

Vascular Sealing Medical Glue Market By Procedure (Revascularization, Others) , By End User (Hospitals, Specialty Clinics, Ambulatory Surgical Centers) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Report description:

The vascular sealing medical glue market was valued at \$0.7 billion in 2023, and is projected to reach \$1.4 billion by 2033, growing at a CAGR of 7.3% from 2024 to 2033.

Vascular sealing medical glue is a surgical adhesive that possesses high adhesive and hemostatic properties, and is used to seal and reinforce tissues. These adhesives play a pivotal role in creating functional connections between damaged tissues and between tissues and implanted biomaterials. They are majorly developed to minimize the use of surgical sutures and mechanical methods of tissue fusion, which are useful in conventional surgeries. This is attributed to the fact that vascular sealing glues promote tissue regeneration and healing, mitigate the risk of infection, and minimize tissue trauma as compared to conventional methods. Natural medical adhesives available in the market include fibrin adhesives and collagen-based products, which are highly effective in adhesion.

The growth of the global vascular sealing medical glue market is majorly driven by alarming rise in prevalence of cardiovascular diseases and corresponding increase in need for surgeries, such as angioplasty and coronary artery bypass grafting, are boosting the demand for vascular sealing medical glue. According to the World Heart Federation, cardiovascular diseases are the leading cause of death worldwide as compared to any other cause. Approximately 20.5 million die every year due to cardiovascular diseases. Of these deaths, 85% are due to coronary heart diseases (e.g., heart attacks) and cerebrovascular diseases (e.g., strokes). Moreover, increase in geriatric population significantly contributes toward the growth of the market. This is attributed to the fact that aged individuals are highly susceptible to cardiac diseases and often require procedures to address issues such as varicose veins and atherosclerosis, thus increasing the need for vascular sealing glues. As per the article published by the Revista Espanola de Cardiologia-the official publication of the Spanish Society of Cardiology-coronary heart disease is the leading cause of death in 81% of adults aged 65 years or older. Furthermore, increase in preference for minimally invasive procedures among patients and healthcare providers due to quicker recovery times and reduced hospital stays fosters the growth of the market.

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However, safety concerns associated with vascular sealing medical glue hamper the growth of the market. For instance, some adhesives are cytotoxic and are poorly absorbed, which limit their demand in healthcare settings. Furthermore, inability to medical adhesives to provide adequate and immediate seal, increased risk of infection, and delayed healing act as the key deterrent factors of the market. On the contrary, to reduce the risk of infection at the surgical sites, manufacturers are developing vascular sealing medical glue with antimicrobial properties, thus ensuring post-operative care and patient safety. In addition, continuous innovations in the formulation of medical glues to enhance their adhesive strength are expected to offer lucrative opportunities for the expansion of the market during the forecast period.

The global vascular sealing medical glue market is segmented into procedure, end user, and region. By procedure, the market is categorized into revascularization and others. On the basis of end user, it is divided into hospitals, specialty clinics, and ambulatory surgical centers. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

- By procedure, the revascularization segment dominated the market share in 2023.
- On the basis of end user, the hospitals segment exhibited the highest growth in 2023.
- Region wise, North America lead the market in 2023; however, Asia-Pacific is expected to register highest CAGR during the forecast period.

Competition Analysis

Competitive analysis and profiles of the major players in the global vascular sealing medical glue market include Baxter International Inc., Becton, Dickinson and Company, Artivion, Inc., Success Bio-tech, Integra LifeSciences Holdings Corporation, Stryker Corporation, Abbott Laboratories, Terumo Corporation, Johnson & Johnson, and Medtronic. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Key Market Segments

By Procedure

- Revascularization
- Others

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By End User

- Hospitals
- Specialty Clinics
- Ambulatory Surgical Centers

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- France
- UK
- Italy
- Spain
- Rest of Europe
- Asia-Pacific
- Japan
- China
- Australia
- India
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Brazil
- Saudi Arabia
- South Africa
- Rest of LAMEA
- Key Market Players
- Baxter International Inc.
- Becton, Dickinson and Company
- Artivion, Inc.
- Success Bio-tech
- Integra LifeSciences Holdings Corporation
- Stryker Corporation
- Abbott Laboratories
- Terumo Corporation
- Johnson & Johnson
- Medtronic

Table of Contents:

