

Global Surgical Cell Delivery Cannula Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Surgical Cell Delivery Cannula market size was valued at US\$ 65.85 million in 2025 and is forecast to a readjusted size of US\$ 211 million by 2032 with a CAGR of 18.0% during review period.

Surgical cell delivery cannulas are specialized cannulas, needles, or delivery catheters used under open surgery, minimally invasive intervention, or image-guided procedures to place stem cells, iPSC-derived cells, immune cells, cell spheroids, or related biologics into target sites such as the brain, subretinal space, myocardium, spinal cord, and local soft tissue. Key requirements include small bore design, low dead volume, controlled flow, low shear stress, sterile single-use supply, and compatibility with syringes, pumps, microinjection systems, and navigation platforms, with an estimated gross margin of about 55%.

Demand is mainly driven by cell therapy pipelines for neurodegenerative diseases, inherited retinal disorders, heart failure repair, spinal cord injury, and musculoskeletal or soft tissue repair. As living cell therapies move from systemic infusion to precise local implantation, the delivery step has a greater impact on cell viability, dose retention, target coverage, and surgical safety, pushing cannulas from standard injection tools toward low-shear, low-dead-volume, visible, and flow-controlled designs.

The supply base combines ophthalmic microsurgery consumable manufacturers, neurosurgical navigation and delivery platform providers, and cardiovascular intervention catheter companies. Leading suppliers increasingly sell cannulas, catheters, microinjection kits, pump control modules, and navigation software as integrated solutions. Procurement decisions focus on gauge or diameter, tip design,

dead volume, material compatibility, sterilization, regulatory documentation, and compatibility with existing surgical systems.

Market opportunities are concentrated in cell and gene therapy indications that have entered clinical or commercial stages, especially in CNS, ophthalmology, and cardiac regenerative medicine. The sector still faces a long surgical learning curve, limited procedure volume per program, lengthy custom validation, and varied regulatory pathways, while suppliers with clinical evidence and platform compatibility are better positioned for high-value collaborations.

This report is a detailed and comprehensive analysis for global Surgical Cell Delivery Cannula market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Surgical Cell Delivery Cannula market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Surgical Cell Delivery Cannula market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Surgical Cell Delivery Cannula market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Surgical Cell Delivery Cannula market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Surgical Cell Delivery Cannula

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Surgical Cell Delivery Cannula market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ClearPoint Neuro, BioCardia, MedOne Surgical, DORC, Altaviz, Mizuho, Japan Lifeline, Neurochase, Orbit Biomedical, Bausch + Lomb, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Surgical Cell Delivery Cannula market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Intracerebral Delivery Cannula

Subretinal Delivery Cannula

Intramyocardial Delivery Catheter

Intraspinal Delivery Cannula

Local Tissue Injection Cannula

Other Delivery Cannula

Market segment by Cannula Structure

Straight Rigid Cannula

Curved or Angled Cannula

Flexible Tip Cannula

Extendable or Retractable Tip Cannula

Helical Needle Catheter

Multiport or Side-Opening Cannula

Market segment by Specification Parameters

38-41 Gauge Microcannula

23-27 Gauge Access Cannula

1-2 mm Stereotactic Cannula

Short Tip Length Cannula

Low Dead Volume Cannula

Custom Specification Cannula

Market segment by Imaging and Navigation Compatibility

Image-Guided Compatible Type

Stereotactic Frame-Compatible Type

Robotic Navigation-Compatible Type

Cardiac Mapping-Compatible Type

Manual Operation Type

Other Compatibility Type

Market segment by Application

Retinal Cell Therapy

CNS Cell Therapy

Cardiac Cell Therapy

Spinal Cord Cell Therapy

Musculoskeletal and Soft Tissue Repair

Preclinical Cell Delivery Studies

Major players covered

ClearPoint Neuro

BioCardia

MedOne Surgical

DORC

Altaviz

Mizuho

Japan Lifeline

Neurochase

Orbit Biomedical

Bausch + Lomb

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Surgical Cell Delivery Cannula product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Surgical Cell Delivery Cannula, with price, sales quantity, revenue, and global market share of Surgical Cell Delivery Cannula from 2021 to 2026.

Chapter 3, the Surgical Cell Delivery Cannula competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Surgical Cell Delivery Cannula breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Surgical Cell Delivery Cannula market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Surgical Cell Delivery Cannula.

Chapter 14 and 15, to describe Surgical Cell Delivery Cannula sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Surgical Cell Delivery Cannula Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Intracerebral Delivery Cannula

1.3.3 Subretinal Delivery Cannula

1.3.4 Intramyocardial Delivery Catheter

1.3.5 Intraspinal Delivery Cannula

1.3.6 Local Tissue Injection Cannula

1.3.7 Other Delivery Cannula

1.4 Market Analysis by Cannula Structure

1.4.1 Overview: Global Surgical Cell Delivery Cannula Consumption Value by Cannula Structure: 2021 Versus 2025 Versus 2032

1.4.2 Straight Rigid Cannula

1.4.3 Curved or Angled Cannula

1.4.4 Flexible Tip Cannula

1.4.5 Extendable or Retractable Tip Cannula

1.4.6 Helical Needle Catheter

1.4.7 Multiport or Side-Opening Cannula

1.5 Market Analysis by Specification Parameters

1.5.1 Overview: Global Surgical Cell Delivery Cannula Consumption Value by Specification Parameters: 2021 Versus 2025 Versus 2032

1.5.2 38-41 Gauge Microcannula

1.5.3 23-27 Gauge Access Cannula

1.5.4 1-2 mm Stereotactic Cannula

1.5.5 Short Tip Length Cannula

1.5.6 Low Dead Volume Cannula

1.5.7 Custom Specification Cannula

1.6 Market Analysis by Imaging and Navigation Compatibility

1.6.1 Overview: Global Surgical Cell Delivery Cannula Consumption Value by Imaging and Navigation Compatibility: 2021 Versus 2025 Versus 2032

1.6.2 Image-Guided Compatible Type

1.6.3 Stereotactic Frame-Compatible Type

1.6.4 Robotic Navigation-Compatible Type

- 1.6.5 Cardiac Mapping-Compatible Type
- 1.6.6 Manual Operation Type
- 1.6.7 Other Compatibility Type
- 1.7 Market Analysis by Application
 - 1.7.1 Overview: Global Surgical Cell Delivery Cannula Consumption Value by Application: 2021 Versus 2025 Versus 2032
 - 1.7.2 Retinal Cell Therapy
 - 1.7.3 CNS Cell Therapy
 - 1.7.4 Cardiac Cell Therapy
 - 1.7.5 Spinal Cord Cell Therapy
 - 1.7.6 Musculoskeletal and Soft Tissue Repair
 - 1.7.7 Preclinical Cell Delivery Studies
- 1.8 Global Surgical Cell Delivery Cannula Market Size & Forecast
 - 1.8.1 Global Surgical Cell Delivery Cannula Consumption Value (2021 & 2025 & 2032)
 - 1.8.2 Global Surgical Cell Delivery Cannula Sales Quantity (2021-2032)
 - 1.8.3 Global Surgical Cell Delivery Cannula Average Price (2021-2032)

2 MANUFACTURERS PROFILES

- 2.1 ClearPoint Neuro
 - 2.1.1 ClearPoint Neuro Details
 - 2.1.2 ClearPoint Neuro Major Business
 - 2.1.3 ClearPoint Neuro Surgical Cell Delivery Cannula Product and Services
 - 2.1.4 ClearPoint Neuro Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.1.5 ClearPoint Neuro Recent Developments/Updates
- 2.2 BioCardia
 - 2.2.1 BioCardia Details
 - 2.2.2 BioCardia Major Business
 - 2.2.3 BioCardia Surgical Cell Delivery Cannula Product and Services
 - 2.2.4 BioCardia Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 BioCardia Recent Developments/Updates
- 2.3 MedOne Surgical
 - 2.3.1 MedOne Surgical Details
 - 2.3.2 MedOne Surgical Major Business
 - 2.3.3 MedOne Surgical Surgical Cell Delivery Cannula Product and Services
 - 2.3.4 MedOne Surgical Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 MedOne Surgical Recent Developments/Updates

