 669-670, 1st September 2020

V Shankar, P Bhavya, V Sai Shreya, K Turel, C E Deopujari, H Vyas, C Haritha, Radiosurgical Ablation Of Intramedullary Spinal Cord AVM, International Journal of Radiation, Oncology,

Biology, Physics, Volume 108: Issue 3 Supplement: Page 707, 1st September 2020

V Shankar, V Sai Shreya, R Deshpande, N Raut, P P Kendre, B Chauhan, C Haritha, H Vyas, P Bhavya, Long Term Clinical Outcomes Of Multi-Level Spinal SBRT For Vertebral Metastases, International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page 708, 1st September 2020

V Shankar, R Deshpande, N Raut, C Haritha, P P Kendre, V Sai Shreya, P Bhavya, H Vyas, B Chauhan, U Saxena, T Basu, Inter-Breath Hold Displacements of Daily GTV Positions With ABC for Lung SBRT, International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page 270, 1st September 2020

V Shankar, P Deepanjali, H Vyas, R Purohit, K Chigurupalli, M Bhandari, A Arora, A Vashistha, A Gupta, S Peter, V Sai Shreya, Clinical Impact of Inter-fraction Dose Accumulation in Image Guided Radiotherapy of Carcinoma Cervix - Prospective Phase 1 Study, International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page 458-459, 1st September 2020

V Shankar, S Gawde, R Deshpande, N Raut, B Chauhan, P P Kendre, V Sai Shreya, C Haritha, P Bhavya, H Vyas, Pre- and Post SBRT Metabolic Response for Osseous Spine Metastases, International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page 273, 1st September 2020

V Shankar, V Sai Shreya, P Bhavya, H Vyas, C Haritha, C E Deopujari, V Velho, K Turel, U Andar, U Saxena, T Basu, Intradural Spine Tumors Radiosurgery Delivery Accuracy using CBCT Image Guidance, International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page 688, 1st September 2020

V Shankar, V Sai Shreya, U Andar, C E Deopujari, H

Vyas, P Bhavya, C Haritha, Frameless hypofractionated radiosurgery for koos grade 4 acoustic schwannoma, International Journal of Radiation Oncology, Biology, Physics, Volume 108: Issue 3 Supplement: Page 694, 1st September 2020

#### **Professional Societies' Positions**

Member, Association of radiation Oncologists of India, since 1999

Member, American Society of Radiation Oncology (ASTRO), since 2002

Member, European Society of Radiation Oncology (ESTRO), since 2002

Member, International Society of Radiosurgery (ISRS), since 2014

#### **298. Dr Shivaram Bharathwaj**

Plastic Surgery, Apollo Cancer Institute, Teynampet

#### **Publications**

Shivaram Bharathwaj, Jijo Joseph, Antony Arvind, Rajan Ganapathy Bhagavathy, Hari Krishna Muram Reddy, Re-exploration in the early postoperative period has a better salvage rate in free flaps, European Journal of Plastic Surgery, Volume 44: Pages 219-230, November 2020

#### **299. Dr Swetha Lakshmi Narla**

Histopathology, Apollo Cancer Institute, Teynampet

#### **Publications**

Swetha Narla, Sasankh RK, Annapurneswari S, Chandrasekaran Maharajan, Giant Ectopic Parathyroid Adenoma of the Mediastinum Causing Primary Hyperparathyroidism - A Rare Case Report with Review of Literature, International Journal of Pathology and Clinical Research, Volume 6: Issue 1: Page 1-4, May 2020

Swetha Narla, Arshee Badar, Ann Kurian, Ovarian Cystic Lymphangioma: A Rare Case Report with Review of Literature, International Journal of Pathology and Clinical Research, Volume 6: Issue 2: Page 1-3, 19th October 2020

Swetha Narla, Ann Kurian, Rajarajan Venkatesan, Ajit Pai, Cystic trophoblastic tumor – The effect of chemotherapy in metastatic testicular germ cell tumor to retroperitoneal lymph nodes, Urology Annals – Case Report, Volume 12: Issue 1: Page 73-76, 2020

### 300. Dr Thulasi Raman Ramlingam

Hematology, Apollo Cancer Institute, Teynampet

#### Publications

Thulasi Raman Ramalingam, Lakshman Vaidhyanathan, Prabu Pandurangan, Anaplastic plasma cell myeloma - A morphological dilemma, Hematol Transfus Cell Ther, Volume S2531-1379: Issue 20: Page 30112-30117, 5th August 2020

Ramalingam Thulasi Raman, Muthu Anurekha, Vaidhyanathan Lakshman, Ramakrishnan Balasubramaniam, Uppuluri Ramya, Raj Revathi, Immunophenotypic modulation in pediatric B lymphoblastic leukemia and its implications in MRD detection, Leuk Lymphoma, Volume 61: Issue 8: Page 1974-1980, August 2020

