

# **Stem Cell Therapy Market Forecast to 2028 - COVID-19 Impact and Global Analysis By Type (Adult Stem Cell Therapy, Embryonic Stem Cell Therapy, Induced Pluripotent Stem Cell Therapy, and Other Stem Cell Therapy), Treatment (Allogeneic and Autologous), Application (Musculoskeletal, Dermatology, Cardiology, Drug Discovery & Development, and Other Applications), and End User (Hospitals & Specialty Clinics and Academic & Research Institutes), and Geography**

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## **Abstracts**

The stem cell therapy market size is expected to grow from US\$ 2,278.49 million in 2022 to US\$ 6,206.89 million by 2028. The market is estimated to register a CAGR of 18.2% from 2022 to 2028.

The growth of the global stem cell therapy market is majorly driven by increasing research activities related to stem cell therapy for effective disease management, and growing prevalence of cancer. However, the availability of illegal and unapproved products, and the high cost of approved treatments hamper the market growth.

Stem cells are preliminary body cells from which all other cells with specialized functions are generated. Under a controlled environment in the body or a clinical laboratory, these cells divide to form more cells, called daughter cells. With the advent of modern health science, these cells have been demonstrated to play a major role in understanding the occurrence of diseases, the generation of advanced regenerative

medicines, and the discovery of other drugs. Stem cells are formed in embryos, bone marrow, body fats, and umbilical cord blood, among others.

The US is investing massive resources in its healthcare sector for accelerating research and development activities in stem cell technologies. These activities are projected to drive organic developments such as product launches, product approvals, and new product innovations. Financial aid from investors, government authorities, and significant players is, thus, likely to favor the stem cell therapy market growth in the US. In July 2019, Century Therapeutics raised US\$ 250 million through a financing round to develop induced pluripotent stem cells (iPSC), which will be utilized in an allogeneic cell therapy platform. Moreover, in December 2019, NIH launched the US's first clinical study of patient-derived stem cell therapy for the treatment of the retina. Such studies, combined with developments in regenerative medicine, are expected to drive the acceptance and adoption of stem cell therapy in the US, which, in turn, will drive the market by 2027. For instance, in May 2019, SpinalCyte, LLC, a clinical-stage regenerative medicine company, announced the launch of a new comprehensive platform to raise awareness of the potential benefits served by fibroblasts and their promising applications in regenerative medicine technology.

The COVID-19 pandemic disrupted people's lives and business operations worldwide. The COVID-19 pandemic had a positive impact on the stem cell therapy market. The application of stem cells in the treatment of COVID-19 infection has gathered the attention of medical researchers, resulting in a higher number of clinical trials. Regenerative medicine based on cellular therapies may be developed as a treatment option for patients, lowering infection rates and mortality. Research institutes and companies are collaborating to develop novel treatment options for the disease. For instance, in April 2020, Infectious Disease Research Institute and Celularity announced that the US FDA had approved a clinical trial application to develop cell-based therapy for COVID-19. Thus, researchers are increasingly attempting to develop stem cell therapies targeting COVID-19. In January 2020, researchers from the University of Miami administered two stem cell infusions to COVID-19 patients suffering from lung damage. The results concluded that there were no significant side effects, and the therapy was reliable. Thus, increasing demand for regenerative medicines has had a positive effect on the stem cell therapy market during the COVID-19 pandemic.

The stem cell therapy market in Canada is expected to grow in the future owing to the development of the healthcare sector and rapidly increasing investments in stem cell therapy technology. On the other hand, in Mexico, increasing awareness of the benefits offered by stem cell therapy would benefit the stem cell therapy market.

In 2020, Australia, Japan, Korea, and New Zealand took better measures than other Asia Pacific countries to flatten the curve of SARS-CoV-2 infection. They developed effective testing, tracing, and isolation systems to ensure that people comply with social distancing and similar key guidelines. Other countries, including Vietnam and Thailand, demonstrated the value of a proactive response to contain the virus and limit deaths. However, the onset of the COVID-19 crisis severely affected cancer, heart disease, diabetes, HIV, tuberculosis, and malaria prevention and treatment services in Asia Pacific. The number of COVID-19 cases in India has dropped significantly compared to trends recorded in 2020 and 2021. The repercussions of the pandemic, including supply chain disruptions owing to extended factory shutdowns and production delays, persisted for a short period. However, as the demand exceeded supply, the country experienced a hike in commodity prices.