2.4 DORC

2.4.1 DORC Details

2.4.2 DORC Major Business

2.4.3 DORC Surgical Cell Delivery Cannula Product and Services

2.4.4 DORC Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 DORC Recent Developments/Updates

2.5 Altaviz

2.5.1 Altaviz Details

2.5.2 Altaviz Major Business

2.5.3 Altaviz Surgical Cell Delivery Cannula Product and Services

2.5.4 Altaviz Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Altaviz Recent Developments/Updates

2.6 Mizuho

2.6.1 Mizuho Details

2.6.2 Mizuho Major Business

2.6.3 Mizuho Surgical Cell Delivery Cannula Product and Services

2.6.4 Mizuho Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Mizuho Recent Developments/Updates

2.7 Japan Lifeline

2.7.1 Japan Lifeline Details

2.7.2 Japan Lifeline Major Business

2.7.3 Japan Lifeline Surgical Cell Delivery Cannula Product and Services

2.7.4 Japan Lifeline Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Japan Lifeline Recent Developments/Updates

2.8 Neurochase

2.8.1 Neurochase Details

2.8.2 Neurochase Major Business

2.8.3 Neurochase Surgical Cell Delivery Cannula Product and Services

2.8.4 Neurochase Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Neurochase Recent Developments/Updates

2.9 Orbit Biomedical

2.9.1 Orbit Biomedical Details

2.9.2 Orbit Biomedical Major Business

- 2.9.3 Orbit Biomedical Surgical Cell Delivery Cannula Product and Services
- 2.9.4 Orbit Biomedical Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.9.5 Orbit Biomedical Recent Developments/Updates
- 2.10 Bausch + Lomb
 - 2.10.1 Bausch + Lomb Details
 - 2.10.2 Bausch + Lomb Major Business
 - 2.10.3 Bausch + Lomb Surgical Cell Delivery Cannula Product and Services
 - 2.10.4 Bausch + Lomb Surgical Cell Delivery Cannula Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Bausch + Lomb Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SURGICAL CELL DELIVERY CANNULA BY MANUFACTURER

- 3.1 Global Surgical Cell Delivery Cannula Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Surgical Cell Delivery Cannula Revenue by Manufacturer (2021-2026)
- 3.3 Global Surgical Cell Delivery Cannula Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Surgical Cell Delivery Cannula by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Surgical Cell Delivery Cannula Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Surgical Cell Delivery Cannula Manufacturer Market Share in 2025
- 3.5 Surgical Cell Delivery Cannula Market: Overall Company Footprint Analysis
 - 3.5.1 Surgical Cell Delivery Cannula Market: Region Footprint
 - 3.5.2 Surgical Cell Delivery Cannula Market: Company Product Type Footprint
 - 3.5.3 Surgical Cell Delivery Cannula Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Surgical Cell Delivery Cannula Market Size by Region
 - 4.1.1 Global Surgical Cell Delivery Cannula Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Surgical Cell Delivery Cannula Consumption Value by Region (2021-2032)
 - 4.1.3 Global Surgical Cell Delivery Cannula Average Price by Region (2021-2032)
- 4.2 North America Surgical Cell Delivery Cannula Consumption Value (2021-2032)
- 4.3 Europe Surgical Cell Delivery Cannula Consumption Value (2021-2032)

