

Cell & Gene Therapy Drug Delivery Devices Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Subretinal Injection Cannula, Extension Tube, Intravenous Catheter, Sterile Insulin Syringe, Prefilled Syringe, Infusion Bags), By Commercialized Drugs (Luxturna, Kymriah, Yescarta, Zolgensma, Provenge, Strimvelis), By Route of Administration (Oral, Intravenous, Ocular, Transdermal, Others), By Method (In Vitro v/s Ex Vivo), By Region and Competition

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Abstracts

Global Cell & Gene Therapy Drug Delivery Devices market is expected to show robust growth in the forecast period, 2024-2028. This can be attributed to the growing use of cell and gene therapy for the treatment of various chronic diseases such as cancer. The increasing demand for drug delivery devices that are efficient in monitoring drug dosage during cell and gene therapies is expected to support market growth in the coming years.

Cell and Gene Therapy is a transformative industry that is emerging with efficient potential. Cell and Gene therapy includes the extraction of cells, proteins, or genetic material (DNA) from the Donor and altering them to provide highly specific and personalized therapy. The growing popularity of personalized medicine has significantly increased the demand for cell and gene therapies, thereby creating the demand for devices used to deliver these therapies.

The effective dosages help in maximizing the bioavailability of the drug at the target sites, making it convenient for the patients and thereby actively supporting the growth of devices used for delivering different therapies, including cell and gene therapies, in the coming years. Novel drug delivery systems like subdermal implants available in the market as variants such as rings and patches are anticipated to boost the global cell & gene therapy drug delivery devices market growth in the forecast period.

Increasing Prevalence of Chronic Diseases

The growing prevalence of cancer among the population at an alarming rate and the requirement for an effective treatment has led to the development of various cell and gene therapies. The development of cell and gene therapies has led to an increase in demand for different devices used to deliver them, thereby driving the growth of global cell and gene therapy drug delivery devices. According to the Globocan 2020, there are around 19,292,789 new cases of cancer reported among the population across the globe. Out of these, 10,065,305 new cancer cases were reported among males, and the most common type of cancer among them was Lung, Prostate, Colorectum, Stomach, and Liver cancer. Similarly, the number of new cancer cases reported in the female population was around 9,227,484, with breast cancer, colorectum cancer, lung cancer, cervix uteri, and thyroid cancer being the most prevalent ones.

A growing number of FDA approvals regarding Cell and Gene Therapies & Clinical Trials

With the first therapy approved in 2017, Cell therapies & Gene therapies are relatively new to the world for investments. According to the Cell and Gene Journal, out of 22 cell and gene therapies approved by the FDA, 14 are cord blood-based treatments. The remaining approvals include two gene therapies, seven cell therapies, and five modified cell therapies. Also, in total, cell & gene therapies account for just seven percent (7%) of the total 340 approved biologics. Also, of the over 50 total drugs approved by the FDA in 2021, only 2 were cell or gene therapies. Though it's a small amount of the total approved drugs in 2021, it reflects that the approved cell and gene therapies grew by 10%, which is a remarkable step in the development of medicine. Thus, the growing number of FDA approvals for the latest launches providing better drug delivery devices are gaining popularity among various companies for the development of devices used for delivering cell and gene therapies. This, in turn, is expected to bolster the growth of global cell & gene therapy drug delivery devices market in the coming years.

Increased Investment and Funding in the Cell and Gene Therapy Market

The Cell therapy & Gene therapy companies are getting an excellent amount & proportion of private and public investment. The assurance of novel cell and gene therapies which are targeting poorly treated diseases and chronic conditions has led to substantial capital flowing from private investments, initial public offerings, and corporates. With the growing private investment in life sciences, the rapid growth in investment in cell therapy and gene therapy is accountable. According to the Cell and Gene Journal, for gene therapy, the investment growth rate from 2010 to 2021 has risen to 59%, whereas for cell therapy, the investment rate has grown to 63%, which is accountable on a higher note and also anticipated for bringing a significant role in boosting the Global Cell & Gene Therapy Drug Delivery Devices Market growth during the forecast period.

