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Infectious Disease Therapeutics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2019-2029 Segmented By Disease Type (HIV, Hepatitis, Influenza, TB, Malaria, HPV, Others), By End Use (Hospitals, Clinics, Others), By Region, and By Competition

https://marketpublishers.com/r/I411AE1F31E9EN.html
Date: February 2024
Pages: 179
Price: US$ 4,900.00 (Single User License)
ID: I411AE1F31E9EN

Abstracts

Global Infectious Disease Therapeutics Market was valued at USD 67.04 billion in 2023 and is anticipated to project impressive growth in the forecast period with a CAGR of 7.00% through 2029. The Global Infectious Disease Therapeutics Market refers to the pharmaceutical and biotechnological industry's efforts to develop and market drugs and treatments for infectious diseases.

Key Market Drivers

Rising Disease Burden

The Global Infectious Disease Therapeutics Market has been on an upward trajectory in recent years, largely fueled by the escalating burden of infectious diseases worldwide. A persistent and increasing disease burden is not only a global health concern but also a driving force behind the growth of the infectious disease therapeutics market.

Infectious diseases, including HIV/AIDS, tuberculosis, malaria, and hepatitis, have plagued communities worldwide for decades. The high prevalence of these diseases in various regions necessitates the continuous development and availability of effective therapeutics. The demand for treatments that mitigate the impact of these common infections remains strong, creating a steady market.

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While we grapple with long-standing infectious diseases, new and re-emerging infections continue to challenge global health. The COVID-19 pandemic is a stark example of how rapidly a previously unknown virus can spread, leading to a surge in research and development activities to find treatments and vaccines. The response to such outbreaks drives investment in infectious disease therapeutics.

Antimicrobial resistance is a formidable problem that hampers the effectiveness of existing infectious disease treatments. Bacteria, viruses, and parasites are developing resistance to commonly used drugs, necessitating the development of novel therapeutics. The urgency to combat AMR drives investment in research for new antibiotics, antivirals, and antimicrobial strategies.

As the global population continues to grow and urbanize, the risk of infectious disease transmission increases. Crowded urban centers and close human-animal interactions can facilitate the spread of pathogens. These factors create a perpetual need for therapies that can treat and prevent infections.

Certain populations, such as those living in poverty, refugees, and marginalized communities, are more vulnerable to infectious diseases due to limited access to healthcare and preventive measures. The burden of infectious diseases in these populations remains high, necessitating focused efforts on therapeutics for equitable healthcare access.

Global travel and trade have made it easier for infectious diseases to cross borders and continents. Pathogens can quickly spread from one part of the world to another. This interconnectedness necessitates the availability of treatments and vaccines to mitigate the impact of infectious diseases.

Advancements in Biotechnology

In recent years, the Global Infectious Disease Therapeutics Market has witnessed a remarkable surge in growth, largely propelled by advances in biotechnology. Biotechnology innovations have revolutionized the way we understand, diagnose, and treat infectious diseases.

One of the most notable biotechnological breakthroughs in the field of infectious disease therapeutics is the development and application of monoclonal antibodies. These highly specific antibodies are designed to target and neutralize pathogens, including viruses

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and bacteria. Monoclonal antibodies have been at the forefront of treatments for infectious diseases like COVID-19 and have demonstrated remarkable efficacy.

The advent of mRNA vaccine technology, exemplified by the COVID-19 vaccines, has transformed the landscape of infectious disease prevention. This breakthrough allows for the rapid development and production of vaccines, making it possible to respond swiftly to emerging infectious diseases. The success of mRNA vaccines has opened up new opportunities for addressing a wide range of infectious diseases.

Biotechnology has enabled the development of gene-based therapies that hold great promise in treating infectious diseases. Techniques like gene editing and gene therapy can target and modify the genetic material of pathogens, rendering them less harmful or susceptible to treatment. These innovative therapies have the potential to revolutionize infectious disease treatment in the coming years.

Biotechnology has given rise to rapid diagnostic tools that enable swift and accurate identification of infectious agents. These diagnostics not only aid in the early detection of infections but also provide valuable information for tailoring treatment strategies. Fast and precise diagnostics are crucial in controlling the spread of infectious diseases.

Biotechnology has streamlined the drug discovery and development process for infectious diseases. High-throughput screening, computational modeling, and bioinformatics tools enable researchers to identify potential drug candidates more efficiently. This accelerated drug development process contributes to the growth of the infectious disease therapeutics market.

Vaccines and Immunotherapies

In the ever-evolving landscape of global healthcare, vaccines and immunotherapies have emerged as indispensable tools in the battle against infectious diseases. These two pillars of preventive and therapeutic interventions play a pivotal role in shaping the growth of the Global Infectious Disease Therapeutics Market.

Vaccines have been instrumental in reducing the global burden of infectious diseases. They not only prevent infections but also contribute to lowering the severity and fatality rates of diseases. As a cornerstone of public health, vaccines have a substantial impact on reducing healthcare costs and improving the overall quality of life, which, in turn, boosts the growth of the infectious disease therapeutics market.

