

South & Central America Clinic Casting and Splinting Products Market Forecast to 2030 – Regional Analysis – by Product {Casting (Casts, Tapes, Cutters, and Casting Accessories) and Splinting (Splints and Splinting Accessories)}, Application (Acute Fractures or Sprains, Tendon and Ligament Injuries, and Others), and Material (Plaster of Paris, Fiberglass, and Others)

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### **Abstracts**

The South & Central America clinic casting and splinting products market is expected to grow from US\$ 64.74 million in 2022 to US\$ 92.60 million by 2030. It is estimated to grow at a CAGR of 4.6% from 2022 to 2030.

Advancements in 3D Technology in Casting and Splinting Fuels South & Central America Clinic Casting and Splinting Products Market

The rapid development of 3D printing implies fast penetration 3D printing techniques into the healthcare system, especially for treating fractures. In rehabilitation tool manufacturing, 3D printing technology is applied to orthopedic cast fabrication to create patient-specific features with an appropriate fit and a ventilated structure. The novel casting technology heals the fracture effectively without casting complications. The 3D-printed cast is customized and lightweight.

Patient-specific and 3D-printed casts develop proper fit according to the shape of the injured arm. Thus, the risk of stress concentration can be reduced since large contact areas are created. 3D printing makes the fabrication process simpler and in shorter



period, especially in a customized design. On that account, the application of 3D printing in biomedical engineering is growing and promising to be practiced in the future. Also, the customizable hand cast made by using 3D printing technique is reliable and provides comfort and satisfaction to the patients. 3D printing is an evolving technology that has a potential application in treating pediatric forearm fractures. These factors can lead to better patient compliance. The 3D-printed cast proved to be superior in terms of satisfaction, comfort, and perceived function as compared to the fiberglass. Thus, the above-mentioned factors would create significant opportunities for the South & Central America clinic casting and splinting products market in the coming years.

South & Central America Clinic Casting and Splinting Products Market Overview

The South & Central America clinic casting and splinting products market is segmented into Brazil, Argentina, and the Rest of South & Central America. The market is likely to propel during the forecast period owing to the growing advancements in healthcare infrastructure that directly impacts the economy of Brazil to a large extent. The cost-saving advantages and product development are also cited as major factors for clinic casting and splinting products service providers to establish bases in South & Central America. As per Brazil's Ministry of Health, by 2030, Brazil is anticipated to rank fifth in terms of geriatric population worldwide. According to Pan American Health Organization (PAHO), in 2022, Brazil had more than 30 million people aged above 60, which represents 30% of the total population. The number of people aged above 60 is expected to reach ~50 million, which is expected to represent 24% of the total population of Brazil by 2050. According to IOF, the lifetime prevalence of fractures is 37.5% among men and 21% among women. The geriatric population is at a greater risk of fractures due to low bone density; this, in turn, is expected to boost the demand for clinic casting and splinting products.

South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Clinic Casting and Splinting Products Market Segmentation

The South & Central America clinic casting and splinting products market is segmented into product, application, material, and country.

Based on product, the South & Central America clinic casting and splinting products market is segmented into casting and splinting. The casting segment held a larger share of the South & Central America clinic casting and splinting products market in 2022. The



casting is sub-segmented into casts, tapes, cutters, and casting accessories. The splinting segment is further segmented into splints and splinting accessories.

Based on application, the South & Central America clinic casting and splinting products market is segmented into acute fractures or sprains, tendon and ligament injuries, and others. The acute fractures segment held the largest share of the South & Central America clinic casting and splinting products market in 2022.

Based on material, the South & Central America clinic casting and splinting products market is segmented into Plaster of Paris, fiberglass, and others. The Plaster of Paris segment held the largest share of the South & Central America clinic casting and splinting products market in 2022.

Based on country, the South & Central America clinic casting and splinting products market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America clinic casting and splinting products market in 2022.

3M Co, DeRoyal Industries Inc, Essity AB, Ossur hf, and Zimmer Biomet Holdings Inc are some of the leading companies operating in the South & Central America clinic casting and splinting products market.



