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India Malaria Vaccine Market By Vaccine Type (Pre-Erythrocytic, Erythrocytic, Multi-antigen, Others), By Route of Administration (Intramuscular, Subcutaneous, Intradermal, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F

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Abstracts

India Malaria Vaccine Market was valued at USD 38.21 million in 2024 and is expected to reach USD 47.21 million by 2030 with a CAGR of 3.59% during the forecast period. The Rising awareness among people for early detection and treatments coupled with the rising number of people suffering from malaria are expected to augment the growth of the India malaria vaccine market. Malaria is caused by a parasite called Plasmodium, which is transmitted to humans through the bites of infected mosquitoes. Malaria is preventable and treatable, but the development of effective vaccines is essential to control and ultimately eliminate this disease. Growing incidences of malaria in the country is a major factor, which is surging the demand for effective malaria vaccines. These malaria vaccines are vaccines that are designed to prevent or reduce the severity of malaria, a disease caused by parasites that are transmitted to humans through the bites of infected mosquitoes. Furthermore, there are various other factors which are supporting the growth of India malaria vaccine market such as growing government initiatives, affordable vaccines, rising advancements in biotechnology, and others.

Key Market Drivers

Rise in Occurrences of Malaria

The high burden of malaria in India is one of the main drivers of the demand for malaria vaccines. Malaria remains a significant public health issue in the country, with millions of

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cases reported each year, particularly in rural and underprivileged areas. Despite significant efforts to control the disease through vector control, diagnosis, treatment, and health education, malaria remains a major cause of morbidity and mortality in India. Therefore, there is a surge in demand for the malaria vaccines in the country. The development of an effective malaria vaccine has the potential to significantly reduce the burden of malaria in India and other malaria-endemic countries. Thus, malaria vaccine would provide a highly effective tool for preventing malaria infection, particularly in high-risk populations, such as children under five and pregnant women. It would also reduce the number of cases of severe malaria and the associated morbidity and mortality. According to the World Health Organization (WHO), India accounted for 3% of the global malaria burden in 2019, with an estimated 247 million cases of malaria.

Moreover, the burden of malaria in India is particularly high in the states of Odisha, Chhattisgarh, Jharkhand, and the northeast region of the country. These areas are characterized by high rates of poverty, poor sanitation, and a lack of access to healthcare, which contribute to the persistence of malaria. Therefore, the rising prevalence of malaria is expected to bolster the growth of the India malaria vaccine market in the upcoming years.

Increasing Government Support

Increasing government support is one of the crucial factors for the growth of India's malaria vaccine market. The Indian government has recognized the importance of malaria prevention and control and has implemented several initiatives to address the high burden of malaria in the country. The government has also launched several awareness campaigns to promote the use of these malaria prevention and control measures. In addition to these initiatives, the Indian government has provided support for the development of malaria vaccines through various research and development programs. For instance, in 2022, the Ministry of Health and Family Welfare of India launched a campaign named Jan Abhiyaans with log bhaagidari (people’s participation) to enthuse and engage people and communities to ensure that their neighborhoods, premises, and homes for vector control and elimination.

Furthermore, the Indian government has also introduced policies to support the manufacturing of vaccines within the country. The government's support for malaria vaccine research, development, and manufacturing has helped to create a favorable environment for the growth of India's malaria vaccine market. The government's initiatives have helped to attract investment in malaria vaccine research and

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development, and the policies supporting the manufacturing of vaccines within the country have helped to create a competitive and vibrant vaccine manufacturing industry in India.

Key Market Challenges

Regulatory and Approval Challenges

One of the major challenges facing the India malaria vaccine market is the complex and time-consuming regulatory approval process. India has a large and diverse population with varying levels of malaria transmission, and the regulatory landscape must account for these factors when evaluating malaria vaccine candidates. The rigorous testing and approval process for vaccines, especially in the context of a disease like malaria, which has multiple strains and geographical variations, complicates the development timeline. Additionally, the lack of a streamlined and unified regulatory approach across states can further delay vaccine distribution. India also faces challenges related to public health infrastructure, which can affect the smooth execution of large-scale clinical trials, data collection, and post-marketing surveillance. With the demand for timely malaria vaccination programs, the delay in regulatory approvals can hinder the ability to address public health concerns effectively. Furthermore, variations in vaccine efficacy due to local conditions, such as resistance to certain strains of malaria, pose additional challenges for obtaining regulatory approval for vaccines that can be widely used across the country.

Distribution and Accessibility Issues

Another significant challenge facing the malaria vaccine market in India is the distribution and accessibility of the vaccine, especially in rural and remote regions. Despite India’s progress in healthcare, a large portion of its population still lives in areas where access to healthcare facilities is limited, making it difficult to implement widespread vaccination campaigns. The cold chain logistics required for storing and transporting vaccines, especially in regions with inadequate infrastructure, further exacerbates the issue. Moreover, the affordability of malaria vaccines is a critical concern, as many rural populations may not have the financial means to access vaccines, particularly in areas with high malaria burden. Government health initiatives and collaborations with international organizations like the World Health Organization (WHO) are crucial to overcoming these barriers, but challenges in funding, distribution networks, and local health system capacities still persist. Ensuring equitable access to malaria vaccines across all regions of India remains a complex task that requires

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overcoming both logistical and economic hurdles.

