

# **Blood Purification Devices/Equipment/Methods Market Insights, Competitive Landscape and Market Forecast–2026**

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## **Abstracts**

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BLOOD PURIFICATION DEVICES MARKET BY PRODUCT TYPE (HEMODIALYSIS DEVICE, BLOOD FILTRATION DEVICE, CONTINUOUS RENAL REPLACEMENT THERAPY (CRRT) DEVICE, HEMOPERFUSION DEVICE, PLASMA EXCHANGE DEVICE), BY TYPE (PORTABLE AND STATIONARY), BY APPLICATION (DIAGNOSTICS AND THERAPEUTICS) BY END USER (HOSPITALS, DIALYSIS CENTRES AND OTHERS), BY GEOGRAPHY IS EXPECTED TO GROW AT A STEADY CAGR FORECAST TILL 2026 OWING TO AN INCREASE IN THE NUMBER OF CASES FOR HYPERTENSION AND THE RISE OBSERVED IN THE CHRONIC KIDNEY DISEASE (CKD) AND END STAGE RENAL DISEASE PATIENTS

Global Blood Purification Devices Market was valued at USD 4.71 billion in 2020, growing at a CAGR of 4.18% during the forecast period from 2021 to 2026, to reach USD 5.33 billion by 2026. The demand for blood purification devices is primarily witnessing growth on account of the increase in number of Chronic Kidney diseases (CKD) and End Stage Renal Disease (ESRD) patients, surge in the cases of hypertension and diabetes leading to kidney disorders, technological advancements in hemodialysis, increasing product approvals by FDA and increase in adoption of blood purification equipment.

### **BLOOD PURIFICATION DEVICES MARKET DYNAMICS:**

The rising number of patients suffering from Chronic Kidney diseases (CKD) and End Stage Renal Disease (ESRD) is one of the major reasons for driving the Blood

Purification Devices market. According to the research paper “Chronic Kidney Disease is on the Rise”, by Haileamlak et al. in 2018, chronic disease tends to affect about 10% of the world’s adult population. Several conditions comprising of diabetes, hypertension, vascular disease and glomerulonephritis are known to cause the Chronic Renal Disease. Even in low-income countries, besides the above known causes, glomerulonephritis and interstitial nephritis are the major cause for most of the chronic kidney disease due to the high prevalence of infections. According to this research although CKD tends to affect certain age groups and sexes, it is more prevalent in case of aged individuals. As per the previous source, it is estimated that the worldwide prevalence of CKD is 23–36% in people aged ≥64.

As per the statistics of Chronic Kidney Disease in the United States, 2021, more than 1 in 7 i.e. 15% of US adults or 37 million people, are estimated to have CKD. It is more commonly seen in people aged 65 years or older (38%) than in people aged 45–64 years (12%) or 18–44 years (6%). The disease is slightly more common in women (14%) than men (12%). 1 in 3 adults (approximately 80 million adults) are at the risk of kidney disease. Due to the rise in the number of CKD and ESRD patients, there will be a high demand observed for blood purification devices, leading to a boost in the blood purification devices market.

However, the high cost of blood purification equipment and the risks associated with the blood purification procedures are expected to limit the market growth over the forecast period.

#### BLOOD PURIFICATION DEVICES MARKET SEGMENT ANALYSIS:

Blood Purification Devices market by Product Type (Hemodialysis Device, Blood Filtration Device, Continuous Renal Replacement Therapy (CRRT) Device, Hemoperfusion Device, Plasma Exchange Device), By Type (Portable and Stationary), By Application (Diagnostics and Therapeutics), Blood Purification Devices market by End User (Hospitals, Dialysis Centers and Others), and Blood Purification Devices market by Geography (North America, Europe, Asia-Pacific, and Rest of the World).

Depending on type, the Blood Purification Devices market can be segmented into portable and stationary blood purification devices. The portable blood purification devices can be anticipated to be the largest growing segment in the market. The reason being the advantages that are offered by the portable type of blood purification devices such as less utilization of space and ease related to movement of the devices, specifically in critical care units. Therefore, these are most likely preferred by healthcare

professionals for the treatment of patients.

Portable blood purification devices can potentially improve the quality of patient life by allowing them to continue with their daily activities of life while undergoing dialysis as well as by loosening—or removing entirely—dietary and fluid restrictions and reducing pill burden. For instance, on March 12, 2021, Baxter had announced the United States approval of the AK 98 Hemodialysis Machine. The latest technology provides a compact, portable and easy-to-use system for the dialysis providers. The machine has a stable base design which allows for easy concentrate or portable reverse osmosis storage and transportation with the machine. Due to the approval of such devices, the demand for portable devices is expected to rise in future as they tend to offer better results in comparison to the stationary blood purification devices. This will lead to the growth of the portable blood purification devices market.

#### **NORTH AMERICA IS EXPECTED TO DOMINATE THE OVERALL BLOOD PURIFICATION DEVICES MARKET:**

Among all the regions, North America is expected to account for the largest share in the blood purification devices market. The rising prevalence of Chronic Kidney Disease and End Stage Renal Diseases among Americans along with the increasing awareness among patients for blood purification devices and the well-established healthcare infrastructure are predicted to be the major influencing factors in driving the overall growth of the market over the forecast period.

