

EXPERIMENT NO:01

AIM OF THE EXPERIMENT:

To study about National Immunization Schedule for Children adult Vaccine, which are included in National immