

# **South & Central America Pectus Bar Market Forecast to 2031 - Regional Analysis - by Type (Titanium and Stainless Steel) and End User (Hospitals, Specialty Clinics, and Others)**

<https://marketpublishers.com/r/S12F615C1AB2EN.html>

Date: March 2025

Pages: 47

Price: US\$ 3,450.00 (Single User License)

ID: S12F615C1AB2EN

## **Abstracts**

The South & Central America pectus bar market was valued at US\$ 1,954.32 thousand in 2023 and is expected to reach US\$ 2,332.64 thousand by 2031; it is estimated to register a CAGR of 2.2% from 2023 to 2031.

### **Use of 3D Printing for Customized Pectus Bars Bolsters South & Central America Pectus Bar Market**

The site of chest wall insertion and bar shape are currently contoured and placed on the basis of the surgeon's judgment. Bar length is determined by placing a bar-shaped phantom above the patient's external contour while considering it should cover the space between both midaxillary lines. Sometimes, bar shape is determined based on external chest morphology and thoracic CT-scan. However, planning and standardization of the repair of complex chest wall malformations is challenging, given their inherent heterogeneity. Various studies are going on for the use of technology, especially virtual surgical planning and 3D technology, to overcome complex chest wall malformations. Virtual surgical planning has become an invaluable tool in several fields, with the goal of decreasing human error that would lead to improper fit of surgical devices and subsequent possible complications. The 3D virtual reconstruction from a computed tomography (CT) chest scan enables the surgical team to elaborate a detailed preoperative plan, including the number of implants required, their direction, and their entry points to the thoracic cavity. According to the study "Initial experience with 3D printing in the use of customized Nuss bars in pectus excavatum surgery," published by the National Institutes of Health (NIH), in 2021, the 3D preoperative design

of pectus bars with customized shape and size facilitates surgical planning. It also allows for the most optimal and accurate morphological repair possible, according to patient anatomy, thus reducing the need for additional surgical procedures. Thus, the growing focus on the use of 3D printing technology for customizing pectus bars acts as an opportunity for the pectus bars market growth.

### South & Central America Pectus Bar Market Overview

As per an article published by the American Association for the Advancement of Science in March 2024, the prevalence of pectus excavatum in Brazil is 1.2%, and the condition is expected to affect 1 in 200 live births. Severe cases of this rare disorder may be characterized by the breastbone compressing the heart and lungs. The deformity can be treated by surgically placing an implant in the chest cavity to push the sternum forward. Brazil has a well-established medical device industry, which is regulated by the Brazilian National Health Surveillance Agency (ANVISA). Pectus bar has been registered with ANVISA, which enables the safe use of various surgical devices across the country. Further, the National Institute of Metrology, Standardization, and Industrial Quality (INMETRO) sets the standards and guidance for the medical device industry players. A novel prosthetic device developed by researchers at the University of S?o Paulo's Heart Institute (INCOR) and a Brazilian company with FAPESP's support reflects the rising awareness and research on pectus excavatum in the country. The country has the most significant medical equipment industry in the entire South & Central America, and it is the largest importer of medical equipment for the US. Moreover, the development of new and innovative products by various organizations is expected to contribute to the pectus bar market growth. In March 2024, the researchers at the University of S?o Paulo's Heart Institute (INCOR) developed a biocompatible prosthetic device in collaboration with a Brazilian company FAPESP. Thus, the increasing prevalence of pectus excavatum and the presence of a well-developed and regulated medical device industry are the prime factors driving the pectus bar market growth in Brazil.

### South & Central America Pectus Bar Market Revenue and Forecast to 2031 (US\$ Thousand)

### South & Central America Pectus Bar Market Segmentation

The South & Central America pectus bar market is categorized into type, end user, and country.

Based on type, the South & Central America pectus bar market is bifurcated into titanium and stainless steel. The titanium segment held a larger market share in 2023.

In terms of end user, the South & Central America pectus bar market is segmented into hospitals, specialty clinics, and others. The hospitals segment held a larger market share in 2023.

By country, the South & Central America pectus bar market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America pectus bar market share in 2023.

KLS Martin Group, Biotech GmbH, IDEAR SRL, Zimmer Biomet Holdings Inc, and Ventura Medical Technologies are some of the leading companies operating in the South & Central America pectus bar market.

#### Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the South & Central America pectus bar market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the South & Central America pectus bar market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth South & Central America market trends and outlook coupled with the factors driving the South & Central America pectus bar market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

## The List of Companies - South & Central America Pectus Bar Market

KLS Martin Group

Biotech GmbH

IDEAR SRL

Zimmer Biomet Holdings Inc

Ventura Medical Technologies

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