

# **Blood Transfusion Devices Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Product (Apheresis Systems, Infusion Devices, Blood Warmers, Venous Access Devices, Filters, Others), By Blood Component (Whole Blood, Plasma, RBC, Others), By End User (Hospital, Ambulatory Surgical Centers, Dialysis Centers, Blood Bank, Other), By Region and Competition**

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## **Abstracts**

Global Blood Transfusion Devices Market has valued at USD 2.59 Billion in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 6.21% through 2028. Blood transfusion is a medical procedure involving the administration of blood and its components to patients in order to replace lost blood components. This technique is performed by inserting a venous access device and catheter into a central or peripheral vein, or by utilizing an apheresis system or infusion pump to deliver the blood or blood components. Blood transfusion finds broad applications in the treatment of various medical conditions, including blood cancers. In recent times, there has been a significant increase in the number of different types of surgeries worldwide.

Cardiovascular procedures, C-sections, accident injuries, and trauma are among the main surgical procedures that often require blood transfusion. As a result, the global market for blood transfusion devices is expected to witness a surge in demand during the forecast period.

Key Market Drivers

## Increasing Number of Surgical Procedures

The increasing number of surgical procedures worldwide is driving a substantial surge in the demand for blood transfusion devices. Surgical interventions often necessitate blood transfusions to replace lost blood, maintain hemodynamic stability, and ensure patient safety. The increasing number of surgical procedures worldwide, coupled with advancements in medical technology and the importance of patient safety, has led to a significant uptick in the demand for blood transfusion devices. These devices play a crucial role in supporting surgical interventions, ensuring that patients receive timely and appropriate blood transfusions when needed, and are thus indispensable tools in modern healthcare systems. As surgical demand continues to rise, the demand for efficient and reliable blood transfusion devices is expected to persist.

As the global population grows and ages, the demand for surgical interventions has surged. People are living longer and undergoing various surgeries to address a wide range of health conditions, including cardiac surgeries, organ transplants, orthopedic procedures, and cancer treatments. Many of these surgeries involve complex and invasive techniques, which can result in significant blood loss, necessitating the use of blood transfusion devices. Patient safety is a paramount concern in healthcare. Blood transfusion devices help ensure that patients receive the right type and quantity of blood components at the right time. Advanced features such as barcode scanning, real-time monitoring, and automated blood tracking systems enhance the safety and accuracy of transfusions, reducing the risk of errors and transfusion-related complications. Blood transfusion devices are indispensable tools in modern healthcare systems, especially with the increasing number of surgical procedures, technological advancements, and the unwavering focus on patient safety. They ensure that patients receive timely and appropriate blood transfusions during surgeries, improving outcomes and reducing risks. As surgical demand continues to rise, the demand for efficient, reliable, and innovative blood transfusion devices is expected to persist, further driving advancements in this critical aspect of healthcare.

## Rise in the Number of Blood Disorders

The rise in the number of blood disorders is undeniably increasing the demand for blood transfusion devices, as these disorders often necessitate frequent transfusions to manage symptoms and improve patients' quality of life. The prevalence of blood disorders, such as anemia, hemophilia, and various types of leukemia, has been steadily increasing due to factors such as population growth, aging, and improved diagnostic capabilities. As more individuals are diagnosed with these conditions, the

demand for blood transfusions to treat anemia, provide clotting factors for hemophilia, or replenish blood components in leukemia patients has surged. Moreover, advancements in medical research and treatments have extended the life expectancy of individuals with blood disorders. Patients are living longer, necessitating ongoing transfusion therapy to manage their conditions effectively. This prolonged need for transfusions contributes to the sustained demand for blood transfusion devices.

Furthermore, there is a growing recognition of the importance of blood transfusion therapy in improving the quality of life for patients with blood disorders. Transfusions can alleviate symptoms such as fatigue, weakness, and pain, allowing individuals to lead more fulfilling and productive lives. As healthcare providers and patients become more aware of these benefits, the demand for blood transfusion devices remains on the rise.

### Increase in the Number of Accidents

The increase in the number of accidents, particularly those involving trauma and severe injuries, has been a significant driver behind the rising demand for blood transfusion devices. Accidents, such as road accidents, industrial mishaps, natural disasters, and sporting injuries, can result in substantial blood loss, necessitating immediate and life-saving transfusions. The global population's expansion and urbanization have led to increased vehicular traffic and industrial activities, resulting in a higher frequency of accidents. These accidents can lead to severe injuries, including internal bleeding, fractures, and head trauma, all of which may require immediate surgical interventions and blood transfusions. Moreover, natural disasters, such as earthquakes, hurricanes, and floods, often lead to a surge in casualties with traumatic injuries. In such emergency situations, access to blood transfusion devices becomes essential to ensure that injured individuals receive the necessary blood components promptly.