Also, the various Government of several countries is aiding the process of increasing awareness about the devices among patients and doctors, thereby supporting the Global Cell & Gene Therapy Drug Delivery Devices market growth.

Market Segmentation

Global Cell & Gene Therapy Drug Delivery Devices Market can be segmented by type, commercialized drugs, route of administration, method, and region. Based on type, the market is fragmented into subretinal injection cannulas, extension tubes, intravenous catheters, sterile insulin syringes, prefilled syringe, and infusion bags. Based on the Commercialized Drugs, the market is further segmented into Luxturna, Kymriah, Yescarta, Zolgensma, Provenge, and Strimvelis. Depending on the Route of Administration, the market is further segmented into Oral, Intravenous, Ocular, Transdermal, and Others. Based on the type of method, the market can be segmented into In Vitro and Ex Vivo. Based on the regional segmentation, the market is distributed among North America, Europe, Asia- Pacific, South America, and Middle East and Africa.

Market Players

Becton, Dickinson, and Company, Novartis AG, Amgen Inc., Kite Pharma, Inc., Pfizer, Inc., Bausch & Lomb Incorporated, Bluebird bio, Inc., Castle Creek Biosciences, Inc (Fibrocell Technologies, Inc.), Dendreon Pharmaceuticals LLC., Helixmith Co., Ltd (ViroMed Co., Ltd), Orchard Therapeutics plc, Renova Therapeutics, Spark Therapeutics, Inc., uniQure N.V., Vericel Corporation, are some of the leading players

operating in the global cell & gene therapy drug delivery devices market.

Report Scope:

In this report, global cell & gene therapy drug delivery devices market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Cell & Gene Therapy Drug Delivery Devices Market, By Type:

Subretinal Injection Cannula

Extension Tube

Intravenous Catheter

Sterile Insulin Syringe

Prefilled Syringe

Infusion Bags

Cell & Gene Therapy Drug Delivery Devices Market, By Commercialized Drugs:

Luxturna

Kymriah

Yescarta

Zolgensma

Provenge

Strimvelis

Cell & Gene Therapy Drug Delivery Devices Market, By Route of Administration:

Oral

Intravenous

Ocular

Transdermal

Others

Cell & Gene Therapy Drug Delivery Devices Market, By Method:

In Vitro

Ex Vivo

Cell & Gene Therapy Drug Delivery Devices Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Asia-Pacific

China

Japan

India

South Korea

Australia

Middle East & Africa

South Africa

Saudi Arabia

UAE

South America

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in global Cell & Gene Therapy Drug Delivery Devices market.

Available Customizations:

With the given market data, TechSci 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. CLINICAL TRIAL ANALYSIS

- 5.1. Ongoing Clinical Trials
- 5.2. Completed Clinical Trials
- 5.3. Terminated Clinical Trials
- 5.4. Breakdown of Pipeline, By Development Phase
- 5.5. Breakdown of Pipeline, By Status
- 5.6. Breakdown of Pipeline, By Study Type
- 5.7. Breakdown of Pipeline, By Region

5.8. Clinical Trials Heat Map

6. GLOBAL CELL & GENE THERAPY DRUG DELIVERY DEVICES MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type (Subretinal Injection Cannula, Extension Tube, Intravenous Catheter, Sterile Insulin Syringe, Prefilled Syringe, Infusion Bags)

6.2.2. By Commercialized Drugs (Luxturna, Kymriah, Yescarta, Zolgensma, Provenge, Strimvelis)

6.2.3. By Route of Administration (Oral, Intravenous, Ocular, Transdermal, Others)

6.2.4. By Method (In Vitro v/s Ex Vivo)

6.2.5. By Company (2022)

6.2.6. By Region

6.3. Market Map

6.3.1. By Type

6.3.2. By Commercialized Drugs

6.3.3. By Route of Administration

6.3.4. By Method

6.3.5. By Region

7. ASIA-PACIFIC CELL & GENE THERAPY DRUG DELIVERY DEVICES MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type (Subretinal Injection Cannula, Extension Tube, Intravenous Catheter, Sterile Insulin Syringe, Prefilled Syringe, Infusion Bags)