- 4.4 Asia-Pacific Surgical Cell Delivery Cannula Consumption Value (2021-2032)
- 4.5 South America Surgical Cell Delivery Cannula Consumption Value (2021-2032)
- 4.6 Middle East & Africa Surgical Cell Delivery Cannula Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2032)
- 5.2 Global Surgical Cell Delivery Cannula Consumption Value by Type (2021-2032)
- 5.3 Global Surgical Cell Delivery Cannula Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Surgical Cell Delivery Cannula Sales Quantity by Application (2021-2032)
- 6.2 Global Surgical Cell Delivery Cannula Consumption Value by Application (2021-2032)
- 6.3 Global Surgical Cell Delivery Cannula Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2032)
- 7.2 North America Surgical Cell Delivery Cannula Sales Quantity by Application (2021-2032)
- 7.3 North America Surgical Cell Delivery Cannula Market Size by Country
 - 7.3.1 North America Surgical Cell Delivery Cannula Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Surgical Cell Delivery Cannula Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2032)
- 8.2 Europe Surgical Cell Delivery Cannula Sales Quantity by Application (2021-2032)
- 8.3 Europe Surgical Cell Delivery Cannula Market Size by Country
 - 8.3.1 Europe Surgical Cell Delivery Cannula Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Surgical Cell Delivery Cannula Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity by Application
(2021-2032)

9.3 Asia-Pacific Surgical Cell Delivery Cannula Market Size by Region

9.3.1 Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity by Region
(2021-2032)

9.3.2 Asia-Pacific Surgical Cell Delivery Cannula Consumption Value by Region
(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2032)

10.2 South America Surgical Cell Delivery Cannula Sales Quantity by Application
(2021-2032)

10.3 South America Surgical Cell Delivery Cannula Market Size by Country

10.3.1 South America Surgical Cell Delivery Cannula Sales Quantity by Country
(2021-2032)

10.3.2 South America Surgical Cell Delivery Cannula Consumption Value by Country
(2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Surgical Cell Delivery Cannula Market Size by Country
 - 11.3.1 Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Surgical Cell Delivery Cannula Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Surgical Cell Delivery Cannula Market Drivers
- 12.2 Surgical Cell Delivery Cannula Market Restraints
- 12.3 Surgical Cell Delivery Cannula Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Surgical Cell Delivery Cannula and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Surgical Cell Delivery Cannula
- 13.3 Surgical Cell Delivery Cannula Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Surgical Cell Delivery Cannula Typical Distributors

14.3 Surgical Cell Delivery Cannula Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Surgical Cell Delivery Cannula Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Surgical Cell Delivery Cannula Consumption Value by Cannula Structure, (USD Million), 2021 & 2025 & 2032

Table 3. Global Surgical Cell Delivery Cannula Consumption Value by Specification Parameters, (USD Million), 2021 & 2025 & 2032

Table 4. Global Surgical Cell Delivery Cannula Consumption Value by Imaging and Navigation Compatibility, (USD Million), 2021 & 2025 & 2032

Table 5. Global Surgical Cell Delivery Cannula Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. ClearPoint Neuro Basic Information, Manufacturing Base and Competitors

Table 7. ClearPoint Neuro Major Business

Table 8. ClearPoint Neuro Surgical Cell Delivery Cannula Product and Services

Table 9. ClearPoint Neuro Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. ClearPoint Neuro Recent Developments/Updates

Table 11. BioCardia Basic Information, Manufacturing Base and Competitors

Table 12. BioCardia Major Business

Table 13. BioCardia Surgical Cell Delivery Cannula Product and Services

Table 14. BioCardia Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. BioCardia Recent Developments/Updates

Table 16. MedOne Surgical Basic Information, Manufacturing Base and Competitors

Table 17. MedOne Surgical Major Business

Table 18. MedOne Surgical Surgical Cell Delivery Cannula Product and Services

Table 19. MedOne Surgical Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. MedOne Surgical Recent Developments/Updates

