

# **Prolotherapy Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Joint Injection Prolotherapy, Ligament Prolotherapy, Tendon Reconstruction Prolotherapy), By Application (Hospitals, Ambulatory Care Centers, Orthopedic Centers, Others), By Region and Competition, 2019-2029F**

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## **Abstracts**

Global Prolotherapy Market was valued at USD 1198.32 Million in 2023 and is anticipated to project impressive growth in the forecast period with a CAGR of 6.85% through 2029. The growth of the Global Prolotherapy can be attributed to the factors like increasing adoption of minimally invasive procedures, increasing cases of bone related diseases, rising number of sports injury cases and inclination towards regenerative medicine. Prolotherapy offers a non-surgical alternative for individuals seeking treatment for chronic musculoskeletal conditions. Many patients prefer non-surgical options to avoid the risks, complications, and lengthy recovery associated with surgical interventions. Prolotherapy provides a minimally invasive treatment approach that can help alleviate pain and promote healing without the need for surgery. Prolotherapy allows for targeted treatment by injecting a solution directly into the affected area, such as a joint, ligament, or tendon. By delivering the treatment directly to the site of injury or tissue damage, prolotherapy aims to stimulate healing and tissue regeneration in a specific area, enhancing the chances of successful outcomes.

### **Key Market Drivers**

Rising Adoption of Non-Surgical Treatment Option

Prolotherapy offers a non-surgical alternative for individuals seeking treatment for chronic musculoskeletal conditions, such as joint pain, ligament or tendon injuries, and osteoarthritis. It provides an option to avoid or delay surgical intervention, which may be helpful to patients looking for conservative treatment approaches.

Prolotherapy is a minimally invasive procedure that involves injecting a solution (commonly a dextrose-based solution) directly into the affected area. It does not require general anesthesia or extensive surgical incisions, making it less invasive and associated with fewer risks and complications compared to surgical interventions. The demand for prolotherapy is increasing among the people seeking for non-surgical treatment for their knee and joint related pain.

Many patients report positive outcomes and symptom relief after undergoing prolotherapy. Studies have shown that prolotherapy can stimulate tissue repair, improve joint stability, reduce pain, and enhance function in various musculoskeletal conditions. The perceived effectiveness of prolotherapy drives its demand among patients and healthcare providers. Prolotherapy is often considered a cost-effective treatment option compared to surgery or long-term medication use. It typically involves a series of injections performed on an outpatient basis, which can be more affordable for patients in terms of healthcare expenses and recovery costs. Hence, in the countries where health care expenditure is low, the use of prolotherapy is rising due to high cost of surgeries in the country.

Moreover, the awareness and acceptance of prolotherapy have been growing among healthcare professionals, athletes, and individuals seeking alternative therapies for chronic pain and musculoskeletal conditions. As more research and evidence supporting the effectiveness of prolotherapy become available, its acceptance within the medical community is likely to increase.

### Growing Interest in Regenerative Medicine

Regenerative medicine, which focuses on harnessing the body's own healing abilities, has gained significant attention in recent years. Prolotherapy aligns with the principles of regenerative medicine by stimulating tissue regeneration and repair, making it attractive to individuals seeking natural healing methods.

One of the regenerative injectable techniques used to treat many chronic musculoskeletal disorders is prolotherapy. An increase in published treatment outcome studies that support anecdotal evidence that prolotherapy is effective in treating many

conditions with few side effects, including osteoarthritis (OA), musculoskeletal pain, joint pain and laxity, chronic low back pain, and OA, has coincided with an increase in prolotherapy interest over the past 20 years among both doctors and patients. There is growing agreement that dextrose prolotherapy is an effective treatment option for patients with chronic tendinopathy who continue to have pain despite receiving the proper rehabilitation activity but do not respond to surgery. Dextrose injections are thought to be effective in treating tendinopathy because they trigger a healing response because of cell membrane disruption brought on by a considerable alteration in the osmotic pressure between the extracellular matrix and tendon fibroblasts. The inflammatory cytokines and chemotactic substances that are released from the cell membrane attract granulocytes and platelets, which in turn release growth factors.

### Rising Incidence of Musculoskeletal Diseases

The burden of musculoskeletal diseases and disorders is expected to increase due to the expected ageing of the baby boomer population. The severity of musculoskeletal diseases is exacerbated by increased body mass index, which places significant stress and pressure on weight-bearing joints, particularly the lower back, hips, and knees. The Centers for Disease Control report that obese adults are diagnosed with arthritis twice as frequently as nonobese people. Due to biomechanical problems associated with having a higher body weight, obese people are also more likely to have injuries to the joints of their upper extremities. Musculoskeletal disorders are becoming more common and severe, which has increased interest in nonsurgical treatments that are equally as effective as surgical ones but are less expensive, risky, and require less recovery time thus opting for prolotherapy treatment. According to the Burden of Musculoskeletal Diseases, more than one in every two Americans aged 18 and older and nearly three out of every four Americans aged 65 and older are affected by musculoskeletal diseases. Musculoskeletal illnesses are becoming a bigger burden every year as the US population ages. The sections of this website show the extent of musculoskeletal disorders in the US population and give a glimpse of their cost and economic impact.