7.2.2. By Commercialized Drugs (Luxturna, Kymriah, Yescarta, Zolgensma, Provenge, Strimvelis)

7.2.3. By Route of Administration (Oral, Intravenous, Ocular, Transdermal, Others)

7.2.4. By Method (In Vitro v/s Ex Vivo)

7.2.5. By Country

7.3. Asia-Pacific: Country Analysis

7.3.1. China Cell & Gene Therapy Drug Delivery Devices Market Outlook

7.3.1.1. Market Size & Forecast

- 7.3.1.1.1. By Value
- 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Commercialized Drugs
 - 7.3.1.2.3. By Route of Administration
 - 7.3.1.2.4. By Method
- 7.3.2. India Cell & Gene Therapy Drug Delivery Devices Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Commercialized Drugs
 - 7.3.2.2.3. By Route of Administration
 - 7.3.2.2.4. By Method
- 7.3.3. South Korea Cell & Gene Therapy Drug Delivery Devices Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Commercialized Drugs
 - 7.3.3.2.3. By Route of Administration
 - 7.3.3.2.4. By Method
- 7.3.4. Japan Cell & Gene Therapy Drug Delivery Devices Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Commercialized Drugs
 - 7.3.4.2.3. By Route of Administration
 - 7.3.4.2.4. By Method
- 7.3.5. Australia Cell & Gene Therapy Drug Delivery Devices Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Commercialized Drugs
 - 7.3.5.2.3. By Route of Administration
 - 7.3.5.2.4. By Method

8. EUROPE CELL & GENE THERAPY DRUG DELIVERY DEVICES MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Type (Subretinal Injection Cannula, Extension Tube, Intravenous Catheter, Sterile Insulin Syringe, Prefilled Syringe, Infusion Bags)

8.2.2. By Commercialized Drugs (Luxturna, Kymriah, Yescarta, Zolgensma, Provenge, Strimvelis)

8.2.3. By Route of Administration (Oral, Intravenous, Ocular, Transdermal, Others)

8.2.4. By Method (In Vitro v/s Ex Vivo)

8.2.5. By Country

8.3. Europe: Country Analysis

8.3.1. France Cell & Gene Therapy Drug Delivery Devices Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Type

8.3.1.2.2. By Commercialized Drugs

8.3.1.2.3. By Route of Administration

8.3.1.2.4. By Method

8.3.2. Germany Cell & Gene Therapy Drug Delivery Devices Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Type

8.3.2.2.2. By Commercialized Drugs

8.3.2.2.3. By Route of Administration

8.3.2.2.4. By Method

8.3.3. United Kingdom Cell & Gene Therapy Drug Delivery Devices Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Type

8.3.3.2.2. By Commercialized Drugs

8.3.3.2.3. By Route of Administration

8.3.3.2.4. By Method

8.3.4. Italy Cell & Gene Therapy Drug Delivery Devices Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Type

8.3.4.2.2. By Commercialized Drugs

8.3.4.2.3. By Route of Administration

8.3.4.2.4. By Method

8.3.5. Spain Cell & Gene Therapy Drug Delivery Devices Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Type

8.3.5.2.2. By Commercialized Drugs

8.3.5.2.3. By Route of Administration

8.3.5.2.4. By Method

9. NORTH AMERICA CELL & GENE THERAPY DRUG DELIVERY DEVICES MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Type (Subretinal Injection Cannula, Extension Tube, Intravenous Catheter, Sterile Insulin Syringe, Prefilled Syringe, Infusion Bags)

