

# U.S. Minimally Invasive Surgery Market Size, Share & Trends Analysis Report By Surgical Specialty (General Surgery, Gynecological Surgery), By Method (Laparoscopic, Robotic-assisted), By End-use, By Payer Type, And Segment Forecasts, 2025 - 2033

<https://marketpublishers.com/r/U7D574A9E609EN.html>

Date: September 2025

Pages: 125

Price: US\$ 3,950.00 (Single User License)

ID: U7D574A9E609EN

## Abstracts

### Market Size & Trends

The U.S. minimally invasive surgery (MIS) market size was valued at USD 165.89 billion in 2024 and is expected to reach USD 318.27 billion by 2033, growing at a CAGR of 7.66% from 2025 to 2033. A key factor driving market expansion is the rising prevalence of chronic conditions such as obesity, cardiovascular diseases, and cancer. These conditions often require surgery but benefit from approaches that shorten recovery times and lower complications. Additionally, ongoing innovations in surgical technology—like robotics, high-definition imaging, laparoscopic instruments, and navigation systems—enable surgeons to perform complex procedures more accurately while minimizing patient trauma. Increasing patient awareness about the advantages of minimally invasive techniques has further propelled the demand for these procedures.

Advances in surgical robotics have revolutionized minimally invasive surgery (MIS) by enhancing surgeons' dexterity, improving visualization (often with 3D imaging), and facilitating more precise movements through small incisions. These benefits lower the barrier of complexity for certain procedures, enabling operations that may have required open surgery to now be performed less invasively. According to the American Hospital Association (AHA), as of 2024, the da Vinci robotic surgical system facilitated around 2.68 million procedures globally, and 2.63 million were carried out in the U.S. As a result, implants such as the da Vinci robot have contributed to an expanded scope of MIS across specialties, including urology, gynecology, general surgery, and more.

Furthermore, evidence from hospital data shows this trend in action. Facilities that introduce robotic-assisted surgery (RAS) capabilities tend to increase their rate of MIS, not merely replacing one minimally invasive method with another but expanding overall usage of less invasive approaches across patient groups. This indicates that RAS does not replace laparoscopic methods for robotic ones; it enables more patients who previously might have undergone open surgery to access the benefits of MIS.

Endoscopic procedures are critical in U.S. healthcare, especially for gastrointestinal diagnosis and treatment. According to several sources, approximately 2.13 million endoscopies were performed in the U.S. in 2023. These high procedure volumes reflect how deeply endoscopy intertwines minimally invasive diagnostic and therapeutic strategies. Colonoscopy remains the cornerstone of cancer prevention programs, with more than 15 million individuals undergoing the procedure annually.

## U.S. Minimally Invasive Surgery Market Report Segmentation

This report forecasts revenue growth at the country level and analyzes the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. minimally invasive surgery (MIS) market report based on surgical specialty, method, payer type, and end-use:

### Surgical Specialty Outlook (Revenue, USD Million, 2021 - 2033)

General Surgery

Gastrointestinal Surgery

Gynecological Surgery

Urological Surgery

Cardiothoracic Surgery

Orthopedic & Spine Surgery

Neurosurgery

Colorectal Surgery

Bariatric Surgery

Vascular & Endoscopic Surgery

Plastic & Reconstructive Surgery

Method Outlook (Revenue, USD Million, 2021 - 2033)

Laparoscopic Surgery

Thoracoscopic Surgery/VATS

Robotic-assisted Surgery

Endoscopic Surgery

Catheter-based/ Interventional Procedures

Others

Payer Type Outlook (Revenue, USD Million, 2021 - 2033)

Private Health Insurance

Medicare

Medicaid

Out-of-Pocket/ Self-pay

Other Payers

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals

Public Hospitals

Private Hospitals

Private Hospitals-for profit

Private Hospitals-non-profit

Ambulatory Surgical Centers

Specialty Clinics

Others

**This report can be delivered to the clients within 3 Business Days**

## Contents

### CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation and Scope
- 1.2. Segment Definitions
  - 1.2.1. Surgical Specialty
  - 1.2.2. Method
  - 1.2.3. Payer Type
  - 1.2.4. End-use
  - 1.2.5. Estimates and forecasts timeline
- 1.3. Research Methodology
- 1.4. Information Procurement
  - 1.4.1. Purchased database
  - 1.4.2. GVR's internal database
  - 1.4.3. Secondary sources
  - 1.4.4. Primary research
  - 1.4.5. Details of primary research
    - 1.4.5.1. Data for primary interviews in North America
- 1.5. Information or Data Analysis
  - 1.5.1. Data analysis models
- 1.6. Market Formulation & Validation
- 1.7. Model Details
  - 1.7.1. Commodity flow analysis (Model 1)
  - 1.7.2. Approach 1: Commodity flow approach
  - 1.7.3. Volume price analysis (Model 2)
  - 1.7.4. Approach 2: Volume price analysis
- 1.8. List of Secondary Sources
- 1.8. List of Primary Sources
- 1.10. Objectives

### CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
  - 2.2.1. Surgical Specialty outlook
  - 2.2.2. Method outlook
  - 2.2.3. Payer Type outlook
  - 2.2.4. End-use outlook

## 2.3. Competitive Insights

### **CHAPTER 3. U.S. MINIMALLY INVASIVE SURGERY (MIS) MARKET VARIABLES, TRENDS & SCOPE**

#### 3.1. Market Lineage Outlook

##### 3.1.1. Parent Market Outlook

##### 3.1.2. Related/ancillary market outlook

#### 3.2. Market Dynamics

##### 3.2.1. Market Driver Analysis

###### 3.2.1.1. Rising surgical volumes

###### 3.2.1.2. Technological advancements in surgical robotics & imaging

###### 3.2.1.3. Growing shift toward outpatient care

##### 3.2.2. Market Restraint Analysis

###### 3.2.2.1. High capital and procedure costs

###### 3.2.2.2. Complex training requirements

#### 3.3. Minimally Invasive Surgery (MIS) Market Analysis Tools

##### 3.3.1. Industry Analysis – Porter's

###### 3.3.1.1. Bargaining power of suppliers

###### 3.3.1.2. Bargaining power of buyers

###### 3.3.1.3. Threat of substitutes

###### 3.3.1.4. Threat of new entrants

###### 3.3.1.5. Competitive rivalry

##### 3.3.2. PESTEL Analysis

###### 3.3.2.1. Political landscape

###### 3.3.2.2. Economic landscape

###### 3.3.2.3. Social landscape

###### 3.3.2.4. Technological landscape

###### 3.3.2.5. Environmental landscape

###### 3.3.2.6. Legal landscape

#### 3.4. Minimally Invasive Surgery (MIS) Market: Number of Procedures

#### 3.5. Minimally Invasive Surgery (MIS) Market: Average Procedure Pricing

### **CHAPTER 4. U.S. MINIMALLY INVASIVE SURGERY (MIS) MARKET: SURGICAL SPECIALTY ESTIMATES & TREND ANALYSIS**

#### 4.1. Segment Dashboard

#### 4.2. Minimally Invasive Surgery (MIS) Market: Surgical Specialty Movement Analysis

#### 4.3. Minimally Invasive Surgery (MIS) Market by Surgical Specialty Outlook (USD)

Million)

4.4. Market Size & Forecasts and Trend Analyses, 2021 to 2033 for the following

4.5. General Surgery

4.5.1. General Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

4.6. Gastrointestinal Surgery

4.6.1. Gastrointestinal Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

4.7. Urological Surgery

4.7.1. Urological Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

4.8. Cardiothoracic Surgery

4.8.1. Cardiothoracic Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

4.9. Orthopedic & Spine Surgery

4.9.1. Orthopedic & Spine Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

4.10. Neurosurgery

4.10.1. Neurosurgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

4.11. Colorectal Surgery

4.11.1. Colorectal Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

4.12. Bariatric Surgery

4.12.1. Bariatric Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

4.13. Vascular & Endovascular Surgery

4.13.1. Vascular & Endovascular Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

4.14. Plastic & Reconstructive Surgery

4.14.1. Plastic & Reconstructive Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 5. U.S. MINIMALLY INVASIVE SURGERY (MIS) MARKET: METHOD ESTIMATES & TREND ANALYSIS**