The increase in the number of accidents, often resulting in severe injuries and significant blood loss, has driven a notable increase in the demand for blood transfusion devices. These devices play a life-saving role in emergency and trauma care, ensuring that accident victims receive the critical blood components they need to survive and recover. As accidents continue to occur, the demand for efficient and reliable blood transfusion devices is expected to remain high, underlining their essential role in modern healthcare and emergency response systems.

### Technological Advancements in the Devices

Technological advancements in blood transfusion devices are playing a pivotal role in increasing their demand, transforming the landscape of blood banking, healthcare delivery, and patient outcomes. Several key factors contribute to the growing need for these advanced devices. The integration of cutting-edge technologies into blood transfusion devices has significantly improved their safety and efficiency. Automated blood component separators, for example, allow for the precise separation of whole blood into its individual components, such as red blood cells, plasma, and platelets. This capability not only maximizes the utility of donated blood but also reduces the risk of transfusion-related adverse reactions, thereby increasing patient safety.

Moreover, sophisticated monitoring systems and software have been incorporated into blood transfusion devices, allowing for real-time tracking of blood products from donation to administration. This traceability ensures the integrity and quality of blood components, reducing the likelihood of errors and enhancing patient safety. Additionally, technological advancements have enabled the development of portable and compact blood transfusion devices. These portable devices are particularly valuable in emergency and remote healthcare settings, where access to traditional blood bank facilities may be limited. This portability increases the accessibility of transfusion therapy, improving patient care and outcomes, especially in critical situations.

## Key Market Challenges

### Increased Demand for Minimally Invasive Surgery

In recent years, there has been a noticeable shift in patients' preferences, with a gradual move away from invasive treatments towards the adoption of minimally invasive surgeries. This change is driven by various factors, such as the potential for reduced hospital stays, lower costs, faster patient recovery, and enhanced patient comfort. These advantages are expected to contribute to the growing popularity of minimally invasive surgery, as patients increasingly seek out procedures that offer these benefits.

Looking ahead, invasive procedures are expected to persist throughout the predicted timeframe. However, the increasing utilization of minimally invasive operations is anticipated to minimize the need for blood conservation or allogeneic transfer, as these procedures typically result in minimal blood loss. This not only reduces the risks associated with blood transfusions but also provides a safer and more efficient surgical experience for patients.

By offering a little more detail, it becomes evident that the shift towards minimally

invasive surgeries is driven by the desire for improved patient outcomes, reduced healthcare costs, and enhanced overall patient satisfaction.

### Bloodborne Infections due to Blood Transfusion System

According to the World Health Organization, a significant number of infants with thalassemia are born in low-income nations, where access to blood transfusion services is often limited or restricted to a small fraction of the population. This scarcity of blood transfusion resources not only poses challenges but also has adverse effects on the healthcare system, impacting the overall well-being of patients in need. In addition to the limited availability of transfusion services, patients who do receive blood transfusions may experience complications such as fever, viral and infectious illnesses, allergic responses, and even bloodborne diseases, further exacerbating the healthcare burden in these regions. These factors, combined with the inherent challenges faced by low-income countries, are expected to significantly hinder the growth and expansion of the thalassemia treatment market in these underserved areas.

### Key Market Trends

#### Technical Improvements

According to the American Cancer Society, an estimated 1.32 million individuals are currently living with leukemia and lymphoma, two types of blood cancers. Similarly, the National Kidney Foundation reports that chronic kidney disorders affect approximately 10% of the global population, highlighting the widespread impact of these conditions. As the incidence of chronic illnesses continues to rise, the demand for blood and blood products is expected to increase significantly, consequently driving the growth of the blood transfusion devices market. Moreover, advancements in apheresis devices, infusion pumps, blood warmers, and transfusion filters have not only improved the safety of blood transfusions but also enhanced the quality of the blood, ensuring highly purified and safe transfusions for patients in need. These technical improvements have played a crucial role in making blood transfusions more accessible and beneficial for individuals requiring such medical interventions.

#### Introduction Of Enhanced Diagnostics and Kits

With the continuous advancement of technology in the healthcare sector, we are witnessing remarkable breakthroughs in diagnostic capabilities, leading to more reliable and accurate results. Moreover, the introduction of innovative reagents and kits for

blood transfusion is revolutionizing the field, ensuring safer and more efficient procedures.