Prolotherapy is commonly employed to treat ligament and tendon injuries. When ligaments or tendons are damaged or weakened, prolotherapy injections can help strengthen the tissues and promote healing. It is often used for conditions such as tennis elbow, Achilles tendonitis, sprained ligaments, and chronic ankle instability.

Prolotherapy can be beneficial for individuals with joint instability. This instability may result from ligament or capsule laxity, which can lead to recurrent joint dislocations or subluxations. Prolotherapy injections can help strengthen and stabilize the joint

structures, reducing the likelihood of further instability.

Prolotherapy injections can be used as a conservative treatment option for osteoarthritis. The injections help stimulate tissue repair, reduce inflammation, and alleviate pain associated with degenerative joint changes. Prolotherapy may be particularly beneficial for individuals who wish to avoid or delay surgical intervention.

### Increasing Sports Related Injuries Among Athletes

Addressing the rising cases of sports injuries requires a comprehensive approach, including injury prevention strategies, proper training techniques, adequate rest and recovery, and timely medical intervention.

Prolotherapy is frequently used in the treatment of sports-related injuries. Athletes may experience ligament sprains, tendonitis, or joint instability due to repetitive stress or trauma. Prolotherapy injections can promote healing and help athletes recover faster, allowing them to return to their sport with improved joint stability and reduced pain.

Prolotherapy can be used to address chronic back and neck pain, including conditions like degenerative disc disease, spinal arthritis, and facet joint syndrome. The injections target the damaged or weakened structures in the spine, promoting tissue regeneration and reducing pain and stiffness.

According to a report published in National Institutes of Health, shows that a total of 40.4% of the participants were wounded in 2019 (with 39% of those injuries occurring in a location that had already been injured) in the adolescent age group. The injury rate was 2.64 per 1000 hours on average. The rate was highest for football (7.21). Ankle sprains (11.98%), bone fractures (9.31%), and lumbar muscle strains (12.24%) were the most frequent injuries. The most injuries occurred in the shoulders (6.47%), knees (19.32%), and ankles (36.12). 49.28% of the injuries happened during practices, while 40.72% happened during competitions or peri-competitions. The knee, ankle, and other bone injuries is the most commonly occurring sports related injury among the sports player which frequently require visits to orthopedic centers and hospitals for treatment. Most of the treatment which does not require surgical intervention undergoes prolotherapy which is cost effective and efficient in treating bone related conditions.

### Key Market Challenges

#### Limited Clinical Evidence and Regulatory Uncertainty

A significant challenge hindering the growth of the global prolotherapy market is the limited availability of high-quality clinical evidence supporting the efficacy, safety, and long-term outcomes of prolotherapy interventions. While prolotherapy has been used clinically for decades and has demonstrated promising results in some studies, the existing body of evidence is often characterized by methodological limitations, small sample sizes, and variability in treatment protocols, leading to uncertainty among healthcare providers and regulatory authorities about its clinical utility and appropriate use.

The lack of robust clinical evidence poses challenges for healthcare providers in making informed decisions about incorporating prolotherapy into their practice guidelines and treatment algorithms. Moreover, regulatory agencies may be hesitant to endorse or approve prolotherapy as a standard treatment option for certain indications without sufficient evidence of its safety and efficacy. This regulatory uncertainty can create barriers to market entry for prolotherapy products and limit investment in research and development efforts aimed at advancing the evidence base for this treatment modality.

### Reimbursement Issues and Cost Constraints

The lack of standardized reimbursement policies and the cost constraints associated with this treatment modality. Prolotherapy is often considered an elective or complementary therapy, which may not be covered by health insurance plans or reimbursed by government healthcare programs in many countries. As a result, patients may be required to bear the full cost of prolotherapy treatments out of pocket, making it financially inaccessible for some individuals, particularly those with limited financial resources or inadequate insurance coverage.

The absence of reimbursement for prolotherapy creates barriers to adoption for both patients and healthcare providers, as the perceived financial burden may deter patients from pursuing treatment and discourage healthcare providers from offering prolotherapy services in their practices. Additionally, the lack of standardized reimbursement policies complicates the billing and administrative processes for healthcare providers, further impeding the integration of prolotherapy into mainstream healthcare settings.

### Key Market Trends

#### Technological Advancements and Treatment Innovations

Advancements in technology and treatment innovations are driving the evolution of prolotherapy techniques and enhancing its effectiveness and applicability. From the development of advanced imaging modalities for precise injection guidance to the refinement of injection techniques and solution formulations, technological innovations are expanding the capabilities of prolotherapy and improving treatment outcomes. For example, the use of ultrasound or fluoroscopy guidance allows for more accurate targeting of damaged tissues, while the incorporation of growth factors or stem cells into prolotherapy solutions may enhance tissue regeneration and healing. These technological advancements not only improve the efficacy of prolotherapy but also contribute to its acceptance and adoption among healthcare providers and patients seeking cutting-edge treatment options.