9.2.2. By Commercialized Drugs (Luxturna, Kymriah, Yescarta, Zolgensma, Provenge, Strimvelis)

9.2.3. By Route of Administration (Oral, Intravenous, Ocular, Transdermal, Others)

9.2.4. By Method (In Vitro v/s Ex Vivo)

9.2.5. By Country

9.3. North America: Country Analysis

9.3.1. United States Cell & Gene Therapy Drug Delivery Devices Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Type

9.3.1.2.2. By Commercialized Drugs

9.3.1.2.3. By Route of Administration

9.3.1.2.4. By Method

9.3.2. Mexico Cell & Gene Therapy Drug Delivery Devices Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Type

9.3.2.2.2. By Commercialized Drugs

9.3.2.2.3. By Route of Administration

9.3.2.2.4. By Method

9.3.3. Canada Cell & Gene Therapy Drug Delivery Devices Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Type

9.3.3.2.2. By Commercialized Drugs

9.3.3.2.3. By Route of Administration

9.3.3.2.4. By Method

10. SOUTH AMERICA CELL & GENE THERAPY DRUG DELIVERY DEVICES MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Type (Subretinal Injection Cannula, Extension Tube, Intravenous Catheter, Sterile Insulin Syringe, Prefilled Syringe, Infusion Bags)

10.2.2. By Commercialized Drugs (Luxturna, Kymriah, Yescarta, Zolgensma, Provenge, Strimvelis)

10.2.3. By Route of Administration (Oral, Intravenous, Ocular, Transdermal, Others)

10.2.4. By Method (In Vitro v/s Ex Vivo)

10.2.5. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Cell & Gene Therapy Drug Delivery Devices Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Type

10.3.1.2.2. By Commercialized Drugs

10.3.1.2.3. By Route of Administration

10.3.1.2.4. By Method

10.3.2. Argentina Cell & Gene Therapy Drug Delivery Devices Market Outlook

- 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Commercialized Drugs
 - 10.3.2.2.3. By Route of Administration
 - 10.3.2.2.4. By Method
- 10.3.3. Colombia Cell & Gene Therapy Drug Delivery Devices Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Commercialized Drugs
 - 10.3.3.2.3. By Route of Administration
 - 10.3.3.2.4. By Method

11. MIDDLE EAST AND AFRICA CELL & GENE THERAPY DRUG DELIVERY DEVICES MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Type (Subretinal Injection Cannula, Extension Tube, Intravenous Catheter, Sterile Insulin Syringe, Prefilled Syringe, Infusion Bags)
 - 11.2.2. By Commercialized Drugs (Luxturna, Kymriah, Yescarta, Zolgensma, Provenge, Strimvelis)
 - 11.2.3. By Route of Administration (Oral, Intravenous, Ocular, Transdermal, Others)
 - 11.2.4. By Method (In Vitro v/s Ex Vivo)
 - 11.2.5. By Country
- 11.3. MEA: Country Analysis
 - 11.3.1. South Africa Cell & Gene Therapy Drug Delivery Devices Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Type
 - 11.3.1.2.2. By Commercialized Drugs
 - 11.3.1.2.3. By Route of Administration
 - 11.3.1.2.4. By Method
 - 11.3.2. Saudi Arabia Cell & Gene Therapy Drug Delivery Devices Market Outlook

- 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
- 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Type
 - 11.3.2.2.2. By Commercialized Drugs
 - 11.3.2.2.3. By Route of Administration
 - 11.3.2.2.4. By Method
- 11.3.3. UAE Cell & Gene Therapy Drug Delivery Devices Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Type
 - 11.3.3.2.2. By Commercialized Drugs
 - 11.3.3.2.3. By Route of Administration
 - 11.3.3.2.4. By Method

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

- 13.1. Recent Developments
- 13.2. Mergers & Acquisitions
- 13.3. Product Launches

14. COMPETITIVE LANDSCAPE

- 14.1. Business Overview
- 14.2. Company Snapshot
- 14.3. Products & Services
- 14.4. Financials (As Reported)
- 14.5. Recent Developments
- 14.6. SWOT Analysis
 - 14.6.1. Becton, Dickinson, and Company
 - 14.6.2. Novartis AG
 - 14.6.3. Amgen Inc.
 - 14.6.4. Kite Pharma, Inc.

14.6.5. Pfizer, Inc.

14.6.6. Bausch & Lomb Incorporated

14.6.7. Bluebird bio, Inc.

14.6.8. Castle Creek Biosciences, Inc (Fibrocell Technologies, Inc.)

14.6.9. Dendreon Pharmaceuticals LLC.

14.6.10. Helixmith Co., Ltd (ViroMed Co., Ltd)

15. STRATEGIC RECOMMENDATIONS

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