

Surgical Sealant And Adhesives - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Surgical Sealant And Adhesives Market size is estimated at USD 2.31 billion in 2024, and is expected to reach USD 3.20 billion by 2029, growing at a CAGR of 6.78% during the forecast period (2024-2029).

Factors driving the market's growth include increasing surgical procedures, rising demand for surgical sealants and adhesives, and technological advancements.

The increasing prevalence and burden of chronic diseases worldwide drive the demand for effective and advanced treatment involving surgical procedures. This is expected to fuel the growth of the surgical sealants and adhesives market over the forecast period. For instance, according to a report published by the American Society of Plastic Surgeons in September 2023, about 26.2 million surgical and minimally invasive cosmetic and reconstructive procedures were performed in the United States in 2022. This accounted for a 19% increase in cosmetic surgery procedures compared to the previous year. This is expected to significantly impact the growth of the surgical sealants and adhesives market during the forecast period.

Similarly, according to the National Heart, Lung, and Blood Institute research study published in June 2022, more than two million people globally have open-heart surgery annually to treat various heart problems. The rising number of heart procedures is boosting the demand for surgical sealants and adhesives. Hence, the high number of heart procedures and yearly surgeries is increasing the demand for surgical sealants and adhesives, which, in turn, is anticipated to boost the growth of the surgical sealants and adhesives market.

Cataract is one of the leading causes of vision loss among the population globally, and it requires surgical procedures. For instance, according to a report published by the Centers for Disease Control and Prevention in August 2023, around 3 million cataract surgeries are performed in the United States, and over 20 million are performed worldwide annually. Moreover, according to a report published by the American Academy of Ophthalmology in November 2023, global cataract surgeries are projected to increase to 50 million by 2050. Thus, with the expected increase in ophthalmology surgeries, the demand for surgical sealants and adhesives, such as cyanoacrylate glues, which are safe and effective alternatives to sutures in small-incision cataract surgeries, is expected to increase, hence driving the market's growth.

Moreover, the volume of knee and hip replacement surgeries has increased in recent years, further boosting the demand for surgical sealants and adhesives. According to an article published in Medscape in October 2023, the cases of knee osteoarthritis that would require surgical procedures as a treatment are expected to grow by 74.9% by 2050. Such an increase in surgical procedures is expected to bolster the growth of the market studied over the forecast period.

Thus, factors such as the increasing prevalence and burden of chronic diseases and the growing demand for surgical adhesives are anticipated to fuel market growth over the coming years. However, reimbursement policies that do not favor surgical sealants and adhesives, as well as the availability of alternative methods, are expected to restrain the growth of the surgical sealants and adhesives market over the forecast period.

Surgical Sealant And Adhesives Market Trends

The General Surgery Segment Is Expected To Secure A Significant Market Share In The Forecast Period

The general surgery segment is expected to hold a significant share of the market over the forecast period owing to factors such as the growing number of abdominal surgeries and rising cases of hernia.

General surgery primarily concentrates on the abdominal region, encompassing the esophagus, stomach, small intestine, large intestine, liver, pancreas, gall bladder, appendix, and bile ducts, as well as frequently addressing conditions related to the thyroid gland. This specialty also involves managing diseases affecting the skin, breast, soft tissue, and peripheral vascular system, alongside performing hernia repairs. Key surgical procedures conducted globally within this field include hysterectomies, gall

bladder surgeries, hernia surgeries, prostatectomies, and cholecystectomies. For instance, according to a report published by the StatPearls Journal in January 2023, in the United States, approximately 300,000 cholecystectomies are performed annually.

Similarly, as per the Scientific Reports in September 2023, it was observed that hysterectomy was the most common major surgery performed among women in India and is mainly seen among females aged 40–45 years, and by 65 years of age, approximately 37–39% of the women undergo this surgery. The prevalence of hysterectomy among women in India and the subsequent need for effective surgical sealants and adhesives to minimize postoperative complications are driving the growth of the market.

Adhesives are essential in general surgeries, as both natural and synthetic polymeric materials form three-dimensional networks that physically or chemically bind to target tissues, serving as hemostats, sealants, or adhesives. With the increasing number of general surgeries, the demand and procurement of adhesives and sealants are projected to rise, given their critical role in surgical procedures. Consequently, this trend is expected to drive market growth. Furthermore, the rising prevalence of hernia occurrences globally is anticipated to stimulate market expansion due to the growing need for surgical sealants and adhesives in hospitals. For instance, according to a Medscape report published in March 2023, abdominal wall hernia repair is one of the most common surgeries, with over 1 million hernia repairs performed annually in the United States, nearly 770,000 of which are inguinal hernia repairs.

The rising prevalence of hernia occurrences worldwide is anticipated to drive growth in the market due to heightened requirements for surgical sealants and adhesives within hospitals. For instance, according to a report published by Medscape in March 2023, abdominal wall hernia repair ranks among the most frequently performed surgeries, with over one million procedures conducted annually in the United States. Of these, inguinal hernia repairs represent nearly 770,000 cases. In addition, about 90% of all inguinal hernia repairs are performed on males. Globally, the projected annual count of these surgeries is anticipated to exceed USD 20 million.

Thus, the segment is expected to grow significantly over the forecast period due to factors such as the rising incidence of hernia cases and a growing number of abdominal surgeries.

North America is Expected to Hold a Significant Market Share Over the Forecast Period

In North America, the United States holds a significant market share, which is primarily attributed to the country's implementation of robust regulatory frameworks and an increasing level of awareness among the population regarding the importance of seeking surgical interventions for both injuries and chronic health conditions.

