

Nephrostomy Devices Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Nephrostomy Devices Market was valued at USD 1.3 billion in 2024 and is set to experience robust growth at a CAGR of 8.5% from 2025 to 2034. This growth can be attributed to a rising prevalence of kidney-related conditions, including kidney stones, urinary tract infections, and hydronephrosis. As more individuals seek medical intervention for these conditions, the demand for effective drainage solutions continues to surge. Additionally, there is a growing shift toward minimally invasive procedures, which is driving the increased adoption of nephrostomy devices. Innovations in nephrostomy technology, such as the introduction of advanced materials and designs that offer improved precision and safety, are further fueling market growth.

These technological advancements are also enhancing the effectiveness of procedures, making them safer and more efficient. The increased focus on patient safety and precision is propelling the development of cutting-edge devices aimed at reducing complications during nephrostomy treatments. As healthcare systems across the globe evolve, the demand for state-of-the-art nephrostomy devices will continue to rise, further promoting market expansion. The ongoing evolution of healthcare infrastructure, including upgraded imaging technologies, is also playing a key role in boosting the overall market.

The nephrostomy devices market is segmented into various product categories, such as guidewires, drainage tubes, nephrostomy catheters, sheath dilators, and others. In 2024, the guidewires segment generated USD 415.2 million, making it the largest contributor to the market. Guidewires are crucial for the accurate placement of nephrostomy catheters, offering flexibility and ease of navigation during procedures. Innovations like hydrophilic coatings have improved their maneuverability, reducing

complications and ensuring better outcomes for patients. Additionally, specialized guidewires designed for specific patient demographics, such as pediatric or elderly patients, are gaining traction, contributing to the segment's continued growth.

On the application side, the market is divided into kidney stones, urinary tract infections, bladder cancer, and others. Among these, the kidney stones segment holds the largest share and is expected to grow at a CAGR of 9.1%, reaching USD 1.1 billion by 2034. Kidney stones are a leading cause of urinary blockages, often requiring nephrostomy procedures for effective drainage. The increasing incidence of nephrolithiasis, driven by factors such as poor dietary habits, dehydration, and sedentary lifestyles, is propelling the demand for nephrostomy devices.

In the U.S., the nephrostomy devices market reached USD 480.2 million in 2024 and is projected to grow at a CAGR of 7.8% from 2025 to 2034. The U.S. remains the largest market, driven by a high incidence of kidney-related disorders, particularly kidney stones. The country also benefits from a well-developed healthcare infrastructure, which includes advanced imaging technologies that enhance the success and precision of nephrostomy procedures. Moreover, the presence of leading market players and strong healthcare spending further reinforces the market's growth in the U.S.

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market scope and definitions
- 1.2 Research design
 - 1.2.1 Research approach
 - 1.2.2 Data collection methods
- 1.3 Base estimates and calculations
 - 1.3.1 Base year calculation
 - 1.3.2 Key trends for market estimation
- 1.4 Forecast model
- 1.5 Primary research and validation
 - 1.5.1 Primary sources
 - 1.5.2 Data mining sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Industry impact forces
 - 3.2.1 Growth drivers
 - 3.2.1.1 Rising prevalence of kidney disorders
 - 3.2.1.2 Increased adoption of minimally invasive surgical procedure
 - 3.2.1.3 Technological advancements in nephrostomy devices
 - 3.2.1.4 Increasing awareness among population
 - 3.2.2 Industry pitfalls and challenges
 - 3.2.2.1 Risks associated with the nephrostomy devices
 - 3.2.2.2 Availability of substitute procedures
- 3.3 Growth potential analysis
- 3.4 Pricing analysis, 2024
- 3.5 Reimbursement scenario
- 3.6 Regulatory landscape
- 3.7 Technology landscape
- 3.8 Gap analysis
- 3.9 Porter's analysis

- 3.10 PESTEL analysis
- 3.11 Future market trends
- 3.12 Value chain analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company matrix analysis
- 4.3 Company market share analysis
- 4.4 Competitive analysis of major market players
- 4.5 Competitive positioning matrix
- 4.6 Strategy dashboard

CHAPTER 5 MARKET ESTIMATES AND FORECAST, BY PRODUCT, 2021 – 2034 (\$ MN)

- 5.1 Key trends
- 5.2 Guidewires
- 5.3 Drainage tubes
- 5.4 Nephrostomy catheters
- 5.5 Sheath dilators
- 5.6 Other products

CHAPTER 6 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2021 – 2034 (\$ MN)

- 6.1 Key trends
- 6.2 Kidney stones
- 6.3 Urinary tract infections
- 6.4 Bladder cancer
- 6.5 Other applications

CHAPTER 7 MARKET ESTIMATES AND FORECAST, BY PATIENT TYPE, 2021 – 2034 (\$ MN)

- 7.1 Key trends
- 7.2 Adult
- 7.3 Pediatric

CHAPTER 8 MARKET ESTIMATES AND FORECAST, BY END USE, 2021 – 2034 (\$ MN)

- 8.1 Key trends
- 8.2 Hospitals
- 8.3 Clinics
- 8.4 Ambulatory surgical centers
- 8.5 Other end users

CHAPTER 9 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 – 2034 (\$ MN)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.2 UK
 - 9.3.3 France
 - 9.3.4 Spain
 - 9.3.5 Italy
 - 9.3.6 Netherlands
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 Japan
 - 9.4.3 India
 - 9.4.4 Australia
 - 9.4.5 South Korea
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
 - 9.5.3 Argentina
- 9.6 Middle East and Africa
 - 9.6.1 South Africa
 - 9.6.2 Saudi Arabia
 - 9.6.3 UAE

CHAPTER 10 COMPANY PROFILES

- 10.1 angiodynamics
- 10.2 B. Braun
- 10.3 BD
- 10.4 Boston Scientific
- 10.5 CardinalHealth
- 10.6 Coloplast
- 10.7 Cook
- 10.8 Envaste
- 10.9 meditech
- 10.10 NeoMedical
- 10.11 OLYMPUS
- 10.12 rocamed
- 10.13 Teleflex
- 10.14 Uresil

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