In a new research methodology for developing a treatment for COVID-19, stem cell therapy and stem-cell-derived organoid models have received high attention. Additionally, clinical studies reveal that various organoids derived from stem cells act as an ideal model to explore the possibility and mechanism of SARS-CoV-2 infecting multiple organs, and the outcomes can better research for clinical treatment. Moreover, stem cell therapy was made available for severe COVID-19 patients and for people recovered from severe complications to facilitate the repair of damaged lungs.

### Application-Based Insights

Based on application, the stem cell therapy market is divided into musculoskeletal, dermatology, cardiology, drug discovery and development, and other applications. The drug discovery and development segment held the largest share of the market in 2021 and is expected to register the highest CAGR during the forecast period.

### End User-Based Insights

Based on end user, the stem cell therapy market is segmented into academic & research institutes and hospitals & clinics. The academic & research institutes segment held a larger share of the market in 2021, and the same segment is expected to register a higher CAGR during the forecast period (2022–2028).

A few of the major primary and secondary sources referred to while preparing the report on the stem cell therapy market are the World Health Organization (WHO), the US Census Bureau, and the US National Library of Medicine.



## Contents

### **1. INTRODUCTION**

- 1.1 Scope of the Study
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
  - 1.3.1 Global Stem Cell Therapy Market – By Type
  - 1.3.2 Global Stem Cell Therapy Market – By Treatment
  - 1.3.3 Global Stem Cell Therapy Market – By Application
  - 1.3.4 Global Stem Cell Therapy Market – By End User
  - 1.3.5 Global Stem Cell Therapy Market – By Geography

### **2. STEM CELL THERAPY MARKET – KEY TAKEAWAYS**

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. STEM CELL THERAPY MARKET– MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 PEST Analysis
  - 4.2.1 North America PEST Analysis
  - 4.2.2 Europe – PEST Analysis
  - 4.2.3 Asia Pacific – PEST Analysis
  - 4.2.4 South and Central America (SCAM) – PEST Analysis
  - 4.2.5 Middle East and Africa PEST Analysis
- 4.3 Experts Opinion

### **5. STEM CELL THERAPY MARKET – KEY MARKET DYNAMICS**

- 5.1 Market Drivers
  - 5.1.1 Increasing Research Activities Related to Stem Cell Therapy for Effective Disease Management
  - 5.1.2 Growing Prevalence of Cancer

## 5.2 Market Restraints

5.2.1 Availability of Illegal and Unapproved Products, and High Cost of Approved Treatments

## 5.3 Market Opportunities

5.3.1 Use of Induced Pluripotent Stem Cells in Regenerative Medicines

## 5.4 Future Trends

5.4.1 Research Activities and Product Innovations

## 5.5 Impact Analysis

# 6. STEM CELL THERAPY MARKET – GLOBAL ANALYSIS

6.1 Global Stem Cell Therapy Market Revenue Forecast and Analysis

6.2 Global Stem Cell Therapy Market, By Geography - Forecast and Analysis

6.3 Market Positioning of Key Players

# 7. GLOBAL STEM CELL THERAPY MARKET – REVENUE AND FORECAST TO 2028 – BY TYPE

7.1 Overview

7.2 Stem Cell Therapy Market Revenue Share, by Type 2021 & 2028 (%)

7.3 Adult Stem Cell Therapy

7.3.1 Overview

7.3.2 Adult Stem Cell Therapy: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

7.3.3 Hematopoietic Stem Cell Therapy

7.3.3.1 Overview

7.3.3.2 Hematopoietic Stem Cell Therapy: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

7.3.4 Umbilical Cord Stem Cell Therapy

7.3.4.1 Overview

7.3.4.2 Umbilical Cord Stem Cell Therapy: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

7.3.5 Neuronal Stem Cell Therapy

7.3.5.1 Overview

7.3.5.2 Neuronal Stem Cell Therapy: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

7.3.6 Mesenchymal Stem Cell

7.3.6.1 Overview

7.3.6.2 Mesenchymal Stem Cell: Stem Cell Therapy Market – Revenue and Forecast to

2028 (US\$ Million)