As per the statistics of Chronic Kidney Disease in the United States, 2021, CKD is more commonly seen in people that are above the age of 65 years or older than in people aged 45–64 years (12%) or 18–44 years (6%). Also, according to the United States Renal Data System 2020 Annual Report, overall, 14.9% of the U.S. adult population surveyed in 2015-2018 had CKD based on a low eGFR or proteinuria (on a single examination). As per the same organization in 2019 Annual Report, the number of prevalent ESRD cases has continued to rise by about 20,000 cases per year. In the North American region, an increasing number of people are suffering from kidney failure problems due to chronic kidney diseases. Therefore, this situation will help the market to expand further, fueling the blood purification equipment.

#### **BLOOD PURIFICATION DEVICES MARKET KEY PLAYERS:**

Some of the key market players operating in the Blood Purification Devices market includes Asahi Kasei Corporation, B. Braun Melsungen AG, Baxter International Inc.,

Fresenius SE and Co. KGaA, Infomed SA, Jafron Biomedical Co., Ltd., Kaneka Corporation, Nikkiso Co, Ltd. and SWS Medical Group, CytoSorbents Europe GmbH, Spectral Medical Inc., Haemonetics Corporation, Medtronic, Cerus Corporation, ExThera Medical Corporation and others.

## BLOOD PURIFICATION DEVICES MARKET RECENT DEVELOPMENTAL ACTIVITIES:

On December 08, 2021, Medtronic had launched the first neonatal dialysis machine in the US.

On June 18, 2021, the New York-based startup, Qidni Labs, a company pursuing waterless and mobile blood purification systems, had announced that they are looking forward to human trials in 2022 following a successful animal study.

On March 12, 2021, Baxter had received the FDA clearance for its latest, portable dialysis machine designed to connect directly with electronic medical records for patients' prescriptions and treatment data.

On April 03, 2020, Food and Drug Administration had approved Outset Medical's Tablo Hemodialysis System for use in a home setting after positive results from 30 patients who completed a year-long trial.

## KEY TAKES AWAY FROM THE BLOOD PURIFICATION DEVICES MARKET REPORT STUDY

? Market size analysis for current market size (2020), and market forecast for 5 years (2021-2026)

? The effect of the COVID-19 pandemic on this market is significant. To capture and analyze suitable indicators, our experts are closely watching the market.

? Top key product/services/technology developments, merger, acquisition, partnership, joint venture happened for last 3 years

? Key companies dominating the Global Blood Purification Devices Market.

? Various opportunities available for the other competitor in the Blood Purification Devices Market space.

? What are the top performing segments in 2020? How these segments will perform in 2026.

? Which is the top-performing regions and countries in the current market scenario?

? Which are the regions and countries where companies should have concentrated on opportunities for market growth in the coming future?

## TARGET AUDIENCE WHO CAN BE BENEFITED FROM THIS BLOOD PURIFICATION DEVICES MARKET REPORT STUDY

? Blood Purification Devices providers

? Research organizations and consulting companies

? Blood Purification Devices-related organization, association, forum, and other alliances

? Government and corporate offices

? Start-up companies, venture capitalists, and private equity firms

? Distributors and Traders

? Various End-users who want to know more about the Blood Purification Devices Market and latest technological developments in the Blood Purification Devices market.

## FREQUENTLY ASKED QUESTIONS FOR BLOOD PURIFICATION DEVICES MARKET:

What is Blood Purification Devices?

Blood Purification is a procedure which involves withdrawal of blood from the patient's body into a device or an equipment in order to eliminate the impurities and pump it back into the body. The blood purification devices are similar to that of dialysis equipment. These device use thin fibres for capturing and removing viruses and helps in filtering the

blood.

What is the market for Global Blood Purification Devices?

Global Blood Purification Devices Market was valued at USD 4.71 billion in 2020, growing at a CAGR of 4.18% during the forecast period from 2021 to 2026, to reach USD 5.33 billion by 2026.

What are the drivers for Global Blood Purification Devices?

The major drivers driving the demand for Global Blood Purification Devices are the increase in the number of chronic kidney disease and end stage renal disease patients, increasing number of cases of hypertension and diabetes leading to kidney disorders, technological advancements in hemodialysis, rise in the number of product approvals by FDA and increase in adoption of blood purification equipment .

What are the key players operating in Global Blood Purification Devices?

Some of the key market players operating in the Diagnostic Imaging Equipment market includes Asahi Kasei Corporation, B. Braun Melsungen AG, Baxter International Inc., Fresenius SE and Co. KGaA, Infomed SA, Jafron Biomedical Co., Ltd., Kaneka Corporation, and others.

What regions has the highest share in Blood Purification Devices market?

North America is expected to dominate the overall Blood Purification Devices during the forecast period, 2021 to 2026. This domination is due to the rising prevalence of CKD and ESRD in patients along with the increased awareness regarding blood purification devices and the rapid expansion of healthcare infrastructure.

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