Key Market Trends

Growing Awareness About the Importance of Malaria Treatment

Growing awareness among people about the importance of malaria treatment is a significant factor that can contribute to the growth of the India malaria vaccine market. In recent years, there has been growing awareness among people about the importance of malaria prevention, diagnosis, and treatment. This growing awareness has been supported by government initiatives and public health campaigns aimed at educating people about the disease and its prevention and treatment. As more people become aware of the importance of malaria prevention and treatment, there is a greater demand for effective tools for malaria control, including vaccines. Also, the growing awareness among people about the importance of malaria treatment and prevention is also creating a favorable environment for investment in malaria vaccine research and development. Investors and stakeholders are increasingly recognizing the potential of the malaria vaccine market, and the growing demand for malaria vaccines is likely to drive investment in this area. Furthermore, the growing awareness about the importance of malaria treatment is also creating a demand for affordable and effective malaria vaccines. This demand is particularly significant in India, where access to healthcare is often limited in rural and underprivileged areas. Affordable and effective malaria vaccines can help to reduce the burden of malaria in these areas and improve access to healthcare for vulnerable populations.

Growing Research & Development Activities

Research and development (R&D) are a crucial factor that can significantly contribute to the growth of the India vaccine market. R&D plays a vital role in the development of vaccines, including malaria vaccines. In recent years, there has been a significant increase in R&D investment in India. The Indian government has implemented several initiatives to promote R&D in various sectors, including healthcare. For example, the Department of Science and Technology has established several programs to support R&D in biotechnology and healthcare. The increasing focus on R&D in India has created a favorable environment for the development of vaccines, including malaria vaccines. Several research institutions in India are working on the development of malaria vaccines, and the investment in R&D is likely to drive the growth of the India malaria vaccine market. Moreover, the availability of a skilled workforce and the presence of world-class research institutions in India have also contributed to the

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growth of the R&D sector. This has facilitated the development of innovative technologies and solutions, including vaccines. Moreover, researchers are working on various approaches to develop malaria vaccines, including subunit vaccines, whole parasite vaccines, and genetically attenuated parasite vaccines. Through this research, scientists can gain a better understanding of the parasite's biology and the immune responses required for protection, which can ultimately lead to the development of effective malaria vaccines. Therefore, the increasing research & development activities in the country is expected to support the growth of the India malaria vaccine market in the forthcoming years.

Segmental Insights

Route of Administration Insights

Based on the route of administration, the intramuscular category is currently dominating the India malaria vaccine market due to several key advantages it offers in terms of efficacy, ease of administration, and acceptance among healthcare professionals. Intramuscular injections allow for better absorption of vaccines compared to subcutaneous or oral routes, which is crucial for ensuring a robust immune response, especially for complex vaccines like those targeting malaria. In addition, the intramuscular route is familiar to healthcare providers across India, making it easier to implement at scale. IM injections are also widely used in existing vaccination programs, providing a sense of standardization that helps ensure smooth integration into national immunization efforts. As malaria vaccination campaigns continue to expand, the familiarity and simplicity of administering vaccines via the IM route are expected to play a pivotal role in encouraging adoption by healthcare professionals and the public. Furthermore, the consistent success of other vaccines delivered intramuscularly in India helps maintain trust in the safety and effectiveness of this administration method for malaria vaccines.

Regional Insights

Based on the region, East India was dominating in India Vaccine Market in 2024. East India, comprising states like West Bengal, Odisha, Bihar, and Assam, is experiencing a significant malaria burden, making it a key region for the malaria vaccine market. These states are known for having high transmission rates of malaria, with large populations living in areas prone to endemic transmission. The prevalence of malaria in these regions, particularly among vulnerable populations such as children and pregnant women, has made it a priority for both government and public health organizations to

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implement effective prevention strategies, including vaccination. The demand for malaria vaccines is therefore high in East India, where targeted interventions are necessary to control and reduce malaria incidence. The geographical factors and environmental conditions in these states, such as monsoons and high humidity, create ideal breeding grounds for malaria-carrying mosquitoes, exacerbating the disease burden and increasing the urgency of vaccination programs. Consequently, East India's substantial malaria cases have made it the dominant market for malaria vaccines in the country, driving efforts to prioritize vaccine distribution and ensure timely access.

Key Market Players

Gennova Biopharmaceuticals Ltd

Zydus Group

Serum Institute of India Private Limited

Bharat Biotech International Limited

Indian Immunologicals Limited, Inc.

Panacea Biotec

Mynvax

Cadila Pharmaceuticals

Biological E Limited

Sanofi Pasteurs Health

Report Scope:

In this report, India Malaria Vaccine Market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

India Malaria Vaccine Market, By Vaccine Type:

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Pre-Erythrocytic

Erythrocytic

Multi-antigen

Others

India Malaria Vaccine Market, By Route of Administration:

Intramuscular

Subcutaneous

Intradermal

Others

India Malaria Vaccine Market, By Region:

North India

South India

East India

West India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present India Malaria Vaccine 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:

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Company Information

Detailed analysis and profiling of additional market players (up to five).

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