5.1. Segment Dashboard

5.2. Minimally Invasive Surgery (MIS) Market: Method Movement Analysis

5.3. Minimally Invasive Surgery (MIS) Market by Method Outlook (USD Million)

5.4. Market Size & Forecasts and Trend Analyses, 2021 to 2033 for the following

5.5. Laparoscopic Surgery

5.5.1. Laparoscopic Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

5.6. Thoracoscopic Surgery/VATS

5.6.1. Thoracoscopic Surgery/VATS Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

5.7. Robotic-assisted Surgery

5.7.1. Robotic-assisted Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

5.8. Endoscopic Surgery

5.8.1. Endoscopic Surgery Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

5.9. Catheter-based/Interventional Procedures

5.9.1. Catheter-based/Interventional Procedures Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

5.10. Others

5.10.1. Others Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 6. U.S. MINIMALLY INVASIVE SURGERY (MIS) MARKET: PAYER TYPE ESTIMATES & TREND ANALYSIS**

6.1. Segment Dashboard

6.2. Minimally Invasive Surgery (MIS) Market: Payer Type Movement Analysis

6.3. Minimally Invasive Surgery (MIS) Market by Payer Type Outlook (USD Million)

6.4. Market Size & Forecasts and Trend Analyses, 2021 to 2033 for the following

6.5. Private Health Insurance

6.5.1. Private Health Insurance Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

6.6. Medicare

6.6.1. Medicare Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

6.7. Medicaid

6.7.1. Medicaid Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

6.8. Out-of-Pocket/Self-pay

6.8.1. Out-of-Pocket/Self-pay Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

6.9. Other Payers

6.9.1. Other Payers Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 7. U.S. MINIMALLY INVASIVE SURGERY (MIS) MARKET: END-USE ESTIMATES & TREND ANALYSIS**

### 7.1. Segment Dashboard

### 7.2. Minimally Invasive Surgery (MIS) Market: End-use Movement Analysis

### 7.3. Minimally Invasive Surgery (MIS) Market by End-use Outlook (USD Million)

### 7.4. Market Size & Forecasts and Trend Analyses, 2021 to 2033 for the following

### 7.5. Hospitals

#### 7.5.1. Hospitals Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

##### 7.5.1.1. Public hospitals

##### 7.5.1.2. Private hospitals

##### 7.5.1.2.1. Private hospitals-for profit

##### 7.5.1.2.2. Private hospitals-non-profit

### 7.6. Ambulatory Surgical Centers (ASCs)

#### 7.6.1. Ambulatory Surgical Centers (ASCs) Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

### 7.7. Specialty Clinics

#### 7.7.1. Specialty Clinics Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

### 7.8. Others

#### 7.8.1. Others Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 8. COMPETITIVE LANDSCAPE**

### 8.1. Market Participant Categorization

### 8.2. Key Company Profiles

#### 8.2.1. Medtronic plc

##### 8.2.1.1. Company overview

##### 8.2.1.2. Financial performance

##### 8.2.1.3. Product benchmarking

##### 8.2.1.4. Strategic initiatives

#### 8.2.2. Intuitive Surgical

##### 8.2.2.1. Company overview

##### 8.2.2.2. Financial performance

##### 8.2.2.3. Product benchmarking

##### 8.2.2.4. Strategic initiatives

#### 8.2.3. CMR Surgical

##### 8.2.3.1. Company overview

- 8.2.3.2. Financial performance
- 8.2.3.3. Product benchmarking
- 8.2.3.4. Strategic initiatives
- 8.2.4. Smith & Nephew plc
  - 8.2.4.1. Company overview
  - 8.2.4.2. Financial performance
  - 8.2.4.3. Product benchmarking
  - 8.2.4.4. Strategic initiatives
- 8.2.5. Renishaw
  - 8.2.5.1. Company overview
  - 8.2.5.2. Financial performance
  - 8.2.5.3. Product benchmarking
  - 8.2.5.4. Strategic initiatives
- 8.2.6. Monteris Medical
  - 8.2.6.1. Company overview
  - 8.2.6.2. Financial performance
  - 8.2.6.3. Product benchmarking
  - 8.2.6.4. Strategic initiatives
- 8.2.7. PROCEPT BioRobotics
  - 8.2.7.1. Company overview
  - 8.2.7.2. Financial performance
  - 8.2.7.3. Product benchmarking
  - 8.2.7.4. Strategic initiatives
- 8.2.8. EndoQuest Robotics
  - 8.2.8.1. Company overview
  - 8.2.8.2. Financial performance
  - 8.2.8.3. Product benchmarking
  - 8.2.8.4. Strategic initiatives
- 8.2.9. Moon Surgical
  - 8.2.9.1. Company overview
  - 8.2.9.2. Financial performance
  - 8.2.9.3. Product benchmarking
  - 8.2.9.4. Strategic initiatives
- 8.2.10. Asensus Surgical US, Inc.
  - 8.2.10.1. Company overview
  - 8.2.10.2. Financial performance
  - 8.2.10.3. Product benchmarking
  - 8.2.10.4. Strategic initiatives
- 8.2.11. Olympus Corporation