7.4 Embryonic Stem Cell Therapy

7.4.1 Overview

7.4.2 Embryonic Stem Cell Therapy: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

7.5 Induced Pluripotent Stem Cell Therapy

7.5.1 Overview

7.5.2 Induced Pluripotent Stem Cell Therapy: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

7.6 Other Stem Cell Therapy

7.6.1 Overview

7.6.2 Other Stem Cell Therapy: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

## **8. GLOBAL STEM CELL THERAPY MARKET ANALYSIS AND FORECASTS TO 2028 – BY TREATMENT**

8.1 Overview

8.2 Global Stem Cell Therapy Market, by Treatment 2021 & 2028 (%)

8.3 Allogeneic

8.3.1 Overview

8.3.2 Allogeneic: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

8.4 Autologous

8.4.1 Overview

8.4.2 Autologous: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

## **9. GLOBAL STEM CELL THERAPY MARKET ANALYSIS AND FORECASTS TO 2028 – BY APPLICATION**

9.1 Overview

9.2 Global Stem Cell Therapy Market, by Application 2021 & 2028 (%)

9.3 Musculoskeletal

9.3.1 Overview

9.3.2 Musculoskeletal: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

9.4 Dermatology

9.4.1 Overview

9.4.2 Dermatology: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

9.5 Cardiology

9.5.1 Overview

9.5.2 Cardiology: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

9.6 Drug Discovery and Development

9.6.1 Overview

9.6.2 Drug Discovery and Development: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

9.7 Other Applications

9.7.1 Overview

9.7.2 Other Applications: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

## **10. GLOBAL STEM CELL THERAPY MARKET – REVENUE AND FORECAST TO 2028 – BY END USER**

10.1 Overview

10.2 Stem Cell Therapy Market Revenue Share, by End User 2021 & 2028 (%)

10.3 Academic & Research Institutes

10.3.1 Overview

10.3.2 Academic & Research Institutes: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

10.4 Hospitals & Specialty Clinics

10.4.1 Overview

10.4.2 Hospitals & Specialty Clinics: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

## **11. STEM CELL THERAPY MARKET – REVENUE AND FORECAST TO 2028 – GEOGRAPHIC ANALYSIS**

11.1 North America: Stem Cell Therapy Market

11.1.1 Overview

11.1.2 North America: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.3 North America: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.1.3.1 North America: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)



11.1.4 North America: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.1.5 North America: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.1.6 North America: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.1.6.1 US: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.6.1.1 Overview

11.1.6.1.2 US: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.6.1.3 US: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.1.6.1.3.1 US: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)

11.1.6.1.4 US: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.1.6.1.5 US: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.1.6.1.6 US: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.1.6.2 Canada: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.6.2.1 Overview

11.1.6.2.2 Canada: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.6.2.3 Canada: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.1.6.2.3.1 Canada: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)

11.1.6.2.4 Canada: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.1.6.2.5 Canada: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.1.6.2.6 Canada: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.1.6.3 Mexico: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.6.3.1 Overview

11.1.6.3.2 Mexico: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.1.6.3.3 Mexico: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.1.6.3.3.1 Mexico: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)

11.1.6.3.4 Mexico: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.1.6.3.5 Mexico: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.1.6.3.6 Mexico: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.2 Europe: Stem Cell Therapy Market

### 11.2.1 Overview

11.2.2 Europe: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.3 Europe: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.2.3.1 Europe: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)

11.2.4 Europe: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.2.5 Europe: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.2.6 Europe: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.2.7 Europe: Stem Cell Therapy Market, by Country, 2021 & 2028 (%)

11.2.7.1 Germany: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.1.1 Overview

11.2.7.1.2 Germany: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.1.3 Germany: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.2.7.1.3.1 Germany: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)

11.2.7.1.4 Germany: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.2.7.1.5 Germany: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.2.7.1.6 Germany: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.2.7.2 UK: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.2.1 Overview

11.2.7.2.2 UK: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.2.3 UK: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.2.7.2.3.1 UK: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)

11.2.7.2.4 UK: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.2.7.2.5 UK: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.2.7.2.6 UK: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.2.7.3 France: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.3.1 Overview

11.2.7.3.2 France: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.3.3 France: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.2.7.3.3.1 France: Stem Cell Therapy Market, by Adult Stem Cell Therapy,

2019–2028 (US\$ Million)

11.2.7.3.4 France: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.2.7.3.5 France: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.2.7.3.6 France: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.2.7.4 Italy: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.4.1 Overview

11.2.7.4.2 Italy: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.4.3 Italy: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.2.7.4.3.1 Italy: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)

