

U.S. Umbilical Vessel Catheters Market Size, Share & Trends Analysis Report By Product (Umbilical Arterial Catheters, Umbilical Venous Catheters), By Material, By Channel, By Indication/Use, By End Use, And Segment Forecasts, 2025 - 2033

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Abstracts

The U.S. umbilical vessel catheters market size was estimated at USD 165.39 million in 2024 and is projected to reach USD 258.83 million by 2033, growing at a CAGR of 5.21% from 2025 to 2033. This growth is attributed to the rising prevalence of preterm births and neonatal complications that require immediate vascular access for life-saving interventions.

Growing investments in NICU infrastructure, coupled with the expansion of Level III and Level IV neonatal care units, further strengthen demand for the product. Technological improvements, such as biocompatible materials, kink-resistant designs, and enhanced catheter tip positioning, also enhance adoption. Furthermore, heightened clinical emphasis on infection prevention and safe neonatal vascular access supports the continued use of advanced UVC and UAC systems.

The rising incidence of preterm births is a primary factor driving the growth of the U.S. umbilical vessel catheters industry. Preterm infants often require immediate and reliable vascular access for administering fluids, medications, and parenteral nutrition in neonatal intensive care units (NICUs). Umbilical vessel catheters (UVCs and UACs) play a crucial role in stabilizing these infants during the critical early stages of life. With increasing global preterm birth rates and improved survival outcomes, the demand for advanced, safe, and infection-resistant catheters continues to rise. Moreover, growing awareness among healthcare professionals and the expansion of neonatal care infrastructure further support market growth worldwide. According to the Reproductive

Health Journal, the number of preterm births remained high globally, with an estimated 13.4 million cases in 2020. According to the Centers for Disease Control and Prevention (CDC), both early and late preterm birth rates increased by 4% from 2020 to 2021 but later declined by 1%-2% from 2021 to 2022.

The growing need for advanced neonatal intensive care is a major factor driving the U.S. umbilical vessel catheters industry. As the number of preterm and low-birth-weight infants continues to rise, the demand for reliable and safe vascular access solutions has increased significantly. Umbilical vessel catheters play a crucial role in delivering essential medications, fluids, and nutrition while allowing continuous monitoring of critically ill newborns. The expansion of neonatal intensive care units (NICUs) and the adoption of advanced medical technologies are further enhancing their use. In addition, the focus on improving neonatal survival rates and reducing complications is accelerating the adoption of high-performance, infection-resistant catheters across hospitals worldwide.

The expansion of Level III and Level IV neonatal care units is another driver of the U.S. umbilical vessel catheter industry, as these advanced facilities manage the highest volume of premature and critically ill newborns requiring immediate vascular access. As more hospitals upgrade their NICU capabilities, the demand for reliable UVCs and UACs increases to support life-saving interventions, including fluid resuscitation, parenteral nutrition, medication delivery, and continuous monitoring. These units follow stringent clinical protocols that standardize the use of umbilical catheters, ensuring consistent utilization. As investment in specialized neonatal infrastructure increases, the need for high-quality catheters becomes even more crucial in delivering advanced newborn care.

U.S. Umbilical Vessel Catheters Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of 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. umbilical vessel catheters market report based on product, material, channel, indication/use and end use:

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

Umbilical Arterial Catheters (UACs)

Umbilical Venous Catheters (UVCs)

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

Polyurethane-based Catheters

Silicone-based Catheters

PVC-coated Catheters

Others

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

Single Lumen

Double Lumen

Triple Lumen

Indication/Use Outlook (Revenue, USD Million, 2021 - 2033)

Neonates with Difficult Venous Access (DVA) for Emergency Resuscitation

Exchange Blood Transfusion

Cardiac Catheterisation

Parenteral Nutrition

Drug Administration

Frequent Blood Sampling/Arterial Blood Gas Monitoring

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

Hospitals (NICUs)

Specialty Clinics or Centers

Ambulatory Surgery Centers

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