

Primary Immunodeficiency Disorders Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Primary Immunodeficiency Disorders Market was valued at USD 7.8 billion in 2024 and is estimated to grow at a CAGR of 6.1% to reach USD 13.9 billion by 2034. This growth is primarily driven by the rising incidence of primary immunodeficiency disorders (PIDs) and the increasing recognition of these conditions among medical professionals and patients. Advancements in both diagnostic approaches and therapeutic innovations, such as gene-based therapies and biologics, are creating expanded opportunities for effective treatment and management. Enhanced investment in research and development, coupled with growing awareness of these rare genetic disorders, is improving access to accurate diagnoses and more targeted care. As healthcare systems evolve to address rare conditions more holistically, patients are benefiting from better outcomes and improved quality of life through early intervention, personalized therapies, and continuous monitoring.

Training in immunology continues to improve among healthcare providers, allowing earlier identification and intervention for patients with suspected immunodeficiency disorders. Patient advocacy organizations and community support groups are playing a crucial role in connecting individuals to care networks and pushing for systemic changes in healthcare policy. This broader engagement is helping increase access to advanced diagnostic tools, such as genetic sequencing and flow cytometry, which are being adopted globally to aid in detecting and classifying PIDs.

The rise of urbanization and access to better healthcare services, along with increasing disposable incomes in developing regions such as South Africa, Brazil, India, and China, is encouraging people to seek medical evaluations and pursue proper treatment. Primary immunodeficiency disorders are inherited immune system conditions that lead

to higher vulnerability to infections, chronic illnesses, and overall weakened immune function. Treatment innovations are focused on improving immunity, alleviating symptoms, and minimizing disease recurrence.

The antibody deficiencies segment represented the largest market segment in 2024, with a valuation of USD 4.1 billion. This dominance stems from the high prevalence of immune disorders linked to impaired antibody production. Among the most common are immunodeficiencies that result in frequent, severe infections requiring lifelong therapy. Patients with these conditions typically need regular immunoglobulin therapy administered through intravenous or subcutaneous methods, which contributes to sustained product demand. Ongoing medical advancements are ensuring more efficient and patient-friendly delivery systems, expanding this segment's growth potential.

In terms of treatment, the immunoglobulin replacement therapy (IRT) segment held a 68.3% share in 2024. The continued reliance on IRT as a standard care protocol for most antibody-related immunodeficiencies reinforces its strong market presence. These therapies offer long-term protection from infections, which is essential in managing these lifelong conditions. Recent improvements in treatment formulations, including options with extended half-lives and recombinant technology, are further increasing therapy effectiveness and patient comfort. Additionally, greater awareness and advocacy support early treatment initiation and improved adherence, which directly supports this market's expansion. Healthcare providers now recognize IRT as a cornerstone therapy in PID treatment, prompting its broader acceptance and usage.

U.S. Primary Immunodeficiency Disorders Market was valued at USD 2.9 billion in 2024. The country leads the global market with a robust healthcare infrastructure, widespread adoption of advanced diagnostics, and strong public and clinical awareness of immunodeficiency disorders. Diagnostic tools, including immune profiling, flow cytometry, and advanced genetic testing, are widely used to confirm and classify PID cases, especially among children. The availability of cutting-edge therapies such as gene editing technologies and stem cell-based interventions is giving U.S. patients access to some of the most innovative treatments globally. Specialized clinics, immunology-focused hospitals, and home-based care delivery models have all contributed to market maturity. Strong research investments in targeted biologics, next-generation immunoglobulins, and novel therapies for rare diseases continue to shape the market's evolution.

Leading companies in the Primary Immunodeficiency Disorders Market include Orchard Therapeutics, Miltenyi Biotec, CSL Behring, Baxter International, Medac, Octapharma,

ADMA Biologics, Takeda Pharmaceutical, F. Hoffmann La Roche, Bluebird Bio, Biotest (Grifol Group), Avanos, and Leadiant Biosciences. Companies operating in the primary immunodeficiency disorders market are pursuing several strategies to enhance their market presence.

One major focus is investing in advanced R&D pipelines for targeted biologics, gene therapies, and next-gen immunoglobulin therapies with enhanced bioavailability and reduced administration frequency. Firms are also expanding manufacturing capabilities to meet the growing demand for lifelong immunoglobulin replacement therapies. Strategic collaborations with academic institutions and research centers allow access to emerging technologies and new indications. Companies are increasing market penetration through geographic expansion, especially in developing regions with rising diagnostic awareness.