11.2.7.4.4 Italy: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.2.7.4.5 Italy: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.2.7.4.6 Italy: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.2.7.5 Spain: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.5.1 Overview

11.2.7.5.2 Spain: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.5.3 Spain: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.2.7.5.3.1 Spain: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)

11.2.7.5.4 Spain: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.2.7.5.5 Spain: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.2.7.5.6 Spain: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

11.2.7.6 Rest of Europe: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.6.1 Overview

11.2.7.6.2 Rest of Europe: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.2.7.6.3 Rest of Europe: Stem Cell Therapy Market, by Type, 2019–2028 (US\$ Million)

11.2.7.6.3.1 Rest of Europe: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019–2028 (US\$ Million)

11.2.7.6.4 Rest of Europe: Stem Cell Therapy Market, by Treatment, 2019–2028 (US\$ Million)

11.2.7.6.5 Rest of Europe: Stem Cell Therapy Market, by Application, 2019–2028 (US\$ Million)

11.2.7.6.6 Rest of Europe: Stem Cell Therapy Market, by End User, 2019–2028 (US\$ Million)

Million)

11.3 Asia Pacific: Stem Cell Therapy Market

11.3.1 Overview

11.3.2 Asia Pacific: Stem Cell Therapy Market - Revenue and Forecast to 2028 (USD Million)

11.3.3 Asia Pacific: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.3.3.1 Asia Pacific: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.3.4 Asia Pacific: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.3.5 Asia Pacific: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.3.6 Asia Pacific: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.3.7 Asia Pacific: Stem Cell Therapy Market, by Country, 2021 & 2028 (%)

11.3.7.1 China: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.3.7.1.1 China: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.3.7.1.2 China: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.3.7.1.2.1 China: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.3.7.1.3 China: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.3.7.1.4 China: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.3.7.1.5 China: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.3.7.2 Japan: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.3.7.2.1 Japan: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.3.7.2.2 Japan: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.3.7.2.2.1 Japan: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.3.7.2.3 Japan: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.3.7.2.4 Japan: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.3.7.2.5 Japan: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.3.7.3 India: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.3.7.3.1 India: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.3.7.3.2 India: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.3.7.3.2.1 India: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

- 11.3.7.3.3 India: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)
- 11.3.7.3.4 India: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)
- 11.3.7.3.5 India: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)
- 11.3.7.4 South Korea: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)
  - 11.3.7.4.1 South Korea: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)
  - 11.3.7.4.2 South Korea: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)
    - 11.3.7.4.2.1 South Korea: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)
  - 11.3.7.4.3 South Korea: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)
  - 11.3.7.4.4 South Korea: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)
  - 11.3.7.4.5 South Korea: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)
- 11.3.7.5 Australia: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)
  - 11.3.7.5.1 Australia: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)
  - 11.3.7.5.2 Australia: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)
    - 11.3.7.5.2.1 Australia: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)
  - 11.3.7.5.3 Australia: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)
  - 11.3.7.5.4 Australia: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)
  - 11.3.7.5.5 Australia: Stem Cell Therapy Market, by End User, 2019-2028 (USD Million)
- 11.3.7.6 Rest of Asia Pacific: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)
  - 11.3.7.6.1 Rest of Asia Pacific: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)
  - 11.3.7.6.2 Rest of Asia Pacific: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)
    - 11.3.7.6.2.1 Rest of Asia Pacific: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)
  - 11.3.7.6.3 Rest of Asia Pacific: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)
  - 11.3.7.6.4 Rest of Asia Pacific: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)



11.3.7.6.5 Rest of Asia Pacific: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.4 Middle East & Africa: Stem Cell Therapy Market

11.4.1 Overview

11.4.2 Middle East & Africa: Stem Cell Therapy Market - Revenue and Forecast to 2028 (USD Million)

11.4.3 Middle East & Africa: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.4.3.1 Middle East & Africa: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.4.4 Middle East & Africa: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.4.5 Middle East & Africa: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.4.6 Middle East & Africa: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.4.7 Middle East & Africa: Stem Cell Therapy Market Share by Country – 2021 & 2028, (%)