### **Contents**

#### 1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### 2. EXECUTIVE SUMMARY

2.1 Key Insights

#### 3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

## 4. SOUTH & CENTRAL AMERICA CLINIC CASTING AND SPLINTING PRODUCTS MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
  - 4.2.1 South & Central America PEST Analysis

### 5. SOUTH & CENTRAL AMERICA CLINIC CASTING AND SPLINTING PRODUCTS MARKET - KEY INDUSTRY DYNAMICS

- 5.1 Market Drivers
  - 5.1.1 Rising Prevalence of Musculoskeletal Conditions
  - 5.1.2 High Prevalence of Age-Related Orthopedic Disorders
- 5.2 Key Market Restraints
  - 5.2.1 Complications Related to Casting and Splinting
- 5.3 Key Market Opportunities
  - 5.3.1 Advancements in 3D Technology in Casting and Splinting
- 5.4 Future Trends
  - 5.4.1 Rising Adoption of Fiberglass Material for Casting and Splinting
- 5.5 Impact Analysis

### 6. CLINIC CASTING AND SPLINTING PRODUCTS MARKET - SOUTH & CENTRAL



#### **AMERICA MARKET ANALYSIS**

6.1 South & Central America Clinic Casting and Splinting Products Market Revenue (US\$ Mn), 2022 – 2030

## 7. SOUTH & CENTRAL AMERICA CLINIC CASTING AND SPLINTING PRODUCTS MARKET – REVENUE AND FORECAST TO 2030 – BY PRODUCT

- 7.1 Overview
- 7.2 South & Central America Clinic Casting and Splinting Products Market Revenue Share, by Product 2022 & 2030 (%)
- 7.3 Casting
  - 7.3.1 Overview
- 7.3.2 Casting: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
  - 7.3.2.1 Casts
    - 7.3.2.1.1 Overview
- 7.3.2.1.2 Casts: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
  - 7.3.2.2 Tapes
    - 7.3.2.2.1 Overview
- 7.3.2.2.2 Tapes: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
  - 7.3.2.3 Cutters
  - 7.3.2.3.1 Overview
- 7.3.2.3.2 Cutters: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
  - 7.3.2.4 Casting Accessories
    - 7.3.2.4.1 Overview
- 7.3.2.4.2 Casting Accessories: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
- 7.4 Splinting
  - 7.4.1 Overview
- 7.4.2 Splinting: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
  - 7.4.2.1 Splints
    - 7.4.2.1.1 Overview
- 7.4.2.1.2 Splints: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)



### 7.4.2.2 Splinting Accessories

- 7.4.2.2.1 Overview
- 7.4.2.2.2 Splinting Accessories: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)

# 8. SOUTH & CENTRAL AMERICA CLINIC CASTING AND SPLINTING PRODUCTS MARKET – REVENUE AND FORECAST TO 2030 – BY APPLICATION

- 8.1 Overview
- 8.2 South & Central America Clinic Casting and Splinting Products Market Revenue Share, by Application 2022 & 2030 (%)
- 8.3 Acute Fracture or Sprains
  - 8.3.1 Overview
- 8.3.2 Acute Fracture or Sprains: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
- 8.4 Tendon and Ligament Injuries
  - 8.4.1 Overview
- 8.4.2 Tendon and Ligament Injuries: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
- 8.5 Others
  - 8.5.1 Overview
- 8.5.2 Others: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)

# 9. SOUTH & CENTRAL AMERICA CLINIC CASTING AND SPLINTING PRODUCTS MARKET – REVENUE AND FORECAST TO 2030 – BY MATERIAL

- 9.1 Overview
- 9.2 South & Central America Clinic Casting and Splinting Products Market Revenue Share, by Material 2022 & 2030 (%)
- 9.3 Plaster of Paris
  - 9.3.1 Overview
- 9.3.2 Plaster of Paris: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
- 9.4 Fiberglass
  - 9.4.1 Overview
- 9.4.2 Fiberglass: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
- 9.5 Others



- 9.5.1 Overview
- 9.5.2 Others: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)

### 10. SOUTH & CENTRAL AMERICA CLINIC CASTING AND SPLINTING PRODUCTS MARKET – REVENUE AND FORECAST TO 2030 – COUNTRY ANALYSIS

