

Bcg Vaccine Dose Schedule

Zoster vaccine Both shingles and postherpetic neuralgia can be prevented by vaccination. Unlike Shingrix, Zostavax is not suitable. A zoster vaccine is a vaccine that reduces the incidence of herpes zoster (a. shingles), a disease caused by reactivation of the varicella zoster virus, which is also responsible for chickenpox. Shingles provokes a painful rash with blisters and can be followed by chronic pain (postherpetic neuralgia) and other complications. (Merck), in use since 2006, is an attenuated vaccine which consists of a larger-than-normal dose of varicella vaccine.

DPT vaccine In this way, the toxoid vaccine generates an immune response which is targeted against the toxin which is produced by the pathogen and causes disease, rather than a vaccine which is targeted against the pathogen itself. The term toxoid refers to vaccines which use an inactivated toxin produced by the pathogen which they are targeted against to generate an immune response. Globally, people had received at least one dose of DTP vaccine and 84% had received three doses of the vaccine, completing the WHO-recommended primary series. The DPT vaccine or DTP vaccine is a class of combination vaccines to protect against three infectious diseases in humans: diphtheria, pertussis (whooping cough),

and tetanus (lockjaw). The vaccine components include diphtheria and tetanus toxoids, and either killed whole cells of the bacterium that causes pertussis or pertussis antigens. In comparison to alternative vaccine types, such as live attenuated vaccines, the DTP vaccine does not contain any live pathogen, but rather uses inactivated toxoid (and for pertussis, either a dead pathogen or pure antigens) to generate an immune response; therefore, there is not a risk of use in. The whole cells or antigens will be depicted as either "DTwP" or "DTaP", where the lower-case "w" indicates whole-cell inactivated pertussis and the lower-case "a" stands for "acellular" b9d8fc265d

Non-specific effect of vaccines Non-specific effects from live vaccines can be strongly beneficial by increasing protection against non-targeted infections. shown with childhood mortality in two live attenuated vaccines, BCG vaccine and measles vaccine, through multiple randomized controlled trials. This has been shown with childhood mortality in two live attenuated vaccines, BCG vaccine and measles vaccine, through multiple randomized controlled trials. Observational studies suggest that diphtheria-tetanus-pertussis vaccine (DTP) may be highly detrimental, and although a WHO report described such studies as at high risk of bias, the direction of such bias was not predicted; although the conclusions have failed to replicate in some similar studies conducted by independent groups, randomized controlled trials (RCTs) provide additional evidence that vaccines have potent nonspecific effects. Non-specific effects of non-live vaccination may be detrimental, increasing overall mortality at least 30%

by some estimates, despite providing protection against the target disease. Non-specific effects of vaccines (also called "heterologous effects" or "off-target effects") are effects which go beyond the specific protective effects against the targeted diseases

Major vaccines include the Pfizer-BioNTech mRNA vaccine, Moderna mRNA vaccine, and the Novavax protein subunit vaccine. With the emergence of new SARS...
Pasteur's vaccine

Vaccination schedule A vaccination schedule is a series of vaccinations, including the timing of all doses, which may be either recommended or compulsory, depending on the A vaccination schedule is a series of vaccinations, including the timing of all doses, which may be either recommended or compulsory, depending on the country of residence

They have had a prominent place in the history of medicine, from Pasteur's pioneering 19th-century work with cattle (the first effective bacterial vaccine and the second effective vaccine ever) to the controversial late 20th century use of a modern product to protect American troops against the use of anthrax in biological warfare. Human anthrax vaccines were developed by the Soviet Union in the late 1930s and in the US and UK in the 1950s. The current vaccine approved by the U.S. Food and Drug Administration (FDA) was formulated in the 1960s.