11.4.7.1 Saudi Arabia: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.4.7.1.1 Saudi Arabia: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.4.7.1.2 Saudi Arabia: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.4.7.1.2.1 Saudi Arabia: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.4.7.1.3 Saudi Arabia: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.4.7.1.4 Saudi Arabia: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.4.7.1.5 Saudi Arabia: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.4.7.2 UAE: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.4.7.2.1 UAE: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.4.7.2.2 UAE: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.4.7.2.2.1 UAE: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.4.7.2.3 UAE: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.4.7.2.4 UAE: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.4.7.2.5 UAE: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.4.7.3 South Africa: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.4.7.3.1 South Africa: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.4.7.3.2 South Africa: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.4.7.3.2.1 South Africa: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.4.7.3.3 South Africa: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.4.7.3.4 South Africa: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.4.7.3.5 South Africa: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.4.7.4 Rest of Middle East and Africa: Stem Cell Therapy Market – Revenue and Forecast to 2028 (US\$ Million)

11.4.7.4.1 Rest of Middle East and Africa: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.4.7.4.2 Rest of Middle East and Africa: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.4.7.4.2.1 Rest of Middle East and Africa: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.4.7.4.3 Rest of Middle East and Africa: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.4.7.4.4 Rest of Middle East and Africa: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.4.7.4.5 Rest of Middle East and Africa: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.5 South and Central America: Stem Cell Therapy Market

11.5.1 Overview

11.5.2 South and Central America: Stem Cell Therapy Market - Revenue and Forecast to 2028 (US\$ Million)

11.5.3 South and Central America: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.5.3.1 South and Central America: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.5.4 South and Central America: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.5.5 South and Central America: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.5.6 South and Central America: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.5.7 South and Central America: Stem Cell Therapy Market, by Country, 2021 & 2028(%)

11.5.7.1 Brazil: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.5.7.1.1 Brazil: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.5.7.1.2 Brazil: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.5.7.1.2.1 Brazil: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.5.7.1.3 Brazil: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.5.7.1.4 Brazil: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.5.7.1.5 Brazil: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.5.7.2 Argentina: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.5.7.2.1 Argentina: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.5.7.2.2 Argentina: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.5.7.2.2.1 Argentina: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.5.7.2.3 Argentina: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)

11.5.7.2.4 Argentina: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.5.7.2.5 Argentina: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

11.5.7.3 Rest of South and Central America: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.5.7.3.1 Rest of South and Central America: Stem Cell Therapy Market – Revenue and Forecast to 2028 (USD Million)

11.5.7.3.2 Rest of South and Central America: Stem Cell Therapy Market, by Type, 2019-2028 (USD Million)

11.5.7.3.2.1 Rest of South and Central America: Stem Cell Therapy Market, by Adult Stem Cell Therapy, 2019-2028 (USD Million)

