

Adult Stem Cells Market Size, Share & Trend Analysis Report By Type (Autologous Adult Stem Cells, Allogeneic Adult Stem Cells), By Product & Services (Product, Services), By Indication, By Application, By End Use, And Segment Forecasts, 2024 - 2030

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Abstracts

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Adult Stem Cells Market Size & Trends

The global adult stem cells market size was valued at USD 12.35 billion in 2023 and is projected to grow at a CAGR of 11.2% from 2024 to 2030, driven by several key factors. These cells, found in various tissues and organs, hold immense potential for regenerative medicine and therapeutic applications. As research continues to uncover their capabilities, the market is poised for significant expansion in the coming years. Research and development (R&D) efforts in adult stem cell therapies have intensified, propelled by advances in biotechnology and molecular biology.

Scientists are exploring new sources of adult stem cells, optimizing culture techniques, and refining methods for differentiation into specialized cell types. For instance, Boston Children's Hospital has achieved significant milestones in adult stem cell research, including the isolation of lung stem cells from both normal lungs and those affected by lung cancer. These innovations are expanding the scope of potential applications in treating a wide range of diseases and injuries, from cardiovascular disorders to neurological conditions.

One of the most important drivers of the market is the increasing investment in research and development. Pharmaceutical companies, biotechnology firms, and academic

Institutions are allocating significant resources to explore the therapeutic potential of adult stem cells across various medical applications. For instance, the Department of Biotechnology (DBT) in India is actively supporting initiatives in many areas of stem cell research from 2019 to 2022. These initiatives include fundamental biological insights, translational research projects, and genetics conversion technologies for power and clinical applications. During this period, DBT committed USD 8.80 million to these projects. These investments support preclinical studies, clinical trials, and the development of scalable manufacturing processes.

Advanced technologies such as CRISPR-Cas9 gene editing and induced pluripotent stem cells (iPSCs) are enhancing researchers' ability to manipulate and utilize stem cells effectively. As R&D efforts yield promising results and regulatory frameworks evolve, the market is poised to expand, offering innovative solutions for treating complex diseases and improving patient outcomes globally.

In addition, the increasing prevalence of chronic diseases represents a significant driver of market growth. Conditions such as diabetes, cardiovascular diseases, and neurodegenerative disorders are rising due to aging populations and lifestyle factors. As per the February 2024 report released by the CDC, roughly 129 million individuals in the U.S. are impacted by at least one significant chronic illness. Adult stem cells offer potential therapies that can address the underlying causes of these diseases, providing regenerative solutions that traditional treatments often cannot match. As healthcare systems seek more effective and personalized approaches to managing chronic conditions, the demand for adult stem cell therapies is expected to grow, fueling further research, development, and adoption in clinical settings.

Furthermore, regulatory agencies worldwide are establishing guidelines to ensure the safety, efficacy, and ethical use of adult stem cell therapies. Streamlined approval processes and clearer regulatory pathways encourage investment in commercialization and market expansion, facilitating patient access to advanced treatment options.

Global Adult Stem Cells Market Report Segmentation

This report forecasts revenue growth at country levels and provides an analysis on the latest industry trends and opportunities in each of the sub-segments from 2018 to 2030. For the purpose of this study, Grand View Research has segmented the global adult stem cells market report based on type, product & services, indication, application, end use, and region.

Type Outlook (Revenue, USD Billion, 2018 - 2030)

Autologous Adult Stem Cells

Allogeneic Adult Stem Cells

Product & Services Outlook (Revenue, USD Billion, 2018 - 2030)

Product

Kits, Media, & Reagents

Cells & cell lines

Hematopoietic

Mesenchymal

Neural

Epithelial/Skin

Others

Services

Indication Outlook (Revenue, USD Billion, 2018 - 2030)

Bone and Cartilage Repair

Cardiovascular Diseases

Inflammatory and Immunological Diseases

Liver diseases

Cancer

GvHD

Others

Application Outlook (Revenue, USD Billion, 2018 - 2030)

Therapeutics

Disease Modeling

Drug Development & Discovery

Toxicology Studies

Biobanking

Tissue Engineering

Others

End Use Outlook (Revenue, USD Billion, 2018 - 2030)

Biopharmaceutical Companies

Research Institutes

Hospitals & Clinics

Regional Outlook (Revenue, USD Billion, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Norway

Denmark

Sweden

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

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