

# Case of the Week



## ANGIOPLASTY WITH BRS (BIORESORBABLE STENT) STENT IMPLANT

Coronary Artery Disease is the leading cause of death in India. Globally, India has the highest number of deaths due to cardiovascular disease. The number of young people suffering from cardiovascular disease is twice as high in Tamil Nadu as in Western countries. Apart from stressful lifestyles and sedentary work, the prevalence of diseases such as diabetes, obesity and high blood pressure is a major cause of heart disease among Indian youths. These diseases are closely related to cardiovascular disease.

Dr. Vivek Bose, a Senior Interventional cardiologist at the Apollo Special Hospital in Madurai, said that in his experience, more than 25 per cent of young people have a high incidence of cardiovascular disease.

41-year-old male with high blood pressure was admitted to the hospital due to minor discomfort in the chest and shortness of breath. At the Apollo Hospitals, he underwent tests including routine ECG and ECHO. He underwent a coronary angiogram and he was found to have a single blockage and blood clot in his Left Anterior Descending Artery.

Considering his age and the presence of a blood clot, Dr. Vivek Bose and his team planned to use a Indian-made naturally Bioresorbable stent for the young man. Commonly used stents are made of metal which are permanently present inside the body.

'Bioresorbable stent (Dissolvable Stent)' is made of naturally soluble material (PLLA). Which disappear completely in two to three years. After dissolving the blockage and dilating the blood vessel, it also does a great job of promoting healing of the lining of the treated blood vessel.

The use of a naturally self-dissolving stent as opposed to a conventional metal stent can prevent the artery from being trapped in a metal cage. It also helps the blood vessel to return to its normal state quickly. It also reduces the dependence of patients on medications to prevent blood clots. In the future, it may be easier to do more treatment like bypass surgery in the same artery if needed.

The Meril Life Sciences MeRes 100 BRS is the world's first 100 micron thin stent approved by the Drug Controller General of India (DCGI) and approved by the European CE. Its positive safety and efficacy have been demonstrated in research in India and globally.

The young man, who had successfully, underwent this modern innovative Angioplasty, returned home from the hospital 2 days after treatment. He has decided to change his lifestyle based on the advice of the cardiologist.

### Clinical Team

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