

Akinleye temitope olaoluwa

Cho 300L

Epidemiology assignment

Here are clear and simple details about immunization, the injections used, what they prevent, and their correct injection sites (based on standard WHO/EPI guidelines).

1. What Is Immunization?

Immunization is the process of giving vaccines to protect a person from infectious diseases. Vaccines help the body build immunity so the person does not become sick or may only get a mild form of the disease.

2. Common Childhood Immunization Vaccines, What They Prevent, and Injection Sites

Below is a table for easy understanding:

A. At Birth

1. BCG

Prevents: Tuberculosis (TB)

Route: Intradermal (ID)

Site: Right upper arm

2. OPV 0

Prevents: Polio

Route: Oral drops

Site: Mouth

3. Hepatitis B (Birth dose)

Prevents: Hepatitis B infection

Route: Intramuscular (IM)

Site: Left thigh (anterolateral side

B. 6, 10, 14 Weeks

1. Pentavalent Vaccine (Penta)

Includes: DPT + Hepatitis B + Hib

Prevents: Diphtheria, Tetanus, Pertussis, Hepatitis B, Haemophilus influenzae

Route: IM

Site: Left thigh

2. PCV (Pneumococcal Conjugate Vaccine)

Prevents: Pneumonia, meningitis

Route: IM

Site: Right thigh

3. OPV 1, 2, 3

Prevents: Polio

Route: Oral

Site: Mouth

4. Rotavirus Vaccine

Prevents: Severe diarrhoea

Route: Oral

Site: Mouth

C. 9 Months

1. Measles-Rubella (MR) Vaccine

Prevents: Measles & Rubella

Route: Subcutaneous (SC)

Site: Left upper arm

2. Yellow Fever (YF) Vaccine

Prevents: Yellow Fever

Route: SC

Site: Right upper arm

D. 15–18 Months is(Booster doses)

Penta Booster: Left thigh

OPV Booster: Oral

Measles second dose (depending on country): Left upper arm

3. Summary of Injection Routes

Route Meaning Where Vaccine Goes

IM (Intramuscular) Into muscle Thigh or upper arm

SC (Subcutaneous) Under the skin Upper arm

ID (Intradermal) Within the skin layer Right upper arm (BCG)

Oral Through the mouth OPV, Rotavirus

4. Summary of Injection Sites

Right upper arm: BCG, Yellow Fever

Left upper arm: Measles-Rubella

Right thigh: PCV

Left thigh: Penta, HepB birth dose

Mouth: OPV, Rotavirus