

34-Year-Old Woman with Rare Congenital Birth Defect Successfully Treated for Multiple Sinus of Valsalva Aneurysms (SOVA) at Lilavati Hospital

Mumbai, 10th Dec 2024: A team of experts at Lilavati Hospital and Research Centre, led by Dr. Pavan Kumar, a renowned Cardiovascular Surgeon, along with Cardiologist Dr. Nitin Gokhale and Cardiac Anaesthesiologist Dr. Namrata Kothari, successfully treated a 34-year-old woman, Ms. Seema Ravikanth Patil, for a rare and complex heart condition known as Sinus of Valsalva Aneurysm (SOVA). The patient, diagnosed with multiple congenital aneurysms, underwent a meticulously planned surgical procedure that has given her a new lease on life.

This case underscores Lilavati Hospital's commitment to pioneering advanced heart care and providing hope to patients with challenging diagnoses. Sinus of Valsalva Aneurysm (SOVA) is an exceptionally rare condition, characterized by the abnormal expansion of the aortic root due to weak elastic tissue. Aneurysms of the Sinus of Valsalva are observed in approximately 0.09% of the general population and are often associated with congenital heart defects. They predominantly arise from the right coronary sinus (70% of cases), followed by the non-coronary sinus (25%), with occurrences from the left coronary sinus being extremely

rare. While individual SOVAs are uncommon, multiple aneurysms are even rarer, with only 18 reported cases globally, six of which have occurred in India. Ms. Patil's congenital condition posed significant risks, including the potential for rupture, which can be life-threatening without early intervention. Seema Ravindra Patil, a 34-year-old from Jalgaon, Maharashtra, had been struggling with breathlessness for a long time. Her condition worsened, and she was admitted to the hospital in an emergency. Tests, including an echocardiogram and CT scan, showed severe leakage in her aortic valve and some abnormal bulging in the aorta. This complicated issue required advanced care, hence family decided to bring her to Mumbai where they came to know about Dr. Pavan Kumar, a cardiovascular surgeon at Lilavati Hospital and Research Centre. The team at Lilavati Hospital performed a complex surgical procedure to repair the aneurysms, restoring normal cardiac function and providing the patient with a new lease on life. *Dr. Pavan Kumar, Cardiovascular Surgeon at Lilavati Hospital,* said This patient came in with a serious heart condition. Her tests showed she had two large aneurysms and a leaking aortic valve.