

Press Release

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## Lilavati Hospital pioneers India's first Intravascular Ultrasound-guided TAVR procedure with Edwards Sapien III Resilia Valve

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 By Pharmautility September 9, 2025

Mumbai, 8th September 2025 – Lilavati Hospital has emerged as one of the first hospitals in the country to successfully perform an Intravascular Ultrasound (IVUS)-guided Transcatheter Aortic Valve Replacement (TAVR) procedure using the Edwards Sapien III Resilia valve.

The landmark procedure was conducted on a 77-year-old patient from Surat suffering from severe aortic stenosis, who was deemed unfit for open-heart surgery due to age, prior heart surgeries, multiple stents, and other complications.

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### The Procedure

- Led by Dr. Ravinder Singh Rao and team, the procedure was performed through a **minimally invasive approach** from the patient's right groin.
  - IVUS technology was used to evaluate the diseased aortic valve in real time, ensure accurate placement, and optimize the expansion of the newly implanted Resilia valve.
  - This approach significantly reduced surgical risks while enabling precise deployment and **enhanced long-term patient outcomes**.
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# Key Benefits of Edwards Sapien III Resilia Valve & IVUS-Guided TAVR



Longer durability – Preclinical studies demonstrate enhanced valve longevity with Resilia tissue  
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- **Larger valve area** – Provides superior blood flow, reducing heart pressure and improving function.
- **Optimized outcomes** – IVUS allows real-time visualization for safe and maximum expansion.
- **Minimally invasive** – Groin-based access avoids open surgery, enabling faster recovery and immediate patient responsiveness.

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## Expert Insights

Dr. Ravinder Singh Rao, MD, DM, FACC, Interventional Structural Cardiologist (TAVR expert), Lilavati Hospital:

“With one of the highest experiences in TAVR procedures in the country, Lilavati Hospital has consistently delivered safe and effective outcomes, even in complex cases. By integrating IVUS with the Edwards Sapien III Resilia valve, we’ve set a new benchmark in precision and patient safety.”

Dr. Nitin Gokhale, Head of Department, Lilavati Hospital:

“Our strength lies in a team-based approach where highly skilled specialists and dedicated staff collaborate to ensure safe outcomes. This reinforces our focus on patient-centric care.”

Dr. Niraj Uttamani, COO, Lilavati Hospital:

“At Lilavati, our mission is to bring global healthcare innovations to India. The success of IVUS-guided TAVR with Resilia valve reaffirms our role as an excellence center for complex cardiac treatments.”

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## Proven Clinical Outcomes at Lilavati Hospital (TAVR Program)

- Procedural mortality: 0.06%
- Pacemaker requirement: Minimal
- Stroke risk: < 0.05%

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## Strengthening Cardiac & Diagnostic Care

- Lilavati Hospital continues to build on its legacy of advanced technologies.
- Recently installed Mumbai’s first OMEGA 3T MRI, enhancing diagnostic excellence.
- With continuous adoption of global innovations, Lilavati remains a leader in safe, effective, and advanced healthcare delivery.

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## About Lilavati Hospital & Research Centre

Established in 1997 by the Lilavati Kirtilal Mehta Medical Trust, Lilavati Hospital is among India’s most trusted multi-specialty tertiary care institutions.

- **Location:** Bandra, Mumbai
- **Capacity:** 323-bed facility with one of the city's largest ICUs
- **Team:** Over 300 consultants and 1,800 healthcare professionals

• **Specialties:** More than 40, recognized for excellence in cardiology, oncology, neurology, orthopedics, and more

- **Ethos:** “*Sarvetra Sukhinah: Santu, Sarve Santu Niramaya*” (“Let all be blissful, let all stay healthy”)
- **Commitment:** More than Healthcare, Human Care

For more information, visit: [www.lilavatihospital.com](http://www.lilavatihospital.com) (<https://www.lilavatihospital.com/>)

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## Media Queries

Sahil Raj | [sahil.raj@kaizzencomm.com](mailto:sahil.raj@kaizzencomm.com) | +91 9930879682

Sandeep Singh | [sandeep.singh@kaizzencomm.com](mailto:sandeep.singh@kaizzencomm.com) | +91 8652328232

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