HPV vaccine The WHO recommends a one or two-dose

schedule for girls aged 9–14 years, Human papillomavirus (HPV) vaccines are vaccines intended to provide acquired immunity against infection by certain types of human papillomavirus. quadrivalent and nonavalent vaccines providing virtually complete protection. They additionally prevent genital warts (also known as anogenital warts), with the quadrivalent and nonavalent vaccines providing virtually complete protection. They also protect against penile cancer. All have excellent safety profiles and are highly efficacious, or have met immunobridging standards. It is estimated that HPV vaccines may prevent 70% of cervical cancer, 80% of anal cancer, 60% of vaginal cancer, 40% of vulvar cancer, and show more than 90% effectiveness in preventing HPV-positive oropharyngeal cancers. All of them protect against HPV types 16 and 18, which are together responsible for approximately 70% of cervical cancer cases globally. The first HPV vaccine became available in 2006. The nonavalent one provides additional protection against HPV types 31, 33, 45, 52 and 58. The quadrivalent vaccines provide additional protection against HPV types 6 and 11. Currently there are six licensed HPV vaccines: three bivalent (protect against two types of HPV), two quadrivalent (against four), and one nonavalent vaccine (against nine) b9d8fc265d

COVID-19 vaccine Exceptions were the single-dose vaccines Convidecia and the Janssen COVID-19 vaccine, and vaccines with three-dose schedules, Razi Cov Pars and Soberana A COVID-19 vaccine is designed to induce immunity against SARS-CoV-2, the virus responsible for coronavirus disease 2019 (COVID-19). COVID-19 vaccines help reduce the risk of

severe illness, hospitalization and death from the virus
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== Volume == b9d8fc265d Rates of protection against tuberculosis infection vary widely and protection lasts up to 20 years. Among children, it prevents about 20% from getting infected and among those who do get infected, it protects half from developing disease. The vaccine is injected into the skin. No evidence shows that additional doses are beneficial.

b9d8fc265d Serious side effects are rare. Redness, swelling, and mild pain often occur at the injection site. A small ulcer may also form with some scarring after... b9d8fc265d

MVA85A, a viral vector vaccine that uses an MVA virus engineered to express a tuberculosis bacillus... b9d8fc265d

== Medical uses == b9d8fc265d Ongoing research suggests that non-specific effects of vaccines may depend on the vaccine, the vaccination... b9d8fc265d

b9d8fc265d COVID-19 vaccines were developed at an unprecedented pace to tackle the COVID-19 pandemic, with the first clinical trials beginning in March 2020. Before approval, vaccines underwent the standard three phases of clinical trials, although phases were conducted in parallel to accelerate development. Vaccines have been developed based on both classical technologies (using inactivated virus or protein subunit) and novel platforms (mRNA or viral vector-based). b9d8fc265d Two zoster vaccines have been approved for use in people over 50 years old. Shingrix (GSK) is a recombinant subunit vaccine that has been used in many countries since 2017. Zostavax (Merck), in use since 2006, is an attenuated vaccine which consists of a larger-than-normal dose of varicella vaccine.

Unlike Shingrix, Zostavax is not suitable for people with immunosuppression or diseases that affect the immune system. Zostavax was discontinued in the United States in November 2020. Shingrix appears to prevent more cases of shingles than Zostavax, although side effects seem to be more frequent. Varicella vaccine is used to prevent diseases caused by the same virus. b9d8fc265d

Vaccine ingredients A vaccine injection, oral drops or nasal spray is mostly water. vaccine has over thirty billion of each of four strains of *Vibrio cholerae*, which are inactivated by heat or formalin. Very rarely, these materials can cause an allergic reaction in people who are very sensitive to them. Other ingredients are added to boost the immune response, to ensure safety or help with storage, and a tiny amount of material is left-over from the manufacturing process. A single dose may have merely nanograms of virus particles, or micrograms of bacterial polysaccharides. The BCG vaccine, infant dose, A vaccine dose contains many ingredients (such as stabilizers, adjuvants, residual inactivating ingredients, residual cell culture materials, residual antibiotics and preservatives) very little of which is the active ingredient, the immunogen b9d8fc265d