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Vaccines are available for a wide range of infectious diseases, from childhood illnesses like measles and polio to seasonal flu and emerging threats like COVID-19. The broad spectrum of diseases addressed by vaccines ensures a steady demand for these preventive measures, stimulating research and development in this sector.

Immunotherapies harness the body's immune system to fight infectious diseases. They offer a targeted approach, enhancing the body's ability to identify and destroy pathogens. This precision medicine approach minimizes side effects and improves the overall effectiveness of treatment, encouraging investment and innovation in immunotherapies.

Monoclonal antibodies, a subset of immunotherapies, have garnered attention for their effectiveness in treating infectious diseases. These laboratory-engineered antibodies are designed to target specific pathogens, offering a powerful therapeutic option for patients. Monoclonal antibodies, as seen in the response to COVID-19, have the potential to revolutionize infectious disease treatment and boost the market.

Infectious diseases often develop resistance to conventional treatments, including antibiotics and antivirals. Immunotherapies, like monoclonal antibodies, provide an alternative approach that pathogens are less likely to adapt to, thus addressing the growing problem of drug resistance.

Initiatives by organizations like Gavi, the Vaccine Alliance, and the World Health Organization (WHO) aim to make vaccines and immunotherapies accessible to low- and middle-income countries. These efforts expand the reach of infectious disease therapeutics, ensuring equitable access and fostering market growth.

Pandemic Preparedness

Pandemics, such as the COVID-19 crisis, have a profound impact on public health, economies, and global stability. As a result, pandemic preparedness has become a paramount concern, and it is directly linked to the growth of the Global Infectious Disease Therapeutics Market.

The COVID-19 pandemic has underscored the importance of being prepared for infectious disease outbreaks. Governments, healthcare organizations, and pharmaceutical companies have recognized the need to develop a robust system for rapid response to emerging diseases, creating a sense of urgency and commitment to preparedness.

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Pandemic preparedness initiatives have resulted in a significant acceleration of research and development efforts in the field of infectious disease therapeutics. The need to respond swiftly to emerging infectious diseases has propelled investment in novel treatments, diagnostics, and vaccines.

Preparedness includes the development of vaccines, as vaccines are a vital tool in controlling the spread of infectious diseases. The COVID-19 vaccine development and distribution efforts serve as a case in point, demonstrating the pivotal role vaccines play in pandemic preparedness. These endeavors stimulate growth in the vaccine market within the infectious disease therapeutics sector.

The urgent need to identify and develop effective therapeutics for novel infectious diseases has led to innovations in drug discovery and testing. High-throughput screening, artificial intelligence, and streamlined clinical trials have all gained prominence in the quest for swift responses to emerging threats.

Pandemic preparedness has triggered regulatory agencies, such as the FDA in the United States and the EMA in Europe, to implement expedited approval processes for therapeutics, vaccines, and diagnostics. These streamlined pathways facilitate quicker market entry and promote growth.

Preparedness efforts often involve the stockpiling of essential therapeutics, vaccines, and medical supplies. This practice contributes to market growth and encourages manufacturers to enhance their supply chain capabilities to meet demand during emergencies.

Key Market Challenges

Antimicrobial Resistance (AMR)

One of the most critical challenges is antimicrobial resistance (AMR). Pathogens, including bacteria, viruses, and parasites, are developing resistance to existing treatments at an alarming rate. This escalating AMR crisis necessitates the development of new antibiotics and antivirals, which is often a slow and resource-intensive process.

Emerging and Re-emerging Infectious Diseases

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As witnessed during the COVID-19 pandemic, new and re-emerging infectious diseases pose significant challenges to the market. These diseases can emerge unpredictably, requiring rapid research, development, and distribution of therapeutics to address a novel pathogen.

Vaccine Hesitancy

Vaccines are a cornerstone of infectious disease prevention, but vaccine hesitancy remains a challenge. Misinformation, distrust in healthcare systems, and hesitancy among certain populations hinder vaccination efforts, potentially allowing infectious diseases to persist and spread.

Key Market Trends

Antimicrobial Resistance (AMR) Solutions

As antimicrobial resistance continues to pose a significant global threat, the market is likely to see a surge in research and development efforts for new antibiotics, antivirals, and treatments that can combat drug-resistant infections. Innovative approaches, including phage therapy, precision medicine, and combination therapies, will gain prominence.

Vaccine Development for Emerging Infectious Diseases

Vaccines will remain at the forefront of infectious disease prevention. The market will see a growing focus on the development of vaccines for emerging and re-emerging infectious diseases, alongside an emphasis on improving vaccine production and distribution capacity to ensure equitable access.

Gene-Based Therapies and mRNA Vaccines

The success of mRNA vaccines like those for COVID-19 has opened up new possibilities for the treatment and prevention of infectious diseases. mRNA and gene-based therapies will continue to gain traction as platforms for developing vaccines and treatments for various infections.