Thulasi Raman Ramalingam, Deenadayalan Munirathnam, Mendelian susceptibility to mycobacterial disease masquerading as lymphoproliferative disorder, Journal of Applied Hematology, Volume 11: Issue 3: Page 145-148, 2020

### 301. Dr Venkatesvaran V S

Paediatric Haematology, Oncology, Blood and Marrow Transplantation, Apollo Cancer Institute, Teynampet

#### Publications

Venkateswaran Vellaichamy Swaminathan, Ramya Uppuluri, Shivani Patel, Nikila Ravichandran, Kesavan Melarcode Ramanan, Lakshman Vaidhyanathan, Balasubramaniam Ramakrishnan, Indira Jayakumar, Revathi Raj, Matched Family versus Alternative Donor Hematopoietic Stem Cell Transplantation for Patients with Thalassemia Major: Experience from a Tertiary Referral Center in South India, Biol Blood Marrow Transplant, Volume 26: Issue 7: Page 1326-1331, July 2020

### Vanagaram

### 302. Dr R Dhananjayan

Biochemistry, Apollo Speciality Hospitals, Vanagaram

#### Publications

Dhananjayan R, Serum Ferritin Levels in Coronavirus Disease-2019 (COVID-19) Patients, European Journal of Biomedical and Pharmaceutical sciences, Volume 8: Issue 1: Page 238-241, 2020

Dhananjayan R, A Review on Serum Markers and Genetics of Endothelial Dysfunction, European Journal of Biomedical and Pharmaceutical sciences, Volume 7: Issue 2: Page 103-106, 2020

Dhananjayan R, A Review on Proton Therapy for various Cancers, European Journal of Biomedical and Pharmaceutical sciences, Volume 7: Issue 4: Page 132-134, 2020

#### Orations

Current Research Aspects for Dental Students, Star Summit, Saveetha Dental College and Hospital (Saveetha University), Chennai, 9th January 2020

#### Lectures

Speaker, Webinar- Emerging Trends In Medical Technology A Kaleidoscopic View, Sankara Nethra

Academy, Chennai, 17th July 2020

Talk, Vitamin D- The Diagnostic and Biochemistry Approach, Sankara Nethra Academy, Chennai, 17th July 2020

### 303. Dr Srikala Prasad

Urogynaecology, Apollo Speciality Hospitals, Vanagaram

#### Professional Societies' Positions

Member, Urogynaec Committee of the Asia Oceania Federation of Obstetrics and Gynaecology AOFOG, since 2019

## Vizag

### 304. Dr Atchyuth Gongada

Anaesthesiology and Intensive Care, Apollo Hospitals, Vizag

#### Examinership

Examiner, DNB Anaesthesiology Practical Exam, Apollo Hospitals, Health City, Vizag, 21st July 2020

Examiner, DNB Anaesthesiology Practical Exam, Care Hospitals, Vizag, 21st July 2020

### 305. Dr Disha Magatapalli

Anesthesiology, Apollo Hospitals, Vizag

#### Examinership

Examiner, DNB Anaesthesiology Practical Exam, Apollo Hospitals, Health City, Vizag, 21st July 2020

### 306. Dr Farooqi

Cardiovascular Thoracic Surgery, Apollo Hospitals, Vizag

#### Publications

Sujit kumar Mohanty, Sunil Kumar Sathapathy,

Farooqi, Rama Krishna, Jaydeep Trivedi, Ravi Kumar, Coronary sinu Atrial Septal Defect without Persistent Left Superior Vena Cava: Single Vessel Coronary Artery Disease, Surgically Managed-A Rarest Case Report, International Journal of Clinical Case Reports and Reviews, Volume 3: Issue 3: Page 37, 5th September 2020

### 307. Dr G V Ramakrishna

Anesthesiology, Apollo Hospitals, Vizag

#### Examinership

Examiner, DNB Anaesthesiology Practical Exam, Care Hospitals, Vizag, 21st July 2020

### 308. Dr Jaydeep Trivedi

Cardiovascular Thoracic Surgery, Apollo Hospitals, Vizag

#### Publications

Jaydeep Trivedi, Sujit kumar Mohanty, Sunil Kumar Sathapathy, Farooqi, Rama Krishna, Ravi Kumar, Coronary sinu Atrial Septal Defect without Persistent Left Superior Vena Cava: Single Vessel Coronary Artery Disease, Surgically Managed-A Rarest Case Report, International Journal of Clinical Case Reports and Reviews, Volume 3: Issue 3: Page 37, 5th September 2020