11.5.7.3.3 Rest of South and Central America: Stem Cell Therapy Market, by Treatment, 2019-2028 (USD Million)



11.5.7.3.4 Rest of South and Central America: Stem Cell Therapy Market, by Application, 2019-2028 (USD Million)

11.5.7.3.5 Rest of South and Central America: Stem Cell Therapy Market, by End User , 2019-2028 (USD Million)

## **12. IMPACT OF COVID-19 PANDEMIC ON STEM CELL THERAPY MARKET**

12.1 North America: Impact Assessment of COVID-19 Pandemic

12.2 Europe: Impact Assessment of COVID-19 Pandemic

12.3 Asia Pacific: Impact Assessment of COVID-19 Pandemic

12.4 Middle East & Africa: Impact Assessment of COVID-19 Pandemic

12.5 South & Central America: Impact Assessment of COVID-19 Pandemic

## **13. STEM CELL THERAPY MARKET–INDUSTRY LANDSCAPE**

13.1 Overview

13.2 Growth Strategies in the Stem Cell Therapy Market (%)

13.3 Organic Developments

13.3.1 Overview

13.4 Inorganic Developments

13.4.1 Overview

## **14. COMPANY PROFILES**

14.1 MEDIPOST

14.1.1 Key Facts

14.1.2 Business Description

14.1.3 Products and Services

14.1.4 Financial Overview

14.1.5 SWOT Analysis

14.1.6 Key Developments

14.2 RichSource

14.2.1 Key Facts

14.2.2 Business Description

14.2.3 Products and Services

14.2.4 Financial Overview

14.2.5 SWOT Analysis

14.2.6 Key Developments

14.3 BioTime, Inc.

- 14.3.1 Key Facts
- 14.3.2 Business Description
- 14.3.3 Products and Services
- 14.3.4 Financial Overview
- 14.3.5 SWOT Analysis
- 14.3.6 Key Developments
- 14.4 Mesoblast Limited
- 14.4.1 Key Facts
- 14.4.2 Business Description
- 14.4.3 Products and Services
- 14.4.4 Financial Overview
- 14.4.5 SWOT Analysis
- 14.4.6 Key Developments
- 14.5 Holostem Therapie Avanzate Srl
- 14.5.1 Key Facts
- 14.5.2 Business Description
- 14.5.3 Products and Services
- 14.5.4 Financial Overview
- 14.5.5 SWOT Analysis
- 14.5.6 Key Developments
- 14.6 U.S. Stem Cell, Inc.
- 14.6.1 Key Facts
- 14.6.2 Business Description
- 14.6.3 Products and Services
- 14.6.4 Financial Overview
- 14.6.5 SWOT Analysis
- 14.6.6 Key Developments
- 14.7 TiGenix NV
- 14.7.1 Key Facts
- 14.7.2 Business Description
- 14.7.3 Products and Services
- 14.7.4 Financial Overview
- 14.7.5 SWOT Analysis
- 14.7.6 Key Developments
- 14.8 AlloSource
- 14.8.1 Key Facts
- 14.8.2 Business Description
- 14.8.3 Products and Services
- 14.8.4 Financial Overview

- 14.8.5 SWOT Analysis
- 14.8.6 Key Developments
- 14.9 NuVasive Inc
  - 14.9.1 Key Facts
  - 14.9.2 Business Description
  - 14.9.3 Products and Services
  - 14.9.4 Financial Overview
  - 14.9.5 SWOT Analysis
  - 14.9.6 Key Developments
- 14.10 JCR Pharmaceuticals Co. Ltd.
  - 14.10.1 Key Facts
  - 14.10.2 Business Description
  - 14.10.3 Products and Services
  - 14.10.4 Financial Overview
  - 14.10.5 SWOT Analysis
  - 14.10.6 Key Developments

## **15. APPENDIX**

- 15.1 About The Insight Partners
- 15.2 Glossary of Terms

## List Of Tables

### LIST OF TABLES

Table 1. North America Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 2. North America Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 3. North America Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 4. North America Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 5. North America Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 6. US Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 7. US Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 8. US Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 9. US Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 10. US Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 11. Canada Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 12. Canada Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 13. Canada Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 14. Canada Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 15. Canada Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 16. Mexico Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 17. Mexico Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 18. Mexico Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 19. Mexico Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 20. Mexico Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 21. Europe Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 22. Europe Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 23. Europe Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 24. Europe Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 25. Europe Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 26. Germany Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 27. Germany Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 28. Germany Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 29. Germany Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 30. Germany Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 31. UK Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 32. UK Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 33. UK Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 34. UK Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 35. UK Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 36. France Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 37. France Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 38. France Stem Cell Therapy Market, by Treatment – Revenue and Forecast to

2028 (US\$ Million)

Table 39. France Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 40. France Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 41. Italy Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 42. Italy Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 43. Italy Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 44. Italy Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 45. Italy Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 46. Spain Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 47. Spain Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 48. Spain Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 49. Spain Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 50. Spain Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 51. Rest of Europe Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 52. Rest of Europe Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (US\$ Million)

Table 53. Rest of Europe Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (US\$ Million)

Table 54. Rest of Europe Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 55. Rest of Europe Stem Cell Therapy Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 56. Asia Pacific Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (USD Million)

Table 57. Asia Pacific Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (USD Million)

Table 58. Asia Pacific Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (USD Million)

Table 59. Asia Pacific Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (USD Million)

Table 60. Asia Pacific Stem Cell Therapy Market, by End-User – Revenue and Forecast to 2028 (USD Million)

Table 61. China Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (USD Million)

Table 62. China Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (USD Million)

Table 63. China Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (USD Million)

Table 64. China Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (USD Million)

Table 65. China Stem Cell Therapy Market, by End-User – Revenue and Forecast to 2028 (USD Million)

Table 66. Japan Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (USD Million)

Table 67. Japan Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (USD Million)

Table 68. Japan Stem Cell Therapy Market, by Treatment – Revenue and Forecast to 2028 (USD Million)

Table 69. Japan Stem Cell Therapy Market, by Application – Revenue and Forecast to 2028 (USD Million)

Table 70. Japan Stem Cell Therapy Market, by End-User – Revenue and Forecast to 2028 (USD Million)

Table 71. India Stem Cell Therapy Market, by Type – Revenue and Forecast to 2028 (USD Million)

Table 72. India Stem Cell Therapy Market, by Adult Stem Cell Therapy – Revenue and Forecast to 2028 (USD Mil

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