

# Therapeutic Plasma Exchange Market: Current Analysis and Forecast (2025-2033)

<https://marketpublishers.com/r/T61CB19921F0EN.html>

Date: August 2025

Pages: 140

Price: US\$ 3,999.00 (Single User License)

ID: T61CB19921F0EN

## Abstracts

Therapeutic plasma exchange (TPE) is an extracorporeal procedure of blood purification that is applied to treat patients with a range of conditions. TPE is a relatively common treatment modality nowadays. It shows positive clinical outcomes in the management of Guillain-Barré syndrome, thrombotic thrombocytopenic purpura (TTP), myasthenia gravis, and Goodpasture syndrome.

The Therapeutic Plasma Exchange market is set to show a growth rate of about 7.98% during the forecast period (2025-2033F). The therapeutic plasma exchange (TPE) market is fueled by the increase in the incidence of autoimmune and neurological diseases like myasthenia gravis, Guillain-Barré syndrome, and multiple sclerosis. The market is also boosted by a growing awareness of advanced treatment products, increasing demand for plasma-derived therapies, and the rising adoption in critical care. Adoption is also supported by technological innovations in apheresis devices, making it easy to use in different healthcare settings.

Based on the product category, the market is categorized into devices and consumables. Out of these, the devices currently hold the maximum market share in the therapeutic plasma exchange market, primarily due to their high cost, long lifespan, and repeated use in various treatment sessions, which in turn significantly increases revenue. However, the consumables segment is expected to witness the fastest growth in the future, due to their frequent application in every procedure, a surge in high volumes of procedures, and the increasing implementation of single-use kits to minimize the risk of infection.

Based on the technology category, the market is categorized into centrifugation and membrane separation. Among these, centrifugation technology currently

holds the largest market share in the therapeutic plasma exchange market, as it is widely accessible, reasonably priced, and capable of processing large volumes of plasma efficiently. However, membrane separation technology is expected to grow significantly in the future, owing to its benefits, which include selective filtration, a reduced requirement for replacement fluid, and a lower chance of contamination.

Based on the indication category, the market is segmented into neurological disorders, hematological disorders, renal disorders, metabolic disorders, and other indications. Among these, neurological disorders hold the maximum market share, owing to the high rate of diseases, like myasthenia Gravis, Guillain-Barré syndrome, and multiple sclerosis, in which TPE is commonly used as a treatment measure. However, the renal disorders segment is expected to witness the fastest growth in the coming years, owing to rising cases of renal ailments and the broad utilization of TPE in the management of diseases such as Goodpasture syndrome and antibody-mediated transplant rejection, backed by growing clinical trials and treatment authorizations.

Based on the end-user category, the market is segmented into hospitals and clinics, ambulatory surgical centers, and other end users. Among these, hospitals and clinics have the largest market share in the Therapeutic Plasma Exchange market because of their refined infrastructural systems, presence of specialized healthcare professionals, and capability of managing complex procedures and emergency cases. However, ambulatory surgical centers are expected to grow at a faster rate in the future, as outpatient procedures are performed at reduced costs and with shorter wait times.

For a better understanding of the demand of therapeutic plasma exchange, the market is analyzed based on its worldwide adoption in countries such as North America (U.S., Canada, and the Rest of North America), Europe (Germany, U.K., France, Spain, Italy, Rest of Europe), Asia-Pacific (China, Japan, India, and the Rest of Asia-Pacific), and Rest of World. Among these, North America holds the largest market share, due to its well-developed healthcare infrastructure, high awareness and reimbursement rates, and high prevalence of autoimmune and neurological diseases in the region. However, the Asia-Pacific region is expected to witness the fastest growth in the coming years due to rising healthcare investments, increasing incidence of neurological diseases, improving access to advanced treatments, and growing awareness of plasma-based therapies.

Some major players running in the market include Nikkiso Co., Ltd., Miltenyi Biotec B.V. & Co. KG, Vantive Health LLC, Fresenius Medical Care, Asahi Kasei Corporation, Terumo Corporation, B. Braun SE, Sb-Kawasumi Laboratories, Inc. (Sumitomo Bakelite Co., Ltd.), Maco Pharma, and Octapharma AG.

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