

Global Pediatric Vascular Access Market Size Study & Forecast, by Type (Catheters (CVC, PIVC, PICC), Ports, IV Sets, Infusion Pumps), by Application (Drug Administration, Blood Transfusion, Diagnostics & Testing) and Regional Forecasts 2025-2035

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Abstracts

The Global Pediatric Vascular Access Market was valued at approximately USD 0.54 billion in 2024 and is projected to expand at a healthy CAGR of 7.40% during the forecast period of 2025–2035, supported by historical benchmarks from 2023 and 2024, with 2024 positioned as the base year for estimation. Pediatric vascular access devices are specialized medical tools designed to safely deliver medications, fluids, nutrition, and blood products to neonates, infants, and children, whose fragile vasculature demands heightened precision and care. As pediatric healthcare continues to evolve toward patient-centric and minimally invasive treatment models, vascular access solutions are being increasingly worked into clinical protocols to reduce procedural complications, improve comfort, and enhance therapeutic outcomes.

Market growth is being powered by rising pediatric hospitalization rates, increasing prevalence of chronic and congenital conditions, and the growing need for long-term intravenous therapies in neonatal and pediatric intensive care settings. Hospitals and healthcare providers are doubling down on advanced vascular access technologies to lower infection risks, minimize repeated needle sticks, and improve workflow efficiency. Moreover, continuous innovations in catheter materials, tip designs, and infusion technologies are helping manufacturers roll out safer and more durable products. Despite these tailwinds, challenges such as high device costs, stringent regulatory approvals, and the need for skilled clinical expertise continue to shape purchasing decisions across healthcare systems.

The detailed segments and sub-segments included in the report are:

By Type:

Catheters

Central Venous Catheters (CVC)

Peripheral Intravenous Catheters (PIVC)

Peripherally Inserted Central Catheters (PICC)

Ports

IV Sets

Infusion Pumps

By Application:

Drug Administration

Blood Transfusion

Diagnostics & Testing

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Catheters are expected to dominate the Global Pediatric Vascular Access Market throughout the forecast period, accounting for the largest share due to their widespread use across both short-term and long-term pediatric care settings. Among catheter types, PICCs and PIVCs are increasingly being leaned on in neonatal intensive care units and pediatric wards, where secure, reliable access is essential for prolonged therapies. Their versatility, improved safety profiles, and growing clinician familiarity continue to reinforce their dominance, even as alternative access devices steadily gain acceptance.

From a revenue standpoint, drug administration applications currently lead the market, reflecting the high frequency of intravenous medication delivery in pediatric care. Pediatric patients undergoing treatment for infections, cancer, metabolic disorders, and post-surgical recovery often require continuous or repeated drug infusion, making vascular access devices indispensable. While blood transfusion and diagnostic applications maintain steady demand, drug administration stands out as the primary revenue generator, supported by expanding pediatric therapeutic pipelines and rising treatment intensity in hospital settings.

The Global Pediatric Vascular Access Market shows notable regional variation, with North America holding a leading position owing to advanced healthcare infrastructure, high adoption of innovative medical devices, and strong reimbursement frameworks. Europe follows closely, driven by robust pediatric care standards and growing emphasis on infection control and patient safety. Asia Pacific is anticipated to register the fastest growth during the forecast period of 2025–2035, as improving healthcare access, rising birth rates in certain economies, and increasing investments in pediatric hospital infrastructure fuel demand across emerging markets.

Major market players included in this report are:

Becton, Dickinson and Company

B. Braun Melsungen AG

Teleflex Incorporated

Smiths Medical

ICU Medical, Inc.

Medtronic plc

Fresenius Kabi AG

Vygon SA

Nipro Corporation

Terumo Corporation

AngioDynamics, Inc.

Cook Medical

Edwards Lifesciences Corporation

Baxter International Inc.

Cardinal Health, Inc.

Global Pediatric Vascular Access Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle

East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market size of various segments and countries in recent years and to forecast their values over the coming years, anchored to 2024 as the base year and supported by historical insights from 2023 and 2024. The report blends qualitative perspectives with quantitative rigor to outline the forces shaping the Global Pediatric Vascular Access Market. It further highlights key growth drivers, operational challenges, and untapped opportunities at a micro-market level, while delivering an in-depth assessment of the competitive landscape and product portfolios of leading players.

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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