Companies Mentioned

ADMA Biologics, Baxter International, Biotest (Grifol Group), Bluebird Bio, CSL Behring, F. Hoffmann La Roche, Leadiant Biosciences, Medac, Miltenyi Biotec, Takeda Pharmaceutical, Octapharma, Orchard Therapeutics

Contents

Report Content

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market scope and definition
- 1.2 Research design
 - 1.2.1 Research approach
 - 1.2.2 Data collection methods
- 1.3 Data mining sources
 - 1.3.1 Global
 - 1.3.2 Regional/country
- 1.4 Base estimates and calculations
 - 1.4.1 Base year calculation
 - 1.4.2 Key trends for market estimation
- 1.5 Primary research and validation
 - 1.5.1 Primary sources
- 1.6 Forecast model
- 1.7 Research assumptions and limitations

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis
- 2.2 Key market trends
 - 2.2.1 Regional
 - 2.2.2 Disease type
 - 2.2.3 Treatment type
 - 2.2.4 Age group
 - 2.2.5 End use
- 2.3 CXO perspectives: Strategic imperatives
 - 2.3.1 Key decision points for industry executives
 - 2.3.2 Critical success factors for market players
- 2.4 Future outlook and strategic recommendations

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Supplier landscape

- 3.1.2 Value addition at each stage
- 3.1.3 Factor affecting the value chain
- 3.2 Industry impact forces
 - 3.2.1 Growth drivers
 - 3.2.1.1 High prevalence of primary immunodeficiency disorders
 - 3.2.1.2 Rising pediatric population
 - 3.2.1.3 Technological advancement in diagnostics and treatment
 - 3.2.1.4 Growing demand for immunoglobulin replacement therapy (IRT)
 - 3.2.2 Industry pitfalls and challenges
 - 3.2.2.1 High cost of treatment
 - 3.2.2.2 Shortage of plasma-derived products
 - 3.2.3 Market opportunities
 - 3.2.3.1 Expanding indications for immunoglobulin therapy
 - 3.2.3.2 Pipeline expansion in gene therapy and biologics
- 3.3 Growth potential analysis
- 3.4 Regulatory landscape
 - 3.4.1 North America
 - 3.4.2 Europe
 - 3.4.3 Asia Pacific
- 3.5 Technology landscape
- 3.6 Future market trends
- 3.7 Pipeline analysis
- 3.8 Consumer behaviour analysis
- 3.9 Porter's analysis
- 3.10 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company matrix analysis
- 4.3 Company market share analysis
- 4.4 Competitive analysis of major market players
- 4.5 Competitive positioning matrix
- 4.6 Key developments
 - 4.6.1 Merger and acquisition
 - 4.6.2 Partnership and collaboration
 - 4.6.3 New product launches

CHAPTER 5 MARKET ESTIMATES AND FORECAST, BY DISEASE TYPE, 2021 –

2034 (\$ MN)

- 5.1 Key trends
- 5.2 Antibody deficiencies
- 5.3 Combined immunodeficiencies
- 5.4 Complement deficiencies
- 5.5 Phagocytic disorders
- 5.6 Other disease types

CHAPTER 6 MARKET ESTIMATES AND FORECAST, BY TREATMENT TYPE, 2021 – 2034 (\$ MN)

- 6.1 Key trends
- 6.2 Immunoglobulin replacement therapy (IRT)
- 6.3 Hematopoietic stem cell transplantation (HSCT)
- 6.4 Gene therapy
- 6.5 Other treatment types

CHAPTER 7 MARKET ESTIMATES AND FORECAST, BY AGE GROUP, 2021 – 2034 (\$ MN)

- 7.1 Key trends
- 7.2 Pediatric
- 7.3 Adult

CHAPTER 8 MARKET ESTIMATES AND FORECAST, BY END USE, 2021 – 2034 (\$ MN)

- 8.1 Key trends
- 8.2 Hospitals
- 8.3 Specialty Clinics
- 8.4 Homecare Settings
- 8.5 Other end use

CHAPTER 9 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 – 2034 (\$ MN)

- 9.1 Key trends
- 9.2 North America

- 9.2.1 U.S.
- 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.2 UK
 - 9.3.3 France
 - 9.3.4 Spain
 - 9.3.5 Italy
 - 9.3.6 Netherlands
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 India
 - 9.4.3 Japan
 - 9.4.4 Australia
 - 9.4.5 South Korea
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
 - 9.5.3 Argentina
- 9.6 Middle East and Africa
 - 9.6.1 South Africa
 - 9.6.2 Saudi Arabia
 - 9.6.3 UAE

CHAPTER 10 COMPANY PROFILES

- 10.1 ADMA Biologics
- 10.2 Baxter International
- 10.3 Biotest (Grifol Group)
- 10.4 Bluebird Bio
- 10.5 CSL Behring
- 10.6 F. Hoffmann La Roche
- 10.7 Leadiant Biosciences
- 10.8 Medac
- 10.9 Miltenyi Biotec
- 10.10 Takeda Pharmaceutical
- 10.11 Octapharma
- 10.12 Orchard Therapeutics

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