

PROS AND CONS OF COVID VACCINATION

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ABSTRACT: Covid-19 vaccine was developed by using science which has been in the books from the old ages. Vaccine for Covid-19 has been tested by many drug testing authorities in the world. When we are vaccinated, our body is much ready to shield off against the viruses by activating the human immunological system strong and effective against the covid-19. Vaccines are the safe way to improve your immune system, it teaches our body to fight against the threat. The other main reason of vaccination is to break the chain of spread. In not more common side effect reported for some vaccines against covid-19 have included such as anaphylaxis it is known as severe allergic reaction, this reaction is extremely rare where have some more common side effect include pain at injection site, fever, fatigue, headache, muscle pain, chills and diarrhea. The chances of any of these side effects some vaccines of covid-19 making up people sick with covid-19 virus causing fever. Even though has a some side effect vaccines are safe and it help protect against covid-19

Keywords: covid-19, vaccine, advantage, effect, disadvantage

INTRODUCTION

COVID – 19 was identified in Wuhan city, China WHO informed the cases of pneumonia of unknown causes on 31 December 2019, On 7 January 2020 it was named “2019- n COV” temporarily Corona viruses belong to a large family of viruses which has not been identified in human previously, they causes the disease ranging from the wide ranges from the common running nose to more severe illness which may cause death to human^[1]. The work for the development of vaccine.

In olden days, vaccines which have been developed through a series of consecutives steps that can take years and years for vaccine development On 24 June 2020 ,Cansino vaccine was approved by China, vaccines for high risk occupations for emergency uses such as Military^[2]. On 11 August 2020, Sputnik V Vaccine was approved by Russia, vaccine for emergency uses^[3] On 20 November 2020, mRNA vaccine BNT162b2 developed by Pfizer- BioNTech partnership requested emergency use authorization to U.S food and drug administration^{[4][5]}. On December 2 2020, approval for the [Pfizer–BioNTech vaccine](#), the United Kingdom’s Medicines (MHRA) gave temporary regulatory^{[6][7]}.

Sinopharm BIBP vaccine got the vaccine marketing authorization by the Bahrain and The United Arab Emirates^[8]

^[9]. On 31 March 2021, first COVID- 19 vaccine for animals named Carnivac -COV was announced by Russian government ^[10]. India initially approved the Covishieldmanufactured under license by [Serum Institute ofIndiaOxford–AstraZeneca vaccine](#) under the trade name Covishield and a vaccine developed locally by [Bharat Biotech Coaxing](#). They have since been joined by the [Sputnik V](#) which has been manufactured started in September under license by [Dr. Reddy's Laboratories](#), with additional production from Serum Institute of India being^{[11][12]}, [Moderna vaccines](#), locally developed a vaccine by [Zyqus Cadila\(Johnson & Johnson vaccine](#) and [ZyCoV-D](#)) and other vaccine candidates undergoing local clinical trials^{[13][14]}. Composition of viruses consists of Nucleic acid which is a positive stranded RNA . The structural Protein of Corona virus included Spike Protein (S), Envelope Protein (E), Membrane Protein (M) and Nucleo Capsid Phosphoprotein ^[15]. COVID – 19 vaccine consists of some parts of corona virus that are injected into the human body in the inactivated or some portion of viruses to teach the immune system and recognize the virus and fight against the Corona virus they have many advantage such our immune system will be alert to fight against the virus as it have

attacked the 50% of its COVID – 19 vaccines have many advantages even some disadvantages in human body^[16].



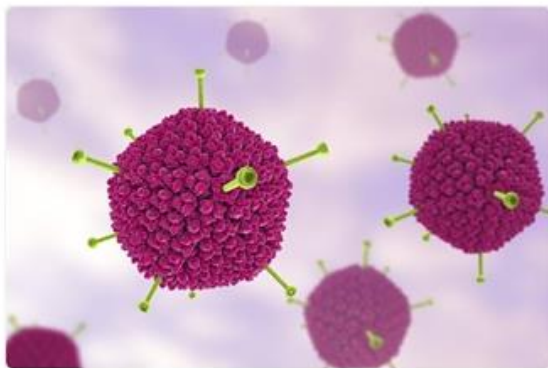
COVID - 19 VIRUS

COMPOSITION OF COVID – 19 VACCINES

COVID- 19 vaccine is the composition includes inactivated Adenovirus , Aluminum hydroxide gel , L- Histamine, L- Histidine Hydrochloride Monohydrate , Magnesium Chloride Hex hydride, Polysorbate 80 , Ethanol , Sucrose ,Sodium Chloride and Disodium Edetatedihydrate (EDTA) COVAXIN vaccine of COVID – 19 includes inactivated corona virus , Aluminum Hydroxide Gel, TLR 7/8 against , 2- Phenoxyethanol and Phosphate Buffered Saline [NKAI]^[17].

INACTIVATED ADENO

Adenoviruses are the excellent vectors for mammalian host, delivering target Antigens which are capable to induce both Innate and Adaptive immune responses^[18].



INACTIVATED ADENOVIRUSES

ALUMINIUM HYDROXIDE GEL acts as the antacid. Which is used to treat stomach upset, heartburn and acid indigestion? It is used for quick lowering stomach^[19].

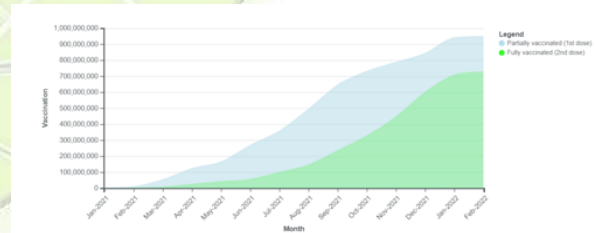
SUCROSE To keep other ingredients stable Sucrose (sugar) has been added to the vaccine, particularly as it’s stored at low temperature^[20].