Table 21. DORC Basic Information, Manufacturing Base and Competitors

Table 22. DORC Major Business

Table 23. DORC Surgical Cell Delivery Cannula Product and Services

Table 24. DORC Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. DORC Recent Developments/Updates
Table 26. Altaviz Basic Information, Manufacturing Base and Competitors
Table 27. Altaviz Major Business
Table 28. Altaviz Surgical Cell Delivery Cannula Product and Services
Table 29. Altaviz Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 30. Altaviz Recent Developments/Updates
Table 31. Mizuho Basic Information, Manufacturing Base and Competitors
Table 32. Mizuho Major Business
Table 33. Mizuho Surgical Cell Delivery Cannula Product and Services
Table 34. Mizuho Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 35. Mizuho Recent Developments/Updates
Table 36. Japan Lifeline Basic Information, Manufacturing Base and Competitors
Table 37. Japan Lifeline Major Business
Table 38. Japan Lifeline Surgical Cell Delivery Cannula Product and Services
Table 39. Japan Lifeline Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 40. Japan Lifeline Recent Developments/Updates
Table 41. Neurochase Basic Information, Manufacturing Base and Competitors
Table 42. Neurochase Major Business
Table 43. Neurochase Surgical Cell Delivery Cannula Product and Services
Table 44. Neurochase Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 45. Neurochase Recent Developments/Updates
Table 46. Orbit Biomedical Basic Information, Manufacturing Base and Competitors
Table 47. Orbit Biomedical Major Business
Table 48. Orbit Biomedical Surgical Cell Delivery Cannula Product and Services
Table 49. Orbit Biomedical Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 50. Orbit Biomedical Recent Developments/Updates
Table 51. Bausch + Lomb Basic Information, Manufacturing Base and Competitors
Table 52. Bausch + Lomb Major Business
Table 53. Bausch + Lomb Surgical Cell Delivery Cannula Product and Services
Table 54. Bausch + Lomb Surgical Cell Delivery Cannula Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 55. Bausch + Lomb Recent Developments/Updates

Table 56. Global Surgical Cell Delivery Cannula Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 57. Global Surgical Cell Delivery Cannula Revenue by Manufacturer (2021-2026) & (USD Million)

Table 58. Global Surgical Cell Delivery Cannula Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 59. Market Position of Manufacturers in Surgical Cell Delivery Cannula, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 60. Head Office and Surgical Cell Delivery Cannula Production Site of Key Manufacturer

Table 61. Surgical Cell Delivery Cannula Market: Company Product Type Footprint

Table 62. Surgical Cell Delivery Cannula Market: Company Product Application Footprint

Table 63. Surgical Cell Delivery Cannula New Market Entrants and Barriers to Market Entry

Table 64. Surgical Cell Delivery Cannula Mergers, Acquisition, Agreements, and Collaborations

Table 65. Global Surgical Cell Delivery Cannula Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 66. Global Surgical Cell Delivery Cannula Sales Quantity by Region (2021-2026) & (Units)

Table 67. Global Surgical Cell Delivery Cannula Sales Quantity by Region (2027-2032) & (Units)

Table 68. Global Surgical Cell Delivery Cannula Consumption Value by Region (2021-2026) & (USD Million)

Table 69. Global Surgical Cell Delivery Cannula Consumption Value by Region (2027-2032) & (USD Million)

Table 70. Global Surgical Cell Delivery Cannula Average Price by Region (2021-2026) & (US\$/Unit)

Table 71. Global Surgical Cell Delivery Cannula Average Price by Region (2027-2032) & (US\$/Unit)

Table 72. Global Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2026) & (Units)

Table 73. Global Surgical Cell Delivery Cannula Sales Quantity by Type (2027-2032) & (Units)

Table 74. Global Surgical Cell Delivery Cannula Consumption Value by Type (2021-2026) & (USD Million)

Table 75. Global Surgical Cell Delivery Cannula Consumption Value by Type (2027-2032) & (USD Million)

Table 76. Global Surgical Cell Delivery Cannula Average Price by Type (2021-2026) & (US\$/Unit)

Table 77. Global Surgical Cell Delivery Cannula Average Price by Type (2027-2032) & (US\$/Unit)

Table 78. Global Surgical Cell Delivery Cannula Sales Quantity by Application (2021-2026) & (Units)

Table 79. Global Surgical Cell Delivery Cannula Sales Quantity by Application (2027-2032) & (Units)

Table 80. Global Surgical Cell Delivery Cannula Consumption Value by Application (2021-2026) & (USD Million)

Table 81. Global Surgical Cell Delivery Cannula Consumption Value by Application (2027-2032) & (USD Million)

Table 82. Global Surgical Cell Delivery Cannula Average Price by Application (2021-2026) & (US\$/Unit)

Table 83. Global Surgical Cell Delivery Cannula Average Price by Application (2027-2032) & (US\$/Unit)