In recent years, as there has been an increment in sports activities across the country, the number of injuries has also increased. For instance, according to the report published by the American Academy of Orthopaedic Surgeons in March 2023, during 6.7 million sports exposures, a total of 15,531 injuries were recorded, resulting in an overall injury rate of 2.29 per 1,000 Athletic Exposures (AEs). Football exhibited the highest injury rate at 3.96, followed by girls' soccer at 2.65 and boys' wrestling at 1.56. Thus, with the high incidence of sports-related injuries, particularly in high-impact sports like football and soccer, demand for the surgical sealants and adhesives market is expected to witness significant growth owing to the growing number of surgical procedures over the forecast period.

The surge in sports involvement has correspondingly resulted in alarming injury statistics for young athletes in the region, which is expected to propel the surgical sealants and adhesives market over the forecast period. For instance, according to a report published by the United States Centers for Disease Control (CDC) in February 2022, the rise in youth sports participation in the United States led to concerning injury rates, with high school athletes contributing to 2 million injuries annually, resulting in 500,000 doctor visits and 30,000 hospitalizations. Children under 14 years of age receive medical treatment for over 3.5 million sports-related injuries yearly, comprising nearly 40% of all such injuries treated in hospitals.

According to the Centers for Disease Control and Prevention, in June 2023, about 3.66 million women in the United States gave birth, among which 1.17 million pregnant women sought C-sections. Thus, the high volume of surgical procedures in the United States is expected to drive the demand for surgical sealants and adhesives, thereby contributing to the growth of the market studied in this region.

In conclusion, the increasing incidence of sports-related injuries and surgical procedures, particularly in high-impact sports and childbirth, is expected to drive demand for surgical sealants and adhesives, thereby propelling market growth over the forecast period.

Surgical Sealant And Adhesives Industry Overview

The market studied is moderately competitive, with local and global companies. International companies manufacture the majority of surgical sealants and adhesives globally. Some significant players include Becton, Dickinson and Company, B. Braun SE, Baxter International Inc., Johnson & Johnson, and Medtronic PLC.

Additional Benefits:

The market estimate (ME) sheet in Excel format

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Contents

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

4.1 Market Overview

4.2 Market Drivers

4.2.1 Increasing Surgical Procedures

4.2.2 Advancements in Technology

4.3 Market Restraints

4.3.1 Reimbursement Policies not Favoring Surgical Sealants and Adhesives

4.3.2 Availability of Alternative Methods

4.4 Porter's Five Forces Analysis

4.4.1 Threat of New Entrants

4.4.2 Bargaining Power of Buyers/Consumers

4.4.3 Bargaining Power of Suppliers

4.4.4 Threat of Substitute Products

4.4.5 Intensity of Competitive Rivalry

5 MARKET SEGMENTATION (MARKET SIZE BY VALUE - USD)

5.1 By Products

5.1.1 Natural or Biological Sealants and Adhesives

5.1.1.1 Fibrin Sealant

5.1.1.2 Gelatin-based Adhesives

5.1.1.3 Collagen-based Adhesive

5.1.2 Synthetic and Semi-synthetic Adhesives

5.1.2.1 Cyanoacrylates

5.1.2.2 Polymeric Hydrogels

5.1.2.3 Polyethylene Glycol Polymer

5.1.2.4 Other Synthetic and Semi-synthetic Adhesives

5.2 By Application

- 5.2.1 General Surgery
- 5.2.2 Dental Surgery
- 5.2.3 Cardiovascular Surgery
- 5.2.4 Cosmetic Surgery
- 5.2.5 Neurosurgery
- 5.2.6 Orthopaedic Surgery
- 5.2.7 Other Applications

5.3 By Geography

- 5.3.1 North America
 - 5.3.1.1 United States
 - 5.3.1.2 Canada
 - 5.3.1.3 Mexico
- 5.3.2 Europe
 - 5.3.2.1 Germany
 - 5.3.2.2 United Kingdom
 - 5.3.2.3 France
 - 5.3.2.4 Italy
 - 5.3.2.5 Spain
 - 5.3.2.6 Rest of Europe
- 5.3.3 Asia-Pacific
 - 5.3.3.1 China
 - 5.3.3.2 Japan
 - 5.3.3.3 India
 - 5.3.3.4 Australia
 - 5.3.3.5 South Korea
 - 5.3.3.6 Rest of Asia-Pacific
- 5.3.4 Middle East and Africa
 - 5.3.4.1 GCC
 - 5.3.4.2 South Africa
 - 5.3.4.3 Rest of Middle East and Africa
- 5.3.5 South America
 - 5.3.5.1 Brazil
 - 5.3.5.2 Argentina
 - 5.3.5.3 Rest of South America

6 COMPETITIVE LANDSCAPE

6.1 Company Profiles

- 6.1.1 B. Braun SE
- 6.1.2 Baxter International Inc.
- 6.1.3 Becton, Dickinson and Company
- 6.1.4 Cardinal Health Inc.
- 6.1.5 Cohera Medical Inc.
- 6.1.6 CryoLife Inc.
- 6.1.7 CSL Limited
- 6.1.8 Johnson & Johnson Inc.
- 6.1.9 Medline Industries Inc.
- 6.1.10 Medtronic PLC
- 6.1.11 Ocular Therapeutix
- 6.1.12 Sanofi SA
- 6.1.13 Stryker Corporation
- 6.1.14 Terumo Corporation
- 6.1.15 Vivostat AS

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

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