BUFFER consists of Magnesium Chloride Hex hydride, Ethanol, Sodium Chloride and Disodium Edetatedihydrate (EDTA) which are used to maintain the PH of the vaccine^[20].

HISTIDINE it is the building block of our body (AMINO ACID) .Histamine in medicine used to trat for Metabolic Syndrome , Cholera infections leading to diarrhea , Rheumatoid Arthritis , Allergic Disease , by Kidney failure caused Ulcers and Anemia^[21].

SURVEY OF VACCINATION IN INDIA

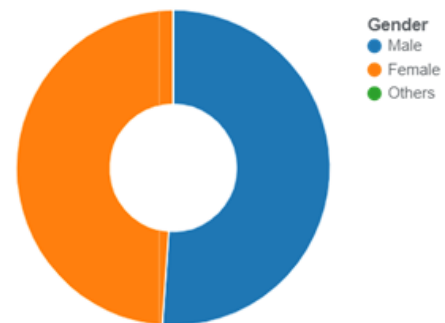
In recent days , people understood the importance of vaccine and started vaccination in India. Many people have partially vaccinated by getting first dosage, vaccination has three dosages first dose, second dosage and Booster dosage in recent day’s first and second dosage has been become mandatory. Peoples were continuously vaccinated with the help of medicinal advisors. The continuous increase in vaccination disturbs the continuous chain spread of COVID – 19 report of vaccination across the country on date of



MONTHLY REPORT OF VACCINATION IN INDIA

February 9, 2022^[22] ^[23].

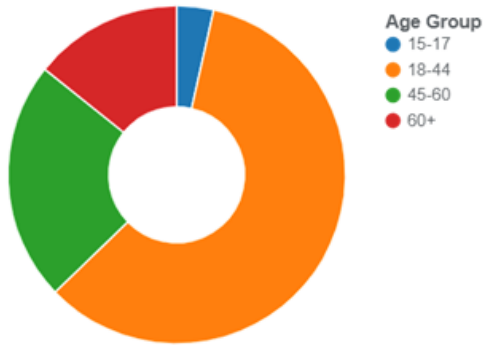
VACCINATION REPORT ON GENDER BASIS



Gender based vaccination in India on February 9, 2022^[22] ^[23].

Gender	Vaccination
Male	86,34,39,874
Female	82,51,19,187
Others	4,04,978

VACCINATION REPORT BASED ON AGE GROUP



Age group based Vaccinations report in India on February 9, 2022^[22] ^[23].

Age Group	Vaccination
15-17	5,99,63,874
18-44	1,01,00,90,652
45-60	39,08,29,364
60+	39,08,29,364

ADVANTAGES OF COVID-19 VACCINATION

COVID – 19 consists of some parts of corona virus that are injected into the human body. At once our body receives the part of virus in first vaccination; our body will be producing the antibodies against the corona virus. The antibodies type will be registered in our immune system which will fight against the corona virus if we exposed to it ^[16]. The truth behind still vaccinated people are infected and affected by the corona virus. The only way to reduce the chain spread of corona virus is to be vaccinated. It reduces the likelihood of virus transmission, reduce the chance of being infected During the analysis , the main three vaccines - Johnson & Johnson, Moderna and Pfizer have been noted very effective for preventing severe illness against COVID – 19^[24] vaccines of COVID – 19 are mostly safe and effective for the persons who are medically fit Vaccine may help the people by reducing the effect of severe disease or by preventing them from affected

by the disease When we are vaccinated, our body immune system is much prepared to shield off against the viruses by building the immunological system strong and effective against the covid-19. Vaccines are the safe way to improve your immune system, it teaches our body to fight against the threat. The other main reason of vaccination is to break the chain of spread ^[25] ^[26].



ADVANTAGES OF COVID-19 VACCINE

DISADVANTAGE OF COVID – 19 VACCINATIONS

It is normal to have mild side effect after getting injected while getting vaccinated. After vaccination it increases the blood flow in order to circulate the cells, which may increases the body temperature to destroy the virus. Mild fever or muscle ache indicates the vaccine is activated into our body they are the sign that our body is responding to the vaccine and our immune system is fighting against the virus The main disadvantage of vaccination is some people experienced some discomfort side effect such as pain at the injected site, excess tiredness, nausea, vomiting, swollen lymph nodes, joint pain, chills, muscle pain, headache etc. Extremely rare where have some common side effect include injection site pain, fever, fatigue, headache, muscle pain, chills and diarrhea. The chances of any of these side effects some covid-19 vaccines making up people sick with covid-19^[27] ^[28].



DISADVANTAGES OF VACCINATION**CONCLUSION**

Even though has a some side effect vaccine are safe and it help protect against covid-19.some common disadvantages of vaccination may lead to pain at injected site, fever, fatigue, headache, muscle pain, chills and diarrhea. This effects caused due to vaccination may not lead to death. The advantages of vaccination, our immune system is much prepared to shield against the viruses by building the immunological system strong and effective against the covid-19. Vaccines are the safe way to improve your immune system, it teaches our body to fight against the threat. The other main reason of vaccination is to break the chain of spread. In recent days, people understood the importance of vaccine and started vaccination in India. Peoples were continuously vaccinated with the help of medicinal advisors. The continuous increase in vaccination disturbs the continuous chain spread of COVID – 19

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