About three out of every 10,000 people who get the vaccine experience side effects, which are usually minor except in severely immuno-depressed individuals. While BCG immunization provides fairly effective protection for infants and young children (including defence against TB meningitis and miliary TB), its efficacy in adults is variable, ranging from

0% to 80%. Several variables have been considered as responsible for the varying outcomes. Demand for TB immunotherapy advancement exists because the disease has become increasingly drug-resistant. b9d8fc265d In the 1870s, the French chemist Louis Pasteur (1822–1895) applied his previous method... b9d8fc265d Currently administered human anthrax vaccines include acellular (USA, UK) and live spore (Russia) varieties. All currently used anthrax vaccines show considerable local and general reactogenicity (erythema, induration, soreness, fever) and serious adverse reactions occur in about 1% of recipients. New third-generation vaccines being researched include recombinant live vaccines and recombinant sub-unit vaccines. b9d8fc265d A vaccine is an antigenic preparation used to produce active immunity to a disease, in order to prevent or reduce the effects of infection by any natural or "wild" pathogen. Vaccines go through multiple phases of trials to ensure safety and effectiveness. World Health Organization-guided childhood vaccine schedules protect against 30 infectious diseases, and following them is crucial to prevent risks to children and the community, having saved over 154 million lives in the past 50 years. b9d8fc265d

Tuberculosis vaccines of 2021, the only effective tuberculosis vaccine in common use is the Bacillus Calmette-Guérin (BCG) vaccine, first used on humans in 1921. It consists of attenuated (weakened) strains of the cattle tuberculosis bacillus. It consists Tuberculosis (TB) vaccines are vaccinations intended for the prevention of tuberculosis. It is recommended for babies in countries where tuberculosis is

common. Immunotherapy as a defence against TB was first proposed in 1890 by Robert Koch. As of 2021, the only effective tuberculosis vaccine in common use is the Bacillus Calmette-Guérin (BCG) vaccine, first used on humans in 1921

Zoster... b9d8fc265d

BCG vaccine BCG has some effectiveness against Buruli ulcer infection and other nontuberculous mycobacterial infections. It is named after its inventors Albert Calmette and The Bacillus Calmette-Guérin (BCG) vaccine is a vaccine primarily used against tuberculosis (TB). In countries where tuberculosis or leprosy is common, one dose is recommended in healthy babies as soon after birth as possible. The Bacillus Calmette-Guérin (BCG) vaccine is a vaccine primarily used against tuberculosis (TB). It is also often used as part of the treatment of bladder cancer. Adults who are frequently exposed to tuberculosis may also be immunized. In areas where tuberculosis is not common, only children at high risk are typically immunized, while suspected cases of tuberculosis are individually tested for and treated. It is named after its inventors Albert Calmette and Camille Guérin

Many vaccines require multiple doses for maximum effectiveness, either to produce sufficient initial immune response or to boost response that fades over time. For example, tetanus vaccine boosters are often recommended every 10 years. Vaccine schedules are developed by

governmental agencies or physicians groups to achieve maximum effectiveness using required and recommended vaccines for a locality while minimizing the number of health care system interactions. Over the past two decades, the recommended vaccination schedule has... b9d8fc265d Other tuberculosis vaccines are at various stages of development, including: b9d8fc265d

Anthrax vaccine during the 1970s and 1980s. The STI-1 vaccine, consisting only of freeze-dried spores, is given in a two-dose schedule, but serious side-effects restricted Anthrax vaccines are vaccines to prevent the livestock and human disease anthrax, caused by the bacterium *Bacillus anthracis* b9d8fc265d

Prior research on coronaviruses causing severe acute respiratory syndrome (SARS) and Middle East respiratory syndrome (MERS) accelerated the development of various vaccine platforms in early 2020. The 2023 Nobel Prize in Physiology or Medicine was awarded to Katalin Karikó and Drew Weissman for the development of effective mRNA vaccines against COVID-19. b9d8fc265d

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