

Arterial Cannula Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

<https://marketpublishers.com/r/A18B5C6E3EC1EN.html>

Date: January 2025

Pages: 130

Price: US\$ 4,850.00 (Single User License)

ID: A18B5C6E3EC1EN

Abstracts

The Global Arterial Cannula Market was valued at USD 23.1 million in 2024 and is projected to experience significant growth with an anticipated CAGR of 7.3% from 2025 to 2034. Several key factors are driving this market expansion, including the rising prevalence of cardiovascular diseases, advancements in cannula technology, and the increasing adoption of respiratory and cardiac support systems in critical care settings. Additionally, the availability of reimbursement policies for cardiac procedures is fostering the wider use of arterial cannulas, contributing to the overall market growth.

The growing global burden of cardiovascular diseases, including coronary artery disease, heart failure, and stroke, has heightened the demand for advanced medical devices such as arterial cannulas, which are critical for various cardiac surgeries, ECMO (extracorporeal membrane oxygenation) procedures, and other life-saving interventions. These devices play a crucial role in improving patient outcomes during surgeries and critical care treatments, thereby spurring their widespread use across hospitals and surgical centers. Innovations in cannula technology, which improve safety, effectiveness, and patient comfort, are also helping propel market demand. Furthermore, as healthcare systems continue to invest in the latest medical technologies and surgical interventions, arterial cannulas remain a core component of treatment protocols.

The market is segmented by size, with options such as 14-16 Fr, 17-19 Fr, 20-22 Fr, 23-25 Fr, 26-28 Fr, 29-31 Fr, 32-34 Fr, and 35-36 Fr. The 20-22 Fr size category held the largest market share of 28.4% in 2024. This size is particularly favored due to its balanced performance during ECMO procedures and cardiac surgeries, especially for adult patients. Offering an optimal mix of effectiveness and safety, the 20-22 Fr cannula reduces complications like vascular damage and bleeding during insertion, ensuring

compatibility with adult arterial structures. Its less invasive nature, compared to larger cannula sizes, makes it the preferred choice for arterial cannulation in adult patients.

In terms of end-users, the market is categorized into hospitals, ambulatory surgical centers, and others. Hospitals dominated the market with a 73.1% share in 2024. The increasing number of critical cardiac and intensive care procedures being performed in hospitals is a major factor contributing to this segment's dominance. Arterial cannulas are an essential tool in life-saving treatments such as cardiopulmonary bypass and ECMO, both of which are extensively used in hospital settings. As the demand for advanced surgical interventions and critical care treatments continues to rise, hospitals are expected to maintain their position as the largest end-user segment.

In the U.S. arterial cannula market, the sector generated USD 8.7 million in 2024. The high prevalence of cardiovascular diseases such as coronary artery disease, heart failure, and stroke plays a significant role in driving the demand for ECMO procedures and cardiac surgeries. Both of these treatments heavily rely on arterial cannulas, solidifying the device's critical role in the country's healthcare system and further fueling market growth.

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