

# Case of the Week

## LIVER CANCER TREATED WITH MICROWAVE ABLATION OF THE TUMOR

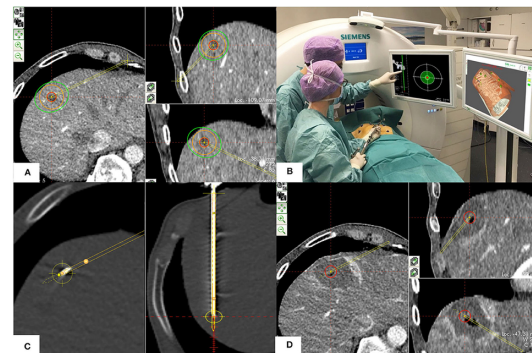
Liver cancer remains a global health challenge. The incidence of liver cancer is increasing worldwide. It is estimated that by 2025, more than 1 million individuals will be affected by liver cancer annually. 1-5% of patients with cirrhosis develop liver cancer annually. Hepatitis B virus and Hepatitis C virus causes most of the liver cancers globally.

Non-alcoholic steatohepatitis (NASH) associated with metabolic syndrome or diabetes mellitus is becoming the fastest growing cause of liver cancer. Routine surveillance of cirrhosis patients by doing radiological imaging and blood tests can identify liver cancer at an early stage. If liver cancer is identified at early stage and treated, there is a potential for cure whereas if identified in late stage, the patient succumbs to the cancer within 1 year.

A patient from Theni whose age is 61 years with liver cancer at an early stage. We offered an innovative treatment called Microwave ablation of the tumor. This treatment uses the microwave energy (same energy used in microwave oven) to destroy the cancer. It was delivered through a needle inserted into the tumor. The entire treatment duration was 30 minutes and the patient was discharged home in 2 days.

He is presently doing well and on follow up. The patient and family were really grateful and happy to have seen this result, as according to them it has given her a new lease of hope. It has also given a Quality to his living, and brought back his confidence.

This procedure was done by a team of doctors including Liver Transplant Surgeon Dr. Madhusudhanan, Interventional Radiologist Dr. John Robert, Medical Gastroenterologists Dr. Rajesh Prabhu and Dr. Praveen Kumar. This procedure was done for the first time in Madurai at Apollo Speciality Hospital.



### Clinical Team

Dr. Madhusudhanan, Liver Transplant Surgeon  
Dr. John Robert, Interventional Radiologist  
Dr. Rajesh Prabhu, Medical Gastroenterologist  
Dr. Praveen Kumar, Medical Gastroenterologists

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