

Plasma Therapy Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: Type (Pure PRP, Leukocyte-Rich PRP, Pure Platelet-Rich Fibrin, and Leukocyte-Rich Fibrin), Source (Autologous and Allogeneic), Application (Orthopedic Conditions, Dermatology, Dental Issues, and Others), End User (Hospitals and Clinics, Research Institutes, and Ambulatory Surgical Centers), and Geography (North America, Europe, Asia Pacific, Middle East & Africa, and South & Central America)

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Abstracts

The plasma therapy market is expected to grow from US\$ 0.390 billion in 2022 to US\$ 1.097 billion by 2030; the market is estimated to register a CAGR of 13.80% from 2022 to 2030. Key factors driving the market growth include the rising cases of orthopedic disorders in people, especially in the geriatric population, the rising number of joint and muscle injuries in athletes, and the surging demand for minimally invasive cosmetic procedures.

Platelet-rich plasma (PRP) is a form of regenerative medicine that amplifies natural growth factors in blood to heal tissue. It entails the utilization of the blood plasma obtained from individuals who have successfully recovered from an illness to address the range of medical conditions and foster the process of healing. PRP treatments find applications in orthopedics for the treatment of joint injuries, dermatology in skin rejuvenation procedures, and dentistry for tissue repair

Rising Cases of Orthopedic Disorders and muscle Injuries and Increasing Use of PRP in Aesthetic Procedures Drive Plasma Therapy Market Growth

According to statistics published by the World Health Organization (WHO) in 2023, ~528 million people across the world were living with osteoarthritis (OA) in 2019, representing an increase of 113% since 1990. An article published in PubMed Central in December 2020 states that the use of PRP offers potential for tissue repair due to the abundance of growth factors and cytokines in this plasma, which are crucial in initiating and modulating regenerative microenvironments for both soft and hard tissues. PRP therapy can be used in the healing of bone fractures, ligament, muscle, and tendon injuries, peripheral nerve injuries, articular cartilage lesions, and osteoarthritis. Therefore, there is a high demand for plasma therapies in orthopedic and tissue repair procedures.

Moreover, PRP is used in cosmetic surgeries for skin rejuvenation, anti-aging, and other aesthetic procedures. Out of 73 studies evaluated in a review published in PubMed Central in November 2021, 45 studies focused on PRP monotherapy, while 35 studies investigated the effects of PRP in combination with microneedling. As a result, the therapies were well-tolerated and suitable for all phototypes. Positive treatment outcomes were identified for various conditions, including skin rejuvenation, scar revision, alopecia, pigmentary disorders, lichen sclerosis, leprosy-induced peripheral neuropathy, plaque psoriasis, and nail disorders.

Therefore, the use of PRP in cosmetic surgeries contributes to the growth of the plasma therapy market.

Market Opportunity

Use of PRP in Combination Therapies

PRP therapy is an evolving treatment method with several applications in dermatology, particularly for hair restoration, skin rejuvenation, acne scars, dermal augmentation, and striae distensae. Using PRP together with laser therapies, microneedling, dermal fillers, and autologous fat grafting can result in better aesthetic outcomes due to synergistic effects. However, there is a need for standardization of PRP treatment protocols for specific conditions. PRP has great potential in dermatology, and its therapeutic applications are continuously expanding. Many studies have been conducted to assess the effect of PRP in combined medical therapy for various dermatological disorders

such as androgenetic alopecia, vitiligo, and skin rejuvenation. For instance, a study, “Evaluation of adding platelet-rich plasma to combined medical therapy in androgenetic alopecia,” published by PubMed Central in 2021, was carried out on 126 patients suffering from Androgenetic alopecia (AGA), a common hair loss disorder, the study concluded that the integration of 'PRP with micro-needling' to the combined medical therapy in AGA boosts its efficacy and reduces the time required for maximum improvement.

Similarly, in another article published by Wiley Online Library in November 2020, a study was carried out to assess various combination therapy strategies for treating vitiligo. The study included eleven studies with 670 cases. It concluded that in comparison to monotherapy, the clinical improvement of re-pigmentation was significantly higher when using a combination of 308-nm excimer laser and PRP. Similarly, a combination of fractional carbon dioxide laser and PRP resulted in a higher mean improvement grade of re-pigmentation.

Therefore, the introduction of PRP-combination therapies is creating various opportunities in the plasma therapy market.

SEGMENTAL OVERVIEW

The plasma therapy market is segmented on the basis of type, source, application, end product, and end user. In terms of type, the market is segmented into pure PRP, leukocyte-rich PRP, pure platelet-rich fibrin, and leukocyte-rich fibrin. The pure platelet-rich fibrin segment held the largest market share in 2022 and is anticipated to register the highest CAGR during 2022–2030. Leukocyte-rich PRP (LR-PRP) is a type of PRP that has a higher concentration of neutrophils (white blood cells) than the baseline level. It is generally associated with proinflammatory effects. However, in some cases, LR-PRP can be beneficial to stimulate inflammation in the body to indicate a chronic condition such as tendinopathy.

The plasma therapy market, by source, is bifurcated into autologous and allogeneic. The autologous segment dominated the market in 2022, and the allogeneic segment is anticipated to record a higher CAGR during 2022–2030. Autologous PRP injection is a secure and reliable biological technique that is used for the treatment of different musculoskeletal disorders. PRP injection can effectively support the primary treatment of patients with chronic autoimmune inflammatory diseases such as rheumatoid arthritis by suppressing the production of inflammatory cytokines and promoting the growth of synovial fibroblasts.

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