- 10.1 South & Central America Clinic Casting and Splinting Products Market
  - 10.1.1 Overview
- 10.1.2 South & Central America Clinic Casting and Splinting Products Market Share by Country 2022 & 2030, (%)
- 10.1.2.1 Brazil: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
  - 10.1.2.1.1 Overview
- 10.1.2.2 Brazil: South & Central America Clinic Casting and Splinting Products Market- Revenue and Forecasts to 2030 (US\$ Million)
- 10.1.2.2.1 Brazil: South & Central America Clinic Casting and Splinting Products Market, by Product, 2020–2030 (US\$ Million)
- 10.1.2.2.1.1 Brazil: South & Central America Clinic Casting and Splinting Products Market, for Casting by Product, 2020–2030 (US\$ Million)
- 10.1.2.2.1.2 Brazil: South & Central America Clinic Casting and Splinting Products Market, for Splinting by Product, 2020–2030 (US\$ Million)
- 10.1.2.2.2 Brazil: South & Central America Clinic Casting and Splinting Products Market, By Application, 2020–2030 (US\$ Million)
- 10.1.2.2.3 Brazil: South & Central America Clinic Casting and Splinting Products Market, By Material, 2020–2030 (US\$ Million)
- 10.1.2.3 Argentina: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
  - 10.1.2.3.1 Overview
- 10.1.2.4 Argentina: South & Central America Clinic Casting and Splinting Products Market- Revenue and Forecasts to 2030 (US\$ Million)
- 10.1.2.4.1 Argentina: South & Central America Clinic Casting and Splinting Products Market, by Product, 2020–2030 (US\$ Million)
- 10.1.2.4.1.1 Argentina: South & Central America Clinic Casting and Splinting Products Market, for Casting by Product, 2020–2030 (US\$ Million)
- 10.1.2.4.1.2 Argentina: South & Central America Clinic Casting and Splinting Products Market, for Splinting by Product, 2020–2030 (US\$ Million)
- 10.1.2.4.2 Argentina: South & Central America Clinic Casting and Splinting Products Market, By Application, 2020–2030 (US\$ Million)



- 10.1.2.4.3 Argentina: South & Central America Clinic Casting and Splinting Products Market, By Material, 2020–2030 (US\$ Million)
- 10.1.2.5 Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
  - 10.1.2.5.1 Overview
- 10.1.2.6 Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market Revenue and Forecast to 2030 (US\$ Million)
- 10.1.2.6.1 Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, by Product, 2020–2030 (US\$ Million)
- 10.1.2.6.1.1 Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, for Casting by Product, 2020–2030 (US\$ Million)
- 10.1.2.6.1.2 Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, for Splinting by Product, 2020–2030 (US\$ Million)
- 10.1.2.6.2 Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, By Application, 2020–2030 (US\$ Million)
- 10.1.2.6.3 Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, By Material, 2020–2030 (US\$ Million)

## 11. SOUTH & CENTRAL AMERICA CLINIC CASTING AND SPLINTING PRODUCTS MARKET-INDUSTRY LANDSCAPE

- 11.1 Overview
- 11.2 Recent Growth Strategies
- 11.2.1 Overview

### **12. COMPANY PROFILES**

- 12.1 DeRoyal Industries Inc
  - 12.1.1 Key Facts
  - 12.1.2 Business Description
  - 12.1.3 Products and Services
  - 12.1.4 Financial Overview
  - 12.1.5 SWOT Analysis
  - 12.1.6 Key Developments
- 12.2 3M Co
- 12.2.1 Key Facts
- 12.2.2 Business Description
- 12.2.3 Products and Services



- 12.2.4 Financial Overview
- 12.2.5 SWOT Analysis
- 12.2.6 Key Developments
- 12.3 Essity AB
  - 12.3.1 Key Facts
  - 12.3.2 Business Description
  - 12.3.3 Products and Services
  - 12.3.4 Financial Overview
  - 12.3.5 SWOT Analysis
  - 12.3.6 Key Developments
- 12.4 Zimmer Biomet Holdings Inc
  - 12.4.1 Key Facts
  - 12.4.2 Business Description
  - 12.4.3 Products and Services
  - 12.4.4 Financial Overview
  - 12.4.5 SWOT Analysis
  - 12.4.6 Key Developments
- 12.5 Ossur hf
  - 12.5.1 Key Facts
  - 12.5.2 Business Description
  - 12.5.3 Products and Services
  - 12.5.4 Financial Overview
  - 12.5.5 SWOT Analysis
  - 12.5.6 Key Developments

### 13. APPENDIX

- 13.1 About Us
- 13.2 Glossary of Terms



### **List Of Tables**

#### LIST OF TABLES

Table 1. South & Central America Clinic Casting and Splinting Products Market Segmentation