- 8.2.11.1. Company overview
- 8.2.11.2. Financial performance
- 8.2.11.3. Product benchmarking
- 8.2.11.4. Strategic initiatives

## List Of Tables

### LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of abbreviations

Table 3 U.S. Minimally Invasive Surgery (MIS) market, by surgical specialty, 2021 - 2033 (USD Million)

Table 4 U.S. Minimally Invasive Surgery (MIS) market, by method, 2021 - 2033 (USD Million)

Table 5 U.S. Minimally Invasive Surgery (MIS) market, by payer type, 2021 - 2033 (USD Million)

Table 6 U.S. Minimally Invasive Surgery (MIS) market, by end-use, 2021 - 2033 (USD Million)

## List Of Figures

### LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Data triangulation techniques
- Fig. 3 Primary research pattern
- Fig. 4 Market research approaches
- Fig. 5 Value-chain-based sizing & forecasting
- Fig. 6 QFD modeling for market share assessment
- Fig. 7 Market formulation & validation
- Fig. 8 U.S. Minimally Invasive Surgery (MIS): market outlook
- Fig. 9 U.S. Minimally Invasive Surgery (MIS) market competitive insights
- Fig. 10 Parent market outlook
- Fig. 11 Related/ancillary market outlook
- Fig. 12 Penetration and growth prospect mapping
- Fig. 13 Industry value chain analysis
- Fig. 14 U.S. Minimally Invasive Surgery (MIS) market driver impact
- Fig. 15 U.S. Minimally Invasive Surgery (MIS) market restraint impact
- Fig. 16 U.S. Minimally Invasive Surgery (MIS) market strategic initiatives analysis
- Fig. 17 U.S. Minimally Invasive Surgery (MIS) market: surgical specialty movement analysis
- Fig. 18 U.S. Minimally Invasive Surgery (MIS) market: surgical specialty outlook and key takeaways
- Fig. 19 General surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 20 Gastrointestinal surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 21 Gynecological surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 22 Urological surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 23 Cardiothoracic surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 24 Orthopedic & spine surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 25 Neurosurgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 26 Colorectal surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Million)

Fig. 27 Bariatric surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 28 Vascular & endovascular surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 29 Plastic & reconstructive surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 30 U.S. Minimally Invasive Surgery (MIS) market: method movement analysis

Fig. 31 U.S. Minimally Invasive Surgery (MIS) market: method outlook and key takeaways

Fig. 32 Laparoscopic surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 33 Thoracoscopic surgery/VATS market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 34 Robotic-assisted surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 35 Endoscopic surgery market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 36 Catheter-based interventional procedures market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 37 Others market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 38 U.S. Minimally Invasive Surgery (MIS) market: payer type movement analysis

Fig. 39 U.S. Minimally Invasive Surgery (MIS) market: payer type outlook and key takeaways

Fig. 40 Private health insurance market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 41 Medicare market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 42 Medicaid market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 43 Out-of-pocket/self-pay market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 44 Other payers market revenue estimates and forecasts, 2021 - 2033 (USD Million) - 2033 (USD Million)

Fig. 45 Minimally Invasive Surgery (MIS) market, end use outlook key takeaways (USD Million)

Fig. 46 Minimally Invasive Surgery (MIS) market end use movement analysis 2024 & 2033 (USD Million)

Fig. 47 Hospitals market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 48 Ambulatory surgical centers (ASCs) market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 49 Specialty clinics market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 50 Others market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 51 Participant categorization- U.S. Minimally Invasive Surgery (MIS) market

Fig. 52 Market share of key market players- U.S. Minimally Invasive Surgery (MIS) market

## I would like to order

Product name: U.S. Minimally Invasive Surgery Market Size, Share & Trends Analysis Report By Surgical Specialty (General Surgery, Gynecological Surgery), By Method (Laparoscopic, Robotic-assisted), By End-use, By Payer Type, And Segment Forecasts, 2025 - 2033

Product link: <https://marketpublishers.com/r/U7D574A9E609EN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/U7D574A9E609EN.html>