

South & Central America Heart Transplant Market Forecast to 2030 - Regional Analysis - By Surgery Type (Orthotopic Heart Transplant and Heterotopic Heart Transplant), Type (Donor Live Heart and Artificial Hearts), and End User (Hospitals, Cardiac Centers, and Others)

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Abstracts

The South & Central America heart transplant market is expected to grow from US\$ 611.18 million in 2022 to US\$ 1,315.97 million by 2030. It is estimated to grow at a CAGR of 10.1% from 2022 to 2030.

Use of AI in Transplantation Procedures Fuels South & Central America Heart Transplant Market

A uniquely designed system backed by artificial intelligence (AI) facilitates the detection of early signs and seriousness of the host rejection post-heart transplantation. The endomyocardial biopsy (EMB) screening signifies the standard of care for identifying allograft rejections after a heart transplant. In 2022, a new AI system was designed known as the Cardiac Rejection Assessment Neural Estimator (CRANE), which can be used in tandem with medical assessments for rapid and precise diagnosis. CRANE also helps reduce differences regarding the presence and severity of heart rejection in the host body. It is a deep learning-based AI system for the automated assessment of gigapixel whole-slide images obtained from EMBs. In 2020, the National Institute of Health granted US\$ 3.2 million to studies based on the exploration of the capabilities of AI in heart transplants. With this grant, researchers from Perelman School of Medicine (the University of Pennsylvania), Case Western Reserve University, Cleveland Clinic, and Cedars-Sinai Medical Center aimed to study what causes the rejection of a new

heart and how to manage it. They used AI to analyze cardiac biopsy tissue images, finding the types of immune cells that play an instrumental role in new heart rejection. Thus, the adoption of AI in heart transplantation procedures is likely to bring new trends in the market in the coming years.

South & Central America Heart Transplant Market Overview

The heart transplant market in South & Central America is sub segmented into Brazil, Argentina, and the Rest of South & Central America. Developing healthcare facilities, increasing incidence of hypertension, a rise in the geriatric population, and the surging incidence of kidney and heart diseases are the factors that are expected to fuel the heart transplant market in South & Central America. More than half of the rejections (59%) were due to the clinical conditions of the donors, including old age, comorbidities, and infections. According to the Brazilian government, from January to November 2021, more than 12,000 organ transplants were performed in Brazil. Children were also severely affected. In 2022, 583 children aged 0-17 years were operated on for organ transplantation, same as that in 2021. ~641 new children entered the waiting list, and 66 died while waiting for an organ.

South & Central America Heart Transplant Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Heart Transplant Market Segmentation

The South & Central America heart transplant market is segmented into surgery type, type, end user, and country.

Based on surgery type, the South & Central America heart transplant market is bifurcated into orthotopic heart transplantation and heterotopic heart transplantation. The orthotopic heart transplantation segment held a larger share of the South & Central America heart transplant market in 2022.

In terms of type, the South & Central America heart transplant market is bifurcated into donor live heart and artificial heart. The donor live heart segment held a larger share of the South & Central America heart transplant market in 2022. Further, artificial heart segment is categorized into ventricular assisted device and total artificial heart.

Based on end user, the South & Central America heart transplant market is segmented into hospitals, cardiac centers, and others. The hospitals segment held the largest share

of the South & Central America heart transplant market in 2022.

Based on country, the South & Central America heart transplant market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America heart transplant market in 2022.

Terumo Corp, Abbott Laboratories, SynCardia Systems LLC, LivaNova Plc, and Calon Cardio-Technology Ltd are some of the leading companies operating in the South & Central America heart transplant market.

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