Table 84. North America Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2026) & (Units)

Table 85. North America Surgical Cell Delivery Cannula Sales Quantity by Type (2027-2032) & (Units)

Table 86. North America Surgical Cell Delivery Cannula Sales Quantity by Application (2021-2026) & (Units)

Table 87. North America Surgical Cell Delivery Cannula Sales Quantity by Application (2027-2032) & (Units)

Table 88. North America Surgical Cell Delivery Cannula Sales Quantity by Country (2021-2026) & (Units)

Table 89. North America Surgical Cell Delivery Cannula Sales Quantity by Country (2027-2032) & (Units)

Table 90. North America Surgical Cell Delivery Cannula Consumption Value by Country (2021-2026) & (USD Million)

Table 91. North America Surgical Cell Delivery Cannula Consumption Value by Country (2027-2032) & (USD Million)

Table 92. Europe Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2026) & (Units)

Table 93. Europe Surgical Cell Delivery Cannula Sales Quantity by Type (2027-2032) & (Units)

Table 94. Europe Surgical Cell Delivery Cannula Sales Quantity by Application (2021-2026) & (Units)

Table 95. Europe Surgical Cell Delivery Cannula Sales Quantity by Application

(2027-2032) & (Units)

Table 96. Europe Surgical Cell Delivery Cannula Sales Quantity by Country

(2021-2026) & (Units)

Table 97. Europe Surgical Cell Delivery Cannula Sales Quantity by Country

(2027-2032) & (Units)

Table 98. Europe Surgical Cell Delivery Cannula Consumption Value by Country

(2021-2026) & (USD Million)

Table 99. Europe Surgical Cell Delivery Cannula Consumption Value by Country

(2027-2032) & (USD Million)

Table 100. Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity by Type

(2021-2026) & (Units)

Table 101. Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity by Type

(2027-2032) & (Units)

Table 102. Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity by Application

(2021-2026) & (Units)

Table 103. Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity by Application

(2027-2032) & (Units)

Table 104. Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity by Region

(2021-2026) & (Units)

Table 105. Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity by Region

(2027-2032) & (Units)

Table 106. Asia-Pacific Surgical Cell Delivery Cannula Consumption Value by Region

(2021-2026) & (USD Million)

Table 107. Asia-Pacific Surgical Cell Delivery Cannula Consumption Value by Region

(2027-2032) & (USD Million)

Table 108. South America Surgical Cell Delivery Cannula Sales Quantity by Type

(2021-2026) & (Units)

Table 109. South America Surgical Cell Delivery Cannula Sales Quantity by Type

(2027-2032) & (Units)

Table 110. South America Surgical Cell Delivery Cannula Sales Quantity by Application

(2021-2026) & (Units)

Table 111. South America Surgical Cell Delivery Cannula Sales Quantity by Application

(2027-2032) & (Units)

Table 112. South America Surgical Cell Delivery Cannula Sales Quantity by Country

(2021-2026) & (Units)

Table 113. South America Surgical Cell Delivery Cannula Sales Quantity by Country

(2027-2032) & (Units)

Table 114. South America Surgical Cell Delivery Cannula Consumption Value by

Country (2021-2026) & (USD Million)

Table 115. South America Surgical Cell Delivery Cannula Consumption Value by Country (2027-2032) & (USD Million)

Table 116. Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity by Type (2021-2026) & (Units)

Table 117. Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity by Type (2027-2032) & (Units)

Table 118. Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity by Application (2021-2026) & (Units)

Table 119. Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity by Application (2027-2032) & (Units)

Table 120. Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity by Country (2021-2026) & (Units)

Table 121. Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity by Country (2027-2032) & (Units)

Table 122. Middle East & Africa Surgical Cell Delivery Cannula Consumption Value by Country (2021-2026) & (USD Million)

Table 123. Middle East & Africa Surgical Cell Delivery Cannula Consumption Value by Country (2027-2032) & (USD Million)