Table 2. Brazil: South & Central America Clinic Casting and Splinting Products Market, by Product – Revenue and Forecast to 2030 (US\$ Million)

Table 3. Brazil: South & Central America Clinic Casting and Splinting Products Market, for Casting by Product – Revenue and Forecast to 2030 (US\$ Million)

Table 4. Brazil: South & Central America Clinic Casting and Splinting Products Market, for Splinting by Product – Revenue and Forecast to 2030 (US\$ Million)

Table 5. Brazil: South & Central America Clinic Casting and Splinting Products Market, By Application – Revenue and Forecast to 2030 (US\$ Million)

Table 6. Brazil: South & Central America Clinic Casting and Splinting Products Market, By Material – Revenue and Forecast to 2030 (US\$ Million)

Table 7. Argentina: South & Central America Clinic Casting and Splinting Products Market, by Product – Revenue and Forecast to 2030 (US\$ Million)

Table 8. Argentina: South & Central America Clinic Casting and Splinting Products Market, for Casting by Product – Revenue and Forecast to 2030 (US\$ Million)

Table 9. Argentina: South & Central America Clinic Casting and Splinting Products Market, for Splinting by Product – Revenue and Forecast to 2030 (US\$ Million)

Table 10. Argentina: South & Central America Clinic Casting and Splinting Products Market, By Application – Revenue and Forecast to 2030 (US\$ Million)

Table 11. Argentina: South & Central America Clinic Casting and Splinting Products Market, By Material – Revenue and Forecast to 2030 (US\$ Million)

Table 12. Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, by Product – Revenue and Forecast to 2030 (US\$ Million)

Table 13. Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, for Casting by Product – Revenue and Forecast to 2030 (US\$ Million)

Table 14. Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, for Splinting by Product – Revenue and Forecast to 2030 (US\$ Million)

Table 15. Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, By Application – Revenue and Forecast to 2030 (US\$ Million)

Table 16. Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market, By Material – Revenue and Forecast to 2030 (US\$ Million)



Table 17. Recent Growth Strategies in Clinic Casting and Splinting Products Market Table 18. Glossary of Terms, Digital Thoracic Drainage Devices Market



### **List Of Figures**

#### LIST OF FIGURES

Figure 1. South & Central America Clinic Casting and Splinting Products Market Segmentation, By Country

Figure 2. South & Central America - PEST Analysis

Figure 3. South & Central America Clinic Casting and Splinting Products Market: Key Industry Dynamics

Figure 4. South & Central America Clinic Casting and Splinting Products Market: Impact Analysis of Drivers and Restraints

Figure 5. South & Central America Clinic Casting and Splinting Products Market Revenue (US\$ Mn), 2020 – 2030

Figure 6. South & Central America Clinic Casting and Splinting Products Market Revenue Share, by Product 2022 & 2030 (%)

Figure 7. Casting: South & Central America Clinic Casting and Splinting Products

Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 8. Casts: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 9. Tapes: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 10. Cutters: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 11. Casting Accessories: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 12. Splinting: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 13. Splints: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 14. Splinting Accessories: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 15. South & Central America Clinic Casting and Splinting Products Market Revenue Share, by Application 2022 & 2030 (%)

Figure 16. Acute Fracture or Sprains: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 17. Tendon and Ligament Injuries: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 18. Others: South & Central America Clinic Casting and Splinting Products



Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 19. South & Central America Clinic Casting and Splinting Products Market Revenue Share, by Material 2022 & 2030 (%)

Figure 20. Plaster of Paris: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 21. Fiberglass: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 22. Others: South & Central America Clinic Casting and Splinting Products Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 23. South & Central America: South & Central America Clinic Casting and Splinting Products Market, By Key Country – Revenue (2022) (US\$ Million)

Figure 24. South & Central America Clinic Casting and Splinting Products Market Share by Country – 2022 & 2030, (%)

Figure 25. Brazil: South & Central America Clinic Casting and Splinting Products Market- Revenue and Forecasts to 2030 (US\$ Million)

Figure 26. Argentina: South & Central America Clinic Casting and Splinting Products Market- Revenue and Forecasts to 2030 (US\$ Million)

Figure 27. Rest of South & Central America: South & Central America Clinic Casting and Splinting Products Market - Revenue and Forecast to 2030 (US\$ Million)



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