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research

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1.4.2. Secondary Research

1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

3.1. Market Definition and Scope

3.2. Key Findings

3.2.1. Top Investment Pockets

3.2.2. Top Winning Strategies

3.3. Porter's Five Forces Analysis

3.3.1. Bargaining Power of Suppliers

3.3.2. Threat of New Entrants

3.3.3. Threat of Substitutes

3.3.4. Competitive Rivalry

3.3.5. Bargaining Power among Buyers

3.4. Market Dynamics

3.4.1. Drivers

3.4.2. Restraints

3.4.3. Opportunities

CHAPTER 4: VIRTUAL AND AUGMENTED REALITY IN HEALTHCARE MARKET, BY COMPONENT

4.1. Market Overview

4.1.1 Market Size and Forecast, By Component

4.2. Hardware

4.2.1. Key Market Trends, Growth Factors and Opportunities

4.2.2. Market Size and Forecast, By Region

4.2.3. Market Share Analysis, By Country

4.3. Software

4.3.1. Key Market Trends, Growth Factors and Opportunities

4.3.2. Market Size and Forecast, By Region

4.3.3. Market Share Analysis, By Country

4.4. Services

4.4.1. Key Market Trends, Growth Factors and Opportunities

4.4.2. Market Size and Forecast, By Region

4.4.3. Market Share Analysis, By Country

CHAPTER 5: VIRTUAL AND AUGMENTED REALITY IN HEALTHCARE MARKET, BY TECHNOLOGY

5.1. Market Overview

5.1.1 Market Size and Forecast, By Technology

5.2. Augmented Reality

5.2.1. Key Market Trends, Growth Factors and Opportunities

5.2.2. Market Size and Forecast, By Region

5.2.3. Market Share Analysis, By Country

5.3. Virtual Reality

5.3.1. Key Market Trends, Growth Factors and Opportunities

5.3.2. Market Size and Forecast, By Region

5.3.3. Market Share Analysis, By Country

CHAPTER 6: VIRTUAL AND AUGMENTED REALITY IN HEALTHCARE MARKET, BY END USER

6.1. Market Overview

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- 6.1.1 Market Size and Forecast, By End User
- 6.2. Hospitals
 - 6.2.1. Key Market Trends, Growth Factors and Opportunities
 - 6.2.2. Market Size and Forecast, By Region
 - 6.2.3. Market Share Analysis, By Country
- 6.3. Research Institutions
 - 6.3.1. Key Market Trends, Growth Factors and Opportunities
 - 6.3.2. Market Size and Forecast, By Region
 - 6.3.3. Market Share Analysis, By Country
- 6.4. Diagnostic Centers
 - 6.4.1. Key Market Trends, Growth Factors and Opportunities
 - 6.4.2. Market Size and Forecast, By Region
 - 6.4.3. Market Share Analysis, By Country
- 6.5. Clinics
 - 6.5.1. Key Market Trends, Growth Factors and Opportunities
 - 6.5.2. Market Size and Forecast, By Region
 - 6.5.3. Market Share Analysis, By Country
- CHAPTER 7: VIRTUAL AND AUGMENTED REALITY IN HEALTHCARE MARKET, BY REGION
- 7.1. Market Overview
 - 7.1.1 Market Size and Forecast, By Region
- 7.2. North America
 - 7.2.1. Key Market Trends and Opportunities
 - 7.2.2. Market Size and Forecast, By Component
 - 7.2.3. Market Size and Forecast, By Technology
 - 7.2.4. Market Size and Forecast, By End User
 - 7.2.5. Market Size and Forecast, By Country
 - 7.2.6. U.S. Virtual and Augmented Reality in Healthcare Market
 - 7.2.6.1. Market Size and Forecast, By Component
 - 7.2.6.2. Market Size and Forecast, By Technology
 - 7.2.6.3. Market Size and Forecast, By End User
 - 7.2.7. Canada Virtual and Augmented Reality in Healthcare Market
 - 7.2.7.1. Market Size and Forecast, By Component
 - 7.2.7.2. Market Size and Forecast, By Technology
 - 7.2.7.3. Market Size and Forecast, By End User
 - 7.2.8. Mexico Virtual and Augmented Reality in Healthcare Market
 - 7.2.8.1. Market Size and Forecast, By Component
 - 7.2.8.2. Market Size and Forecast, By Technology
 - 7.2.8.3. Market Size and Forecast, By End User
- 7.3. Europe
 - 7.3.1. Key Market Trends and Opportunities
 - 7.3.2. Market Size and Forecast, By Component
 - 7.3.3. Market Size and Forecast, By Technology
 - 7.3.4. Market Size and Forecast, By End User
 - 7.3.5. Market Size and Forecast, By Country
 - 7.3.6. Germany Virtual and Augmented Reality in Healthcare Market
 - 7.3.6.1. Market Size and Forecast, By Component
 - 7.3.6.2. Market Size and Forecast, By Technology

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- 7.3.6.3. Market Size and Forecast, By End User
- 7.3.7. France Virtual and Augmented Reality in Healthcare Market
 - 7.3.7.1. Market Size and Forecast, By Component
 - 7.3.7.2. Market Size and Forecast, By Technology
 - 7.3.7.3. Market Size and Forecast, By End User
- 7.3.8. UK Virtual and Augmented Reality in Healthcare Market
 - 7.3.8.1. Market Size and Forecast, By Component
 - 7.3.8.2. Market Size and Forecast, By Technology
 - 7.3.8.3. Market Size and Forecast, By End User
- 7.3.9. Italy Virtual and Augmented Reality in Healthcare Market
 - 7.3.9.1. Market Size and Forecast, By Component
 - 7.3.9.2. Market Size and Forecast, By Technology
 - 7.3.9.3. Market Size and Forecast, By End User
- 7.3.10. Spain Virtual and Augmented Reality in Healthcare Market
 - 7.3.10.1. Market Size and Forecast, By Component
 - 7.3.10.2. Market Size and Forecast, By Technology
 - 7.3.10.3. Market Size and Forecast, By End User
- 7.3.11. Rest of Europe Virtual and Augmented Reality in Healthcare Market
 - 7.3.11.1. Market Size and Forecast, By Component
 - 7.3.11.2. Market Size and Forecast, By Technology
 - 7.3.11.3. Market Size and Forecast, By End User
- 7.4. Asia-Pacific
 - 7.4.1. Key Market Trends and Opportunities
 - 7.4.2. Market Size and Forecast, By Component
 - 7.4.3. Market Size and Forecast, By Technology
 - 7.4.4. Market Size and Forecast, By End User
 - 7.4.5. Market Size and Forecast, By Country
 - 7.4.6. Japan Virtual and Augmented Reality in Healthcare Market
 - 7.4.6.1. Market Size and Forecast, By Component
 - 7.4.6.2. Market Size and Forecast, By Technology
 - 7.4.6.3. Market Size and Forecast, By End User
 - 7.4.7. China Virtual and Augmented Reality in Healthcare Market
 - 7.4.7.1. Market Size and Forecast, By Component
 - 7.4.7.2. Market Size and Forecast, By Technology
 - 7.4.7.3. Market Size and Forecast, By End User
 - 7.4.8. Australia Virtual and Augmented Reality in Healthcare Market
 - 7.4.8.1. Market Size and Forecast, By Component
 - 7.4.8.2. Market Size and Forecast, By Technology
 - 7.4.8.3. Market Size and Forecast, By End User
 - 7.4.9. India Virtual and Augmented Reality in Healthcare Market
 - 7.4.9.1. Market Size and Forecast, By Component
 - 7.4.9.2. Market Size and Forecast, By Technology
 - 7.4.9.3. Market Size and Forecast, By End User
 - 7.4.10. South Korea Virtual and Augmented Reality in Healthcare Market
 - 7.4.10.1. Market Size and Forecast, By Component
 - 7.4.10.2. Market Size and Forecast, By Technology
 - 7.4.10.3. Market Size and Forecast, By End User

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7.4.11. Rest of Asia-Pacific Virtual and Augmented Reality in Healthcare Market

7.4.11.1. Market Size and Forecast, By Component

7.4.11.2. Market Size and Forecast, By Technology

7.4.11.3. Market Size and Forecast, By End User

7.5. LAMEA

7.5.1. Key Market Trends and Opportunities

7.5.2. Market Size and Forecast, By Component

7.5.3. Market Size and Forecast, By Technology

7.5.4. Market Size and Forecast, By End User

7.5.5. Market Size and Forecast, By Country

7.5.6. Brazil Virtual and Augmented Reality in Healthcare Market

7.5.6.1. Market Size and Forecast, By Component

7.5.6.2. Market Size and Forecast, By Technology

7.5.6.3. Market Size and Forecast, By End User

7.5.7. Saudi Arabia Virtual and Augmented Reality in Healthcare Market

7.5.7.1. Market Size and Forecast, By Component

7.5.7.2. Market Size and Forecast, By Technology

7.5.7.3. Market Size and Forecast, By End User

7.5.8. South Africa Virtual and Augmented Reality in Healthcare Market

7.5.8.1. Market Size and Forecast, By Component

7.5.8.2. Market Size and Forecast, By Technology

7.5.8.3. Market Size and Forecast, By End User

7.5.9. Rest of LAMEA Virtual and Augmented Reality in Healthcare Market

7.5.9.1. Market Size and Forecast, By Component

7.5.9.2. Market Size and Forecast, By Technology

7.5.9.3. Market Size and Forecast, By End User

CHAPTER 8: COMPETITIVE LANDSCAPE

8.1. Introduction

8.2. Top Winning Strategies

8.3. Product Mapping of Top 10 Player

8.4. Competitive Dashboard

8.5. Competitive Heatmap

8.6. Top Player Positioning, 2023

CHAPTER 9: COMPANY PROFILES

9.1. CAE

9.1.1. Company Overview

9.1.2. Key Executives

9.1.3. Company Snapshot

9.1.4. Operating Business Segments

9.1.5. Product Portfolio

9.1.6. Business Performance

9.1.7. Key Strategic Moves and Developments

9.2. GE Healthcare

9.2.1. Company Overview

9.2.2. Key Executives

9.2.3. Company Snapshot

9.2.4. Operating Business Segments

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- 9.2.5. Product Portfolio
- 9.2.6. Business Performance
- 9.2.7. Key Strategic Moves and Developments
- 9.3. Koninklijke Philips N.V.
- 9.3.1. Company Overview
- 9.3.2. Key Executives
- 9.3.3. Company Snapshot
- 9.3.4. Operating Business Segments
- 9.3.5. Product Portfolio
- 9.3.6. Business Performance
- 9.3.7. Key Strategic Moves and Developments
- 9.4. Intuitive Surgical, Inc.
- 9.4.1. Company Overview
- 9.4.2. Key Executives
- 9.4.3. Company Snapshot
- 9.4.4. Operating Business Segments
- 9.4.5. Product Portfolio
- 9.4.6. Business Performance
- 9.4.7. Key Strategic Moves and Developments
- 9.5. Siemens Ltd
- 9.5.1. Company Overview
- 9.5.2. Key Executives
- 9.5.3. Company Snapshot
- 9.5.4. Operating Business Segments
- 9.5.5. Product Portfolio
- 9.5.6. Business Performance
- 9.5.7. Key Strategic Moves and Developments
- 9.6. Eon Reality, Inc
- 9.6.1. Company Overview
- 9.6.2. Key Executives
- 9.6.3. Company Snapshot
- 9.6.4. Operating Business Segments
- 9.6.5. Product Portfolio
- 9.6.6. Business Performance
- 9.6.7. Key Strategic Moves and Developments
- 9.7. Bioflight VR
- 9.7.1. Company Overview
- 9.7.2. Key Executives
- 9.7.3. Company Snapshot
- 9.7.4. Operating Business Segments
- 9.7.5. Product Portfolio
- 9.7.6. Business Performance
- 9.7.7. Key Strategic Moves and Developments
- 9.8. WorldViz
- 9.8.1. Company Overview
- 9.8.2. Key Executives
- 9.8.3. Company Snapshot

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- 9.8.4. Operating Business Segments
- 9.8.5. Product Portfolio
- 9.8.6. Business Performance
- 9.8.7. Key Strategic Moves and Developments
- 9.9. TheraSim Inc
 - 9.9.1. Company Overview
 - 9.9.2. Key Executives
 - 9.9.3. Company Snapshot
 - 9.9.4. Operating Business Segments
 - 9.9.5. Product Portfolio
 - 9.9.6. Business Performance
 - 9.9.7. Key Strategic Moves and Developments
- 9.10. MindMaze
 - 9.10.1. Company Overview
 - 9.10.2. Key Executives
 - 9.10.3. Company Snapshot
 - 9.10.4. Operating Business Segments
 - 9.10.5. Product Portfolio
 - 9.10.6. Business Performance
 - 9.10.7. Key Strategic Moves and Developments

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