Table 124. Surgical Cell Delivery Cannula Raw Material

Table 125. Key Manufacturers of Surgical Cell Delivery Cannula Raw Materials

Table 126. Surgical Cell Delivery Cannula Typical Distributors

Table 127. Surgical Cell Delivery Cannula Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Surgical Cell Delivery Cannula Picture
- Figure 2. Global Surgical Cell Delivery Cannula Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Surgical Cell Delivery Cannula Revenue Market Share by Type in 2025
- Figure 4. Intracerebral Delivery Cannula Examples
- Figure 5. Subretinal Delivery Cannula Examples
- Figure 6. Intramyocardial Delivery Catheter Examples
- Figure 7. Intraspinal Delivery Cannula Examples
- Figure 8. Local Tissue Injection Cannula Examples
- Figure 9. Other Delivery Cannula Examples
- Figure 10. Global Surgical Cell Delivery Cannula Revenue by Cannula Structure, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Surgical Cell Delivery Cannula Revenue Market Share by Cannula Structure in 2025
- Figure 12. Straight Rigid Cannula Examples
- Figure 13. Curved or Angled Cannula Examples
- Figure 14. Flexible Tip Cannula Examples
- Figure 15. Extendable or Retractable Tip Cannula Examples
- Figure 16. Helical Needle Catheter Examples
- Figure 17. Multiport or Side-Opening Cannula Examples
- Figure 18. Global Surgical Cell Delivery Cannula Revenue by Specification Parameters, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Surgical Cell Delivery Cannula Revenue Market Share by Specification Parameters in 2025
- Figure 20. 38-41 Gauge Microcannula Examples
- Figure 21. 23-27 Gauge Access Cannula Examples
- Figure 22. 1-2 mm Stereotactic Cannula Examples
- Figure 23. Short Tip Length Cannula Examples
- Figure 24. Low Dead Volume Cannula Examples
- Figure 25. Custom Specification Cannula Examples
- Figure 26. Global Surgical Cell Delivery Cannula Revenue by Imaging and Navigation Compatibility, (USD Million), 2021 & 2025 & 2032
- Figure 27. Global Surgical Cell Delivery Cannula Revenue Market Share by Imaging and Navigation Compatibility in 2025
- Figure 28. Image-Guided Compatible Type Examples

Figure 29. Stereotactic Frame-Compatible Type Examples

Figure 30. Robotic Navigation-Compatible Type Examples

Figure 31. Cardiac Mapping-Compatible Type Examples

Figure 32. Manual Operation Type Examples

Figure 33. Other Compatibility Type Examples

Figure 34. Global Surgical Cell Delivery Cannula Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 35. Global Surgical Cell Delivery Cannula Revenue Market Share by Application in 2025

Figure 36. Retinal Cell Therapy Examples

Figure 37. CNS Cell Therapy Examples

Figure 38. Cardiac Cell Therapy Examples

Figure 39. Spinal Cord Cell Therapy Examples

Figure 40. Musculoskeletal and Soft Tissue Repair Examples

Figure 41. Preclinical Cell Delivery Studies Examples

Figure 42. Global Surgical Cell Delivery Cannula Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 43. Global Surgical Cell Delivery Cannula Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 44. Global Surgical Cell Delivery Cannula Sales Quantity (2021-2032) & (Units)

Figure 45. Global Surgical Cell Delivery Cannula Price (2021-2032) & (US\$/Unit)

Figure 46. Global Surgical Cell Delivery Cannula Sales Quantity Market Share by Manufacturer in 2025

Figure 47. Global Surgical Cell Delivery Cannula Revenue Market Share by Manufacturer in 2025

Figure 48. Producer Shipments of Surgical Cell Delivery Cannula by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 49. Top 3 Surgical Cell Delivery Cannula Manufacturer (Revenue) Market Share in 2025

Figure 50. Top 6 Surgical Cell Delivery Cannula Manufacturer (Revenue) Market Share in 2025

Figure 51. Global Surgical Cell Delivery Cannula Sales Quantity Market Share by Region (2021-2032)

Figure 52. Global Surgical Cell Delivery Cannula Consumption Value Market Share by Region (2021-2032)

Figure 53. North America Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 54. Europe Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 55. Asia-Pacific Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 56. South America Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 57. Middle East & Africa Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 58. Global Surgical Cell Delivery Cannula Sales Quantity Market Share by Type (2021-2032)

Figure 59. Global Surgical Cell Delivery Cannula Consumption Value Market Share by Type (2021-2032)

Figure 60. Global Surgical Cell Delivery Cannula Average Price by Type (2021-2032) & (US\$/Unit)

Figure 61. Global Surgical Cell Delivery Cannula Sales Quantity Market Share by Application (2021-2032)

Figure 62. Global Surgical Cell Delivery Cannula Revenue Market Share by Application (2021-2032)

Figure 63. Global Surgical Cell Delivery Cannula Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. North America Surgical Cell Delivery Cannula Sales Quantity Market Share by Type (2021-2032)

Figure 65. North America Surgical Cell Delivery Cannula Sales Quantity Market Share by Application (2021-2032)

Figure 66. North America Surgical Cell Delivery Cannula Sales Quantity Market Share by Country (2021-2032)

Figure 67. North America Surgical Cell Delivery Cannula Consumption Value Market Share by Country (2021-2032)

Figure 68. United States Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 69. Canada Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 70. Mexico Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 71. Europe Surgical Cell Delivery Cannula Sales Quantity Market Share by Type (2021-2032)

Figure 72. Europe Surgical Cell Delivery Cannula Sales Quantity Market Share by Application (2021-2032)

Figure 73. Europe Surgical Cell Delivery Cannula Sales Quantity Market Share by Country (2021-2032)

Figure 74. Europe Surgical Cell Delivery Cannula Consumption Value Market Share by

Country (2021-2032)

Figure 75. Germany Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 76. France Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 77. United Kingdom Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 78. Russia Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 79. Italy Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 80. Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity Market Share by Type (2021-2032)

Figure 81. Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity Market Share by Application (2021-2032)

Figure 82. Asia-Pacific Surgical Cell Delivery Cannula Sales Quantity Market Share by Region (2021-2032)

Figure 83. Asia-Pacific Surgical Cell Delivery Cannula Consumption Value Market Share by Region (2021-2032)

Figure 84. China Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 85. Japan Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 86. South Korea Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 87. India Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 88. Southeast Asia Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 89. Australia Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 90. South America Surgical Cell Delivery Cannula Sales Quantity Market Share by Type (2021-2032)

Figure 91. South America Surgical Cell Delivery Cannula Sales Quantity Market Share by Application (2021-2032)

Figure 92. South America Surgical Cell Delivery Cannula Sales Quantity Market Share by Country (2021-2032)

Figure 93. South America Surgical Cell Delivery Cannula Consumption Value Market Share by Country (2021-2032)

Figure 94. Brazil Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 95. Argentina Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 96. Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity Market Share by Type (2021-2032)

Figure 97. Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity Market Share by Application (2021-2032)

Figure 98. Middle East & Africa Surgical Cell Delivery Cannula Sales Quantity Market Share by Country (2021-2032)

Figure 99. Middle East & Africa Surgical Cell Delivery Cannula Consumption Value Market Share by Country (2021-2032)

Figure 100. Turkey Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 101. Egypt Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 102. Saudi Arabia Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 103. South Africa Surgical Cell Delivery Cannula Consumption Value (2021-2032) & (USD Million)

Figure 104. Surgical Cell Delivery Cannula Market Drivers

Figure 105. Surgical Cell Delivery Cannula Market Restraints

Figure 106. Surgical Cell Delivery Cannula Market Trends

Figure 107. Porters Five Forces Analysis

Figure 108. Manufacturing Cost Structure Analysis of Surgical Cell Delivery Cannula in 2025

Figure 109. Manufacturing Process Analysis of Surgical Cell Delivery Cannula

Figure 110. Surgical Cell Delivery Cannula Industrial Chain

Figure 111. Sales Channel: Direct to End-User vs Distributors

Figure 112. Direct Channel Pros & Cons

Figure 113. Indirect Channel Pros & Cons

Figure 114. Methodology

Figure 115. Research Process and Data Source

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