

In the news – International

Australian Man Survives 100 Days with World's First Artificial Titanium Heart

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In a significant advancement of life-support cardiac technology, an Australian patient has become the first human to survive 100 days with a titanium artificial heart.

Following a life-threatening heart failure, a 40-year-old patient underwent the BiVACOR Total Artificial Heart (TAH) implant at the St. Vincent's Hospital in Sydney in November 2024.

In this year February, he became the world's first patient to be discharged from the hospital with a functioning artificial heart. He subsequently resided at home with the device until the donor heart was acquired in the month of March'25. Following a successful transplant, he is now recovering nicely according to a joint statement from St. Vincent's Hospital, Monash University, and BiVACOR. Built to be robust and could be a long-term fix for patients with end-stage heart failure, the BiVACOR TAH,

made of titanium, has a single magnetically suspended rotor that replaces the two ventricles of the failing human heart.

With the five patients receiving the implant, The BiVACOR Total Artificial Heart has already undergone the initial testing through the U.S. FDA's Early Feasibility Study. July 2024 marked the first case when a 58-year-old man was kept alive at Texas Medical Center for 8 days until the availability of a donor heart.

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