

Tetanus Toxoid Vaccine Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The tetanus toxoid vaccine market is expected to register a CAGR of 4.8% during the forecast period (2022-2027).

The tetanus toxoid vaccine market is significantly impacted by COVID-19. According to the study published in the National Institutes of Health in January 2021, "Does tetanus vaccination contribute to reduced severity of the COVID-19 infection?" tetanus vaccination may help to reduce the severity of COVID-19 infection, but more research is needed to confirm or refute the effectiveness of the tetanus toxoid vaccine against COVID-19. Additionally, according to the article published in the Frontier Journal in October 2021, by Jennifer Monereo-Sanchez, vaccination against diphtheria or tetanus is linked to less severe COVID-19 symptoms. By stimulating the immune system, these vaccinations may protect against severe COVID-19 symptoms.

Tetanus, also known as lockjaw disease, is a non-communicable serious disease caused by a bacterial toxin that affects the nervous system, leading to painful muscle contractions, particularly the jaw and neck muscles. It is caused by *Clostridium tetani* (C. tetani) found in human and animal feces, soil, and street dust. The bacteria enter the body through wounds. Some of the symptoms include lockjaws (paralysis of the jaw), muscle stiffness, back pain, difficulties in breathing, and spasms. Most cases of tetanus occur in people who have never been vaccinated or in adults who have not kept up with their 10-year booster shots. There are different vaccines that include protection against tetanus are DTaP vaccine, DT vaccine, Tdap vaccine, and Td vaccine.

According to the Center For Diseases and Control Prevention in 2021, between 500-600 cases (approximately 0.4 cases per 100,000 population) were reported per year in the United States. As the number of cases has increased in recent years, the market is expected to grow in the coming years.

Rising cases of tetanus and diphtheria, new products under the clinical trials, and increasing government initiatives regarding

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vaccination and immunization are the key driving factors of the tetanus toxoid vaccine market. For instance, according to the Clinicaltrials.gov in 2020, title "Study of Tetanus Toxoid, Reduced Diphtheria Toxoid, and Acellular Pertussis Vaccine Adsorbed in Healthy Subjects" is under the phase II trials.

Thus, all aforementioned factor such as rising number of cases of tetanus and diphtheria and rising in number of trials boost the market.

Tetanus Toxoid Vaccine Market Trends

Diphtheria, Tetanus, and Pertussis (DTaP) Vaccine Segment is Expected to Hold a Major Market Share in the Tetanus Toxoid Vaccine Market

Diphtheria, tetanus, and pertussis (DTaP) vaccine segment holds a significant market share in the tetanus toxoid vaccine market. It is anticipated to show a similar trend over the forecast period due to the growing government initiatives to eradicate these diseases.

DTaP is a vaccine that helps in developing immunity against three deadly diseases caused by diphtheria, tetanus, and whooping cough (pertussis) in children younger than seven years old.

According to the World Health Organization (WHO) Report in 2022, the total number of Diphtheria cases reported in India in 2019 was 9,622, compared to 8,788 in 2018. Similarly, the total number of tetanus is 7,071 compared to the 7,000 cases in 2018.

According to, the World Health Organization 2021, As of November 11, 2020, five countries in the Region of the Americas had reported a total of 56 confirmed cases of diphtheria, with 16 deaths: Brazil (2 confirmed cases), the Dominican Republic (3 confirmed cases, including 2 deaths), Haiti (42 confirmed cases, including 11 deaths), Peru (4 confirmed cases, including one death), and the Bolivarian Republic of Venezuela (4 confirmed cases, including one death) (5 confirmed cases, including 2 deaths). Thus, rising the prevalence diphtheria rise in diphtheria, tetanus, and pertussis (DTaP) vaccine thereby boost the segment.

Low costs of the vaccine, increasing cases of tetanus, and increasing availability in low resource economies like Africa are the key driving factors in the diphtheria, tetanus, and pertussis (DTaP) vaccine segment.

North America is Expected to Hold a Significant Share in the Market during the Forecast Period

North America is expected to hold a major market share in the global tetanus toxoid vaccine market due to the increasing cases of tetanus and diphtheria and higher cost, high coverage, and adoption in this region. According to the World Health Organization report in May 2019, in the 56 probable cases reported in 2019, 6 cases and 1 death were confirmed by the laboratory. The case-fatality rate among cases confirmed by laboratory or an epidemiological link was 23% in 2015, 39% in 2016, 8% in 2017, 13% in 2018, and 17% in 2019.

Furthermore, as per the same source, the age group of 6 to 14-year-olds has the highest incidence rate among confirmed cases in 2019, followed by 1 to 5-year-olds. A 5-year-old child died as a result of the fatal case. In 2019, the communities of Acul du Nord (3.58 cases per 100,000 population) in the Nord Department and Tabarre (3.07 cases per 100,000 population) in the Ouest Department reported the highest cumulative incidence rate of probable cases.

All tetanus-related deaths occurred among patients greater than 55 years of age. Furthermore, increasing focus to control the incidence and presence of well-established healthcare infrastructure is also fueling the growth of the overall regional market to a large extent.

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Thus, all aforementioned factor expected boost the tetanus toxoid vaccine market in the North America region.

Tetanus Toxoid Vaccine Market Competitor Analysis

The tetanus toxoid vaccine market is fragmented, competitive, and consists of several major players. Some of the prominent players that are currently dominating the market are Merck & Co. Inc., GlaxoSmithKline PLC, Sanofi (Sanofi Pasteur Inc.), Pfizer Inc., Bharat Biotech, Astellas Pharma Inc., Panacea Biotec Ltd, BB - NCIPD Ltd, PT Bio Farma, and Biological E Limited.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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