### 309. Dr Rama Krishna

Cardiovascular Thoracic Surgery, Apollo Hospitals, Vizag

#### Publications

Rama Krishna, Sujit kumar Mohanty, Sunil Kumar Sathapathy, Farooqi, Jaydeep Trivedi, Ravi Kumar, Coronary sinu Atrial Septal Defect without Persistent Left Superior Vena Cava: Single Vessel Coronary Artery Disease, Surgically Managed-A Rarest Case Report, International Journal of Clinical Case Reports and Reviews, Volume 3: Issue 3: Page 37, 5th September 2020



### 310. Dr Ravi Charan Avala

Pulmonology, Apollo Hospitals, Vizag

#### Publications

Ravi Charan Avala, Narendra Kumar Narahari, Anu Kapoor, Bhaskar Kakarla, Rajasekhar Varma, Paramjyothi Kruparao Gongati, Interstitial pneumonia with Autoimmune Features- an Observational Study in a Tertiary Care Institute from south India, Indian Journal of Respiratory Care, Volume 9: Issue 2: Page 209-215, July-December 2020

### 311. Dr Ravi Kumar

Cardiovascular Thoracic Surgery, Apollo Hospitals, Vizag

#### Publications

Ravi Kumar, Sujit Kumar Mohanty, Sunil Kumar Sathapathy, Farooqi, Rama Krishna, Jaydeep Trivedi, Coronary sinu Atrial Septal Defect without Persistent Left Superior Vena Cava: Single Vessel Coronary Artery Disease, Surgically Managed-A Rarest Case Report, International Journal of Clinical Case Reports and Reviews, Volume 3: Issue 3: Page 37, 5th September 2020

### 312. Dr Ravi Raju Tatipudi

Nephrology, Apollo Hospitals, Vizag

#### Professional Societies' Positions

Member, Governing Body, National Board of Examinations, Government of India, New Delhi, since June 2016

Member, Board of Management, GITAM Deemed University, since April 2017

### 313. Dr Sujit Kumar Mohanty

Cardiology, Apollo Hospitals, Vizag

#### Publications

Sujit kumar Mohanty, Sunil Kumar Sathapathy, Farooqi, Rama Krishna, Jaydeep Trivedi, Ravi Kumar, Coronary sinu Atrial Septal Defect without Persistent Left Superior Vena Cava: Single Vessel Coronary Artery Disease, Surgically Managed-A Rarest Case Report, International Journal of Clinical Case Reports and Reviews, Volume 3: Issue 3: Page 37, 5th September 2020

### 314. Dr Sunil Kumar Satpathy

Cardiovascular Thoracic Surgery, Apollo Hospitals, Vizag

#### Publications

Sujit kumar Mohanty, Sunil Kumar Sathapathy, Farooqi, Rama Krishna, Jaydeep Trivedi, Ravi Kumar, Coronary sinu Atrial Septal Defect without Persistent Left Superior Vena Cava: Single Vessel Coronary Artery Disease, Surgically Managed-A Rarest Case Report, International Journal of Clinical Case Reports and Reviews, Volume 3: Issue 3: Page 37, 5th September 2020

Apollo Proton Cancer  
Centre, Chennai

Chennai



Mumbai

Bengaluru



Delhi



Hyderabad



Ahmedabad



Kolkata



Indraprastha Apollo Hospitals, Delhi was the first hospital in India to be accredited in 2005. Apollo Hospitals in Chennai, Hyderabad, Bengaluru, Mumbai, Kolkata, Ahmedabad, and Apollo Proton Cancer Centre, Chennai have been accredited by Joint Commission International, USA. The accreditation underlines our commitment to provide our patients with the highest standards of clinical care, safe environment, medication safety, respect for rights and privacy, international infection control standards and access to a dedicated, well-trained staff.

Joint Commission International (JCI), is widely considered as the gold standard in healthcare accreditation. Apollo Hospitals, Hyderabad was the first hospital in the world to receive the disease-specific certification for stroke management.

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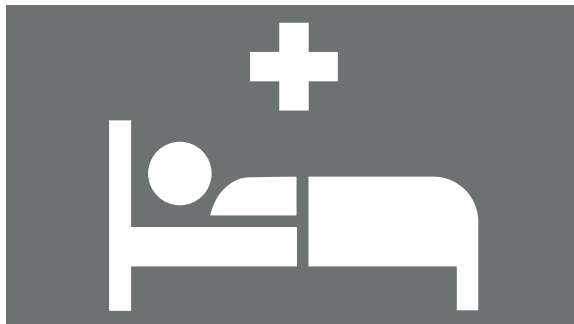


80000 FAMILY  
MEMBERS

# 11000 DOCTORS



OVER 10000  
BEDS



# 237 CLINICS

# 73 LOCATIONS