Segmental Insights

Disease Type Insights

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In 2023, the HIV sector dominated the market in terms of revenue. This was primarily due to several key factors, including the growing prevalence of HIV, increased funding for HIV patient support, the wider distribution of free HIV self-test kits in African nations, and global awareness campaigns. The World Health Organization (WHO) has recognized HIV as a significant global public health concern, with an ongoing worldwide transmission that has claimed 40.4 million lives.

In the same year, the hepatitis therapeutics sector secured the second-largest share within the top six infectious disease therapeutics markets. This can be attributed to the rising prevalence of hepatitis, a surge in clinical trials for new drug launches, and various initiatives to promote drug adoption. Furthermore, WHO's Global Health Sector Strategy on viral hepatitis aims to test and treat a significant portion of individuals suffering from HBV and HCV by 2030, which is expected to drive growth in this sector.

The HPV sector is projected to experience the highest CAGR during the forecast period. This growth can be attributed to the increasing prevalence of HPV and the affordability of drugs used to treat this infection. According to WHO, HPV is the most common sexually transmitted infection, affecting a large proportion of sexually active individuals at some point in their lives. Although there is no cure for HPV, its symptoms, such as genital warts, can be managed with various anti-infective drugs. In January 2023, India's Serum Institute of India introduced 'CERVAVAC,' the first domestically produced Quadrivalent Human Papillomavirus vaccine, in collaboration with the institute, DBT, BIRAC, and the Bill and Melinda Gates Foundation.

End Use Insights

In 2023, the hospital sector claimed the largest share of revenue. A significant driver of market growth is the increasing volume of emergency hospital visits related to infectious diseases. Hospitals are particularly attractive because they offer reimbursement options and services through insurance providers, creating favorable growth prospects for this segment. These facilities reduce the need for patients to seek care at multiple locations, thereby enhancing the value proposition of the hospital sector. According to the Centers for Disease Control and Prevention (CDC), the 2021–2022 influenza season witnessed 9 million illnesses, 4 million doctor visits, 10,000 hospitalizations, and 5,000 fatalities.

Meanwhile, the clinics segment is expected to experience the highest CAGR during the forecast period. This can be attributed to the growing demand for outpatient care, the availability of advanced diagnostic and therapeutic resources, and increased public

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awareness of preventive measures. Clinics offer a range of services for infectious disease patients, including screening, testing, vaccination, counseling, and treatment. They also provide access to specialized care for complex and rare infections like HIV/AIDS, tuberculosis, hepatitis, and COVID-19. Additionally, clinics actively participate in clinical trials and research endeavors aimed at evaluating the safety and effectiveness of new drugs and vaccines for infectious diseases, contributing to the growth of this sector.

Regional Insights

In 2023, North America emerged as the leading market for infectious disease therapeutics. This was primarily driven by the growing prevalence of such disorders and the favorable reimbursement landscape in the region. Additionally, the presence of numerous manufacturers in the United States and an increasing number of clinical trials aimed at developing new treatment drugs played a significant role in securing a substantial market share for North America. Key factors contributing to the market's growth include the rising rates of infectious disease diagnosis and treatment, coupled with increased funding initiatives to support the development of new drugs. Notably, the Centers for Disease Control and Prevention reported 41,917 deaths in the U.S. due to influenza and pneumonia in 2021.

Conversely, Asia Pacific is projected to exhibit the highest CAGR during the forecast period. This growth can be attributed to the region's high prevalence of infectious diseases such as HIV, malaria, and tuberculosis, along with an increasing incidence of these conditions. Moreover, there is a notable rise in expenditures dedicated to the prevention and diagnosis of infectious diseases in the region. Governments in various countries are increasingly focusing on infection prevention and allocating funds to promote the adoption of treatments for infectious diseases, further propelling market growth. Notably, in June 2023, INVEX Health announced the launch of India's first oral HIV self-test, the saliva-based Morcheck test, which checks for both HIV types 1 and 2.

It's worth noting that a significant proportion of individuals suffering from these infections reside in Africa. The WHO African Region shoulders a substantial burden of malaria globally, with 95% of cases and 96% of malaria-related deaths in 2021. Children under the age of 5 accounted for 80% of these fatalities. Various initiatives focusing on disease prevention are being implemented in the region, and government, private, and nonprofit organizations are actively involved in enhancing the management of these diseases. For instance, Novartis provides free medications to malaria patients in the African region.

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Key Market Players

Novartis AG

Gilead Sciences Inc

GSK PLC

Johnson & Johnson Innovative Medicine

F Hoffmann-La Roche AG

BioCryst Pharmaceuticals Inc

Merck & Co Inc

Boehringer Ingelheim International GmbH

Report Scope:

In this report, the Global Infectious Disease Therapeutics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Infectious Disease Therapeutics Market, By Disease Type:

HIV

Hepatitis

Influenza

TB

Malaria

HPV

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Others

Infectious Disease Therapeutics Market, By End Use:

Hospitals

Clinics

Others

Infectious Disease Therapeutics Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Spain

Asia-Pacific

China

Japan

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India

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Infectious Disease Therapeutics Market.

Available Customizations:

Global Infectious Disease Therapeutics market report with the given market data, Tech Sci 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).

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