

Therapeutic Vaccines Market Report by Type (Antigen Vaccines, Dendritic Cell Vaccine, DNA Vaccine, Tumor Cell Vaccines), Disease Type (Autoimmune Disease Vaccines, Addiction Vaccines, Neurological Disease Vaccine, Infectious Disease Vaccine, and Others), Technology (Autologous Vaccines, Allogeneic Vaccine), Distribution Channel (Hospital Pharmacies, Retail Pharmacies, Online Pharmacies), and Region 2024-2032

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Abstracts

The global therapeutic vaccines market size reached US\$ 31.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 71.4 Billion by 2032, exhibiting a growth rate (CAGR) of 9.5% during 2024-2032. The rising prevalence of diseases with limited treatment options, increasing preferences of individuals for minimally invasive surgeries (MIS), and the growing partnerships between pharmaceutical companies, research institutions, and academia are some of the major factors propelling the market.

Therapeutic vaccines, also known as treatment vaccines or immunotherapeutic vaccines, are a type of medical intervention designed to stimulate the immune system of patients to target and combat specific diseases. They have fewer side effects compared to traditional treatments like chemotherapy. They stimulate the immune system without causing extensive damage to healthy cells. They help reduce the likelihood of disease recurrence after initial treatment. They can be combined with other treatments, such as chemotherapy or targeted therapies, to create a synergistic effect. They aid in managing chronic infections like human immunodeficiency viruses (HIV) and hepatitis B by enhancing the immune response to control the viral load and minimize disease

progression.

The rising prevalence of diseases with limited treatment options, such as certain types of cancers and rare disorders, is catalyzing the demand for innovative therapeutic approaches like vaccines. Additionally, the increasing aging population aging population, which is highly susceptible to various chronic ailments is driving the need for novel treatment modalities like therapeutic vaccines. Apart from this, governments of various countries are offering supportive policies, grants, and funding for research and development (R&D) in the field of immunotherapy and vaccines. Furthermore, the rising preferences of individuals for non-invasive or minimally invasive treatment options are driving the demand for therapeutic vaccines. Moreover, partnerships between pharmaceutical companies, research institutions, and academia are accelerating the development and commercialization of therapeutic vaccines.

Therapeutic Vaccines Market Trends/Drivers:

Rising prevalence of chronic diseases

The rising prevalence of various chronic health conditions, such as cancer, autoimmune disorders, and infectious diseases represents one of the key factors propelling the market growth. Therapeutic vaccines offer a promising avenue by harnessing the immune system of individuals to recognize and target disease-associated antigens. Apart from this, rising preferences for personalized medicines is positively influencing the market. These vaccines hold the potential to target specific disorders and revolutionize disease management. Moreover, therapeutic vaccines can reduce the risk of disease recurrence, enhancing patient outcomes and quality of life.

Advancements in immunology and biotechnology

The rapid advancements in immunology and biotechnology are creating a positive market outlook. These scientific advancements are redefining our understanding of the immune system and its responses to diseases. Additionally, breakthroughs in immunology are unveiling the intricacies of immune checkpoints, cytokine signaling, and antigen presentation, providing insights that fuel the development of more effective therapeutic vaccines. Apart from this, biotechnology innovations, including mRNA-based vaccine platforms and gene editing techniques, are reimagining the landscape of vaccine design and production. Furthermore, the advent of nanoparticle-based vaccines offers opportunities for controlled antigen presentation, amplifying the immune reaction for heightened therapeutic efficacy.

Shift towards precision medicine

The shift towards precision medicine is positively influencing the therapeutic vaccines market. Precision medicine embodies a patient-centric approach, tailoring treatments to individual characteristics such as genetics, molecular profiles, and immunological markers. This approach acknowledges the uniqueness of the disease of each patient and seeks to optimize therapeutic outcomes. Apart from this, these vaccines address the inherent heterogeneity of diseases like cancer by targeting disease-specific antigens that are distinct to each patient. The identification of predictive biomarkers and the introduction of innovative biomarker-guided strategies enhance the likelihood of positive responses, as they identify patients who are most likely to benefit from these treatments.

Therapeutic Vaccines Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global therapeutic vaccines market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on type, disease type, technology and distribution channel.

Breakup by Type:

Antigen Vaccines

Dendritic Cell Vaccine

DNA Vaccine

Tumor Cell Vaccines

Tumor cell vaccines hold the largest market share

The report has provided a detailed breakup and analysis of the market based on the type. This includes antigen vaccines, dendritic cell vaccine, DNA vaccine, and tumor cell vaccines. According to the report, tumor cell vaccines represented the largest market segment as they are specifically designed to target cancer cells, offering a highly focused approach to treatment. This specificity minimizes damage to healthy cells, reducing adverse effects commonly associated with traditional therapies. Additionally, they stimulate the immune system to remember cancer cells, enabling the body to respond more effectively if the cancer recurs. This immune memory contributes to longer-lasting treatment outcomes. Apart from this, they can be used in combination with other treatments like checkpoint inhibitors or chemotherapy, creating a synergistic effect that enhances the overall treatment response. Furthermore, these vaccines help

reduce the likelihood of tumor resistance that can occur with single-target therapies.