Market participants are actively working towards incorporating these technological improvements into testing methodologies, aiming to enhance the overall quality and efficiency of medical diagnostics. An example of such progress is the development of plasma fractionation techniques, which enable the separation and isolation of specific blood components for various therapeutic applications. This technical innovation opens up new possibilities and avenues for market expansion. Furthermore, the increasing demand for molecular-based illness screening is driving the need for advanced diagnostic systems. These sophisticated platforms not only provide faster and more accurate results but also enable early detection and personalized treatment approaches. With regulatory approvals and widespread adoption, these cutting-edge systems have the potential to significantly impact the market throughout the projected period.

## Segmental Insights

### Product Insights

Based on Product, the market for Blood Transfusion Devices is segmented into Apheresis Systems, Infusion Devices, Blood Warmers, Venous Access Devices, Filters, and Others. In 2022, the Apheresis Systems segment emerged as the dominant force in the market. This can be attributed to its wide-ranging applications in the treatment of leukostasis, a condition characterized by an elevated white blood cell count in leukemia patients. Additionally, the apheresis system is also utilized in the management of severe rheumatoid arthritis, aiding in the reduction of risks associated with antibody-mediated rejection of organs. Furthermore, it proves beneficial in the treatment of various conditions such as Goodpasture syndrome, systemic lupus, dermatomycosis, and polymyositis. With such versatile applications, the Apheresis Systems segment is expected to drive significant growth in the market over the forecast period.

### End User Insights

Based on the end user segment, the market for blood transfusion devices is segmented into hospitals, ambulatory surgical centers, dialysis centers, blood banks, and other facilities. In 2022, the hospitals segment emerged as the dominant player in the market. This can be attributed to the growing number of surgical procedures being performed in hospital settings, which is expected to drive the growth of this segment.



Furthermore, the increasing prevalence of obstetrics and gynecological procedures, such as cesarean sections and hysterectomies, being carried out in hospitals contributes to the demand for blood transfusion devices. Additionally, the rising number of cardiovascular procedures, including bypass surgeries and angioplasties, being conducted in hospital settings further bolsters the overall market growth over the forecast period. These trends highlight the significant role that hospitals play in the adoption and utilization of blood transfusion devices in the healthcare industry. As hospitals continue to be the primary location for various medical procedures, the demand for efficient and reliable blood transfusion devices is expected to witness sustained growth.

### Regional Insights

North America, consisting of the United States, Canada, and Mexico, is projected to hold a dominant share in the blood transfusion devices market from 2024 to 2028. This can be attributed to several factors. Firstly, the presence of key players in the United States contributes significantly to its large market share. Additionally, the rising healthcare expenses in the region, coupled with the increasing number of surgeries, further fuels the demand for blood transfusion devices. Moreover, the region benefits from growing government frameworks and an expanding healthcare infrastructure, which enhance the accessibility and adoption of blood transfusion devices. Furthermore, the awareness of blood transfusion devices is increasing due to the scarcity of allogeneic blood, further driving the market growth in North America.

On the other hand, the Asia Pacific region is expected to exhibit the highest compound annual growth rate (CAGR) in the blood transfusion devices market. This growth can be attributed to various factors as well. The region is witnessing a rise in chronic illnesses, which necessitates the use of blood transfusion devices for effective blood management. Moreover, the increasing awareness of cell salvage technologies among healthcare professionals and the general population further drives the demand for blood transfusion devices. Additionally, the region is witnessing increased investments in healthcare infrastructure, which positively impacts the market size of blood transfusion devices. In conclusion, both North America and the Asia Pacific region are poised to experience significant growth in the blood transfusion devices market, driven by various factors unique to each region.

### Key Market Players

Immucor Inc.

Becton Dickinson and Company

B. Braun Melsungen AG

Terumo Corporation

Grifols SA

Kaneka Corporation

Fresenius Kabi AG

Haemonetics Corporation

Macopharma SA

Ecomed Solutions, LLC.

Report Scope:

In this report, the Global Blood Transfusion Devices Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Blood Transfusion Devices Market, By Product:

Apheresis Systems

Infusion Devices

Blood Warmers

Venous Access Devices

Filters

Others



### Blood Transfusion Devices Market, By Blood Component:

Whole Blood

Plasma

RBC

Others

### Blood Transfusion Devices Market, By End User:

Hospital

Ambulatory Surgical Centers

Dialysis Centers

Blood Bank

Other

### Blood Transfusion Devices Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Blood Transfusion Devices Market.

## Available Customizations:

Global Blood Transfusion Devices market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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