### Shift Towards Value-based Healthcare Models

The shift towards value-based healthcare models, which prioritize patient outcomes and cost-effectiveness, is driving the adoption of prolotherapy as a viable treatment option for chronic pain management. Value-based care models incentivize healthcare providers to focus on improving patient health outcomes and reducing healthcare costs by emphasizing preventive care, early intervention, and evidence-based treatments. Prolotherapy aligns with these principles by offering a minimally invasive, cost-effective solution for addressing chronic musculoskeletal pain conditions. As healthcare systems and payers increasingly prioritize value-based care initiatives, there is growing recognition of prolotherapy as a valuable component of comprehensive pain management strategies that deliver favorable outcomes while optimizing healthcare resource utilization.

### Segmental Insights

#### Type Insights

Based on the type, joint injection prolotherapy emerges as the dominant type, holding a significant share due to its wide applicability and effectiveness in addressing various musculoskeletal conditions. Joint Injection Prolotherapy involves the injection of irritant solutions directly into the affected joints to stimulate the body's natural healing processes and promote tissue repair. This type of prolotherapy is particularly favoured for its ability to provide targeted relief for conditions such as osteoarthritis, rheumatoid arthritis, and other degenerative joint diseases. By injecting the irritant solution into the joint space, Joint Injection Prolotherapy aims to strengthen the ligaments and stabilizing structures surrounding the joint, thereby reducing pain, improving joint function, and



enhancing overall mobility.

The dominance of Joint Injection Prolotherapy can be attributed to several factors. Firstly, the high prevalence of joint-related conditions, such as osteoarthritis, among aging populations globally has fuelled the demand for effective treatment options that offer long-term relief without the need for surgery. Joint Injection Prolotherapy provides a minimally invasive alternative to surgical interventions, making it a preferred choice for patients seeking conservative management of their joint pain.

### Application Insights

Based on the application segment, hospitals dominate the global prolotherapy market due to their widespread accessibility, comprehensive infrastructure, and ability to cater to diverse patient populations with varying healthcare needs.

Hospitals serve as key healthcare institutions that are accessible to a wide range of patients, regardless of their geographical location or socioeconomic status. With their extensive networks and established presence in both urban and rural areas, hospitals provide a convenient and familiar setting for patients seeking prolotherapy treatment. This accessibility ensures that individuals with musculoskeletal conditions can readily access prolotherapy services without facing significant barriers related to travel or distance.

Additionally, hospitals offer comprehensive infrastructure and resources that are essential for delivering prolotherapy services effectively. These include advanced diagnostic facilities, operating theaters, specialized clinics, and rehabilitation centers, which are instrumental in the diagnosis, treatment, and follow-up care of patients undergoing prolotherapy procedures. The availability of specialized equipment, such as ultrasound machines, fluoroscopy systems, and injection suites, further enhances the precision and safety of prolotherapy treatments performed within hospital settings.

### Regional Insights

North America emerges as the dominant region in the global prolotherapy market, owing to several key factors that contribute to its prominent position in the industry.

North America boasts a well-developed healthcare infrastructure, characterized by advanced medical facilities, highly trained healthcare professionals, and robust regulatory frameworks. This favorable environment facilitates the adoption and

integration of prolotherapy as a mainstream treatment modality for musculoskeletal conditions. Healthcare providers in North America are well-equipped with the knowledge, resources, and expertise required to deliver prolotherapy services effectively, driving the widespread acceptance and utilization of this treatment approach.

North America is home to a large population of individuals affected by musculoskeletal disorders, including osteoarthritis, sports injuries, and chronic pain syndromes. The prevalence of these conditions, coupled with the growing awareness of non-surgical treatment options such as prolotherapy, fuels the demand for prolotherapy services in the region. Patients in North America seek innovative and evidence-based solutions to manage their musculoskeletal pain and improve their quality of life, driving the growth of the prolotherapy market.

### Key Market Players

Pfizer Inc.

Baxter International Inc.

B. Braun AG

Fresenius SE Co. KGaA

ICU Medical, Inc.

Johnson Johnson

Arthex Inc.

Aurobindo Pharma Limited

Terumo Corporation

Amphastar Pharmaceuticals, Inc.

### Report Scope:

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



## Prolotherapy Market,By Type:

- oJoint Injection Prolotherapy

- oLigament Prolotherapy

- oTendon Reconstruction Prolotherapy

## Prolotherapy Market,By Application:

- oHospitals

- oAmbulatory Care Centers

- oOrthopedic Centers

- oOthers

## Prolotherapy Market, By Region:

- oNorth America

  - United States

  - Canada

  - Mexico

- oEurope

  - France

  - United Kingdom

  - Italy

  - Germany

Spain

oAsia-Pacific

China

India

Japan

Australia

South Korea

oSouth America

Brazil

Argentina

Colombia

oMiddle East Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Prolotherapy Market.

#### Available Customizations:

Global Prolotherapy 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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