Breakup by Disease Type:

- Autoimmune Disease Vaccines
- Addiction Vaccine
- Neurological Disease Vaccine
- Infectious Disease Vaccine
- Others

Autoimmune disease vaccines represent the largest market segment

A detailed breakup and analysis of the market based on the disease type has also been provided in the report. This includes autoimmune disease vaccines, addiction vaccines, neurological disease vaccine, infectious disease vaccine, and others. According to the report, autoimmune disease vaccines dominates the market due to the rising prevalence of autoimmune diseases, including rheumatoid arthritis, multiple sclerosis, and lupus across the globe. Additionally, these vaccines offer a potential alternative by stimulating immune tolerance, reducing the need for immunosuppression. Apart from this, they can be customized based on individual patient profiles, considering genetic and immunological factors. This aligns with the growing trend towards personalized medicine, enhancing treatment effectiveness. Apart from this, positive outcomes from clinical trials of autoimmune disease vaccines, coupled with advancements in immunology research, validate their potential to address unmet medical needs.

Breakup by Technology:

- Autologous Vaccines
- Allogeneic Vaccine

Autologous vaccines account for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on technology. This includes autologous vaccines and allogeneic vaccine. According to the report, autologous vaccines hold the largest market share as they are custom-made for each patient using their own cells, ensuring a personalized treatment strategy that aligns with the patient's unique disease profile and immune system. Apart from this, since autologous vaccines use the original cells of patients, there is a lower risk of immune rejection or adverse reactions compared to treatments that involve foreign

agents. Furthermore, they help reduce toxicity concerns associated with traditional treatments like chemotherapy by targeting disease cells while sparing healthy cells. Moreover, autologous vaccines are well-suited to address the genetic and molecular heterogeneity often found in diseases like cancer.

Breakup by Distribution Channel:

Hospital Pharmacies

Retail Pharmacies

Online Pharmacies

A detailed breakup and analysis of the market based on the distribution channel has also been provided in the report. This includes hospital pharmacies, retail pharmacies, and online pharmacies.

Hospital pharmacies operate within healthcare facilities, which ensures direct access to patients undergoing treatments. They facilitate immediate availability, expert guidance, and seamless integration with medical care and aid in dispensing and administering therapeutic vaccines, especially for critical conditions requiring close medical supervision.

Retail pharmacies are widespread and easily accessible to the general population. They offer convenience and a wide range of healthcare products, including therapeutic vaccines. Additionally, they cater to diverse patient needs, making therapeutic vaccines more accessible to the masses.

Online pharmacies offer a convenient platform to purchase therapeutic vaccines remotely. They provide a wide selection, price comparisons, and home delivery, which are particularly advantageous for patients with mobility limitations or those seeking privacy.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

North America exhibits a clear dominance, accounting for the largest therapeutic vaccines market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share since the region has a well-developed healthcare infrastructure, comprising modern hospitals, research institutions, and pharmaceutical companies, which accelerates research, development, and commercialization of therapeutic vaccines. Additionally, North America is a global hub for medical research and innovation, housing renowned universities, research centers, and biotechnology firms. Apart from this, regulatory agencies in North America, such as the U.S. Food and Drug Administration (FDA) and Health Canada, maintain rigorous standards for drug and vaccine approvals. Moreover, North America has a well-established clinical trial ecosystem, which facilitates the efficient testing and validation of therapeutic vaccines. The availability of diverse patient populations and expert medical professionals expedites the trial process.

Competitive Landscape:

Companies are investing in research to identify novel antigens and develop innovative vaccine platforms, which include exploring cutting-edge technologies like mRNA-based vaccines, viral vectors, and personalized vaccine approaches. Additionally, many vaccine developers are conducting rigorous clinical trials to evaluate the safety and efficacy of their products. Furthermore, they are working closely with regulatory agencies to obtain approvals for their therapeutic vaccines. This involves compiling comprehensive data from clinical trials to demonstrate safety, efficacy, and manufacturing quality. Moreover, many leading companies are investing in infrastructure and technologies to ensure consistent and efficient vaccine production.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Agenus Inc.
Argos Therapeutics Inc.
Bavarian Nordic A/S
Cel-Sci Corporation
CSL Limited
Emergent Biosolutions Inc.
GSK plc
Merck & Co. Inc.
Pfizer Inc.
Sanofi S.A.

Recent Developments:

In July 2023, Sanofi S.A. announced that it has received marketing authorization for Dupixent® (dupilumab) for the treatment of adults with moderate-to-severe atopic dermatitis.

In August 2023, the European Commission approved Pfizer Inc's ABRYOVO™ to help protect infants through maternal immunization and older adults from RSV.

In August 2023, Merck & Co. Inc. announced that LYNPARZA® (olaparib) Plus Abiraterone and Prednisolone are approved in Japan for the treatment of BRCA-mutated metastatic castration-resistant prostate cancer.

Key Questions Answered in This Report

1. What was the size of the global therapeutic vaccines market in 2023?

2. What is the expected growth rate of the global therapeutic vaccines market during 2024-2032?
3. What are the key factors driving the global therapeutic vaccines market?
4. What has been the impact of COVID-19 on the global therapeutic vaccines market?
5. What is the breakup of the global therapeutic vaccines market based on the type?
6. What is the breakup of the global therapeutic vaccines market based on the disease type?
7. What is the breakup of the global therapeutic vaccines market based on the technology?
8. What are the key regions in the global therapeutic vaccines market?
9. Who are the key players/companies in the global therapeutic vaccines market?

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