Vaccination: pros and cons

Concept A: Introduction

Vaccines are powerful medicines that protect us from deadly and dangerous diseases. Vaccination is a process of introducing a vaccine into the body to produce immunity to a specific disease. It is given in the form of an injection. The dosage is normally specified by the health care provider. The vaccine stimulates our immune system so that it can recognise the disease and protect us from any future infection. Vaccinations act as a protection against infections throughout our life.

Immunization is the process where a person becomes immune or resistant to an infectious disease, by the administration of a vaccine.

- Vaccines are invented by scientists and medical experts from around the world, and it usually requires 10 to 15 years of research before the vaccine is made available to the general public.
- The only exception being the C19 vaccines which were created in the shortest possible time.

Examples

- The measles, mumps, and rubella (MMR) vaccine
- varicella (chickenpox)
- Covaxin, covid shield, moderna are C19 vaccines

In india kids are vaccinated against 11 life threatening diseases

Concept B: Vocabulary needed to discuss the topic:

- **Eradication- It is** the complete removal or elimination of something like disease.
- **Infection- It is** a condition when a germ, such as a virus or bacteria, invades an organism and may or may not cause illness.
- Virus- it is **an infectious agent that can only replicate within a host organism**
- Antibodies- a blood protein produced in response to and counteracting a specific antigen
- Immunity- the ability of an organism to resist a particular infection or toxin by the action of specific antibodies or sensitized white blood cells.
- Mutation- the action or process of mutating.
- Vaccine Efficacy- measures the percentage reduction of a disease in a clinical trial .

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