

Arteriovenous Fistula Treatment Market to Reach \$1.52B by 2035 Across APAC, Europe, USA & Saudi Arabia

Global AVF treatment market projected to grow from \$868.8M in 2025 to \$1.52B by 2035, driven by ESRD prevalence and advanced vascular access solutions.

SPAIN, November 11, 2025

/EINPresswire.com/ -- The global

[arteriovenous fistula \(AVF\) treatment market](#) is poised for substantial

expansion, projected to increase from approximately USD 868.8 million in

2025 to USD 1.52 billion by 2035,

registering a robust compound annual

growth rate (CAGR) of 5.9%. This growth is fueled by rising incidences of end-stage renal disease (ESRD), the adoption of minimally invasive procedures, and the increasing demand for reliable vascular access solutions for hemodialysis patients.

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Rising ESRD cases and minimally invasive innovations are redefining AVF care globally.”

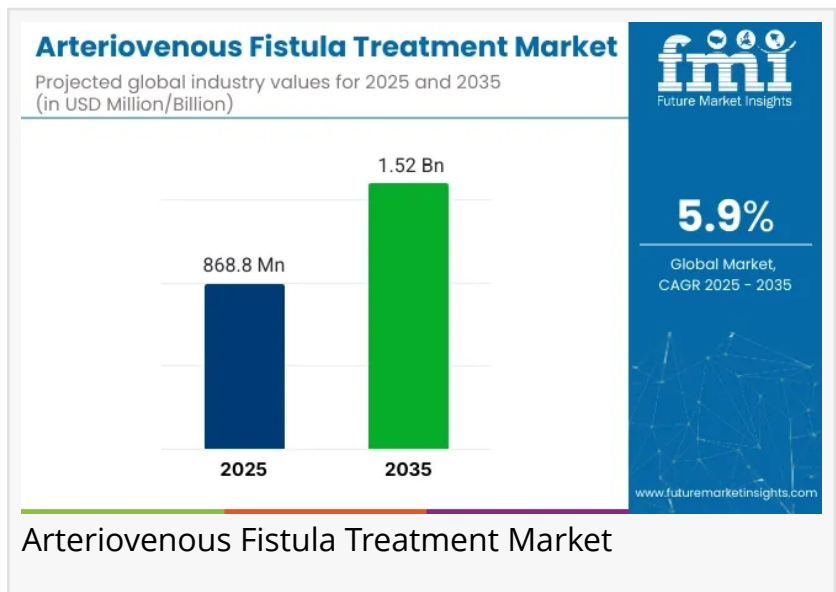
Sabyasachi Ghosh

Technological innovations are reshaping AVF interventions. Minimally invasive procedures, including ultrasound-guided cannulation and robotic-assisted surgeries, are improving precision, reducing complications, and enhancing long-term outcomes. Additionally, the integration of drug-eluting devices and bioresorbable materials is extending AVF patency while lowering the risk of thrombosis and stenosis. Notably, Medtronic's recent

IN.PACT AV Access trial, presented at Charing Cross 2024, highlighted 60-month patency improvements using drug-coated balloons compared to conventional angioplasty.

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Peripheral Arteriovenous Fistulas Lead Market Adoption

Peripheral AVFs are projected to dominate the market, accounting for 68.2% share in 2025. These fistulas, commonly created in the forearm, are preferred due to their superior long-term patency, reduced complication rates, and optimal outcomes for dialysis patients. The increasing prevalence of ESRD globally and advancements in surgical techniques further accelerate the adoption of peripheral AVFs. Leading players, including Medtronic and Terumo Corporation, are actively innovating devices to enhance procedural success and patient safety.

Transcatheter Embolization Gains Traction

Transcatheter embolization, representing 56.3% of the treatment type market share in 2025, is experiencing strong adoption due to its minimally invasive advantages. Patients unsuitable for traditional surgery benefit from reduced recovery time, lower complication risk, and improved procedural comfort. Companies such as Cook Medical and Boston Scientific are pioneering advanced embolization devices, contributing to the segment's rapid growth.

Challenges and Market Barriers

Despite promising growth, the AVF treatment market faces challenges. Limited awareness regarding postoperative care, access maintenance, and complication prevention contributes to patient risk. Regulatory hurdles and reimbursement delays further complicate market dynamics, while a shortage of skilled vascular specialists in certain regions hampers timely intervention. Addressing patient education gaps is critical to improving long-term outcomes and reducing procedure repetition.

Emerging Opportunities and Innovations

Nanotechnology-based coatings, bioengineered vascular grafts, and drug-eluting solutions are driving new opportunities for market players. Tissue-engineered grafts and biodegradable scaffolds enhance AVF longevity while reducing infection and clotting risk. Robotic-assisted vascular surgery, powered by AI and real-time imaging, is transforming precision, minimizing complications, and promoting faster patient recovery. These advancements are particularly impactful in APAC, Europe, the USA, and Saudi Arabia, where ESRD incidence and healthcare investments are rising.

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Regional Market Outlook

- United States: Driven by ESRD prevalence, technological advancements, and favorable reimbursement policies, the market is expected to grow at a CAGR of 2.6% from 2025 to 2035.
- Germany: A mature healthcare system and adoption of bioengineered grafts forecast a CAGR

of 3.1% over the same period.

- China: Rising chronic kidney disease cases and government-backed healthcare initiatives are driving a CAGR of 4.9%.
- India: Expanding dialysis infrastructure, government health programs, and medical tourism contribute to a CAGR of 5.4%.
- Brazil: Growth supported by public-private healthcare investments and increasing ESRD prevalence, achieving a CAGR of 4.3%.

Competitive Landscape

Major players in the AVF treatment market include Medtronic, Cook Medical, Becton Dickinson & Co., Teleflex, Fresenius Medical Care, Terumo Corporation, and Poly Medicure. These companies are leveraging technological innovation, strategic partnerships, and clinical research to strengthen market presence and improve patient outcomes.

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Contact Us:

Future Market Insights Inc.

Christiana Corporate, 200 Continental Drive,
Suite 401, Newark, Delaware – 19713, USA
T: +1-347-918-3531
For Sales Enquiries: sales@futuremarketinsights.com
Website: <https://www.futuremarketinsights.com>
[LinkedIn](#) | [Twitter](#) | [Blogs](#) | [YouTube](#)

Sudip Saha
Future Market Insights Inc.
+1 347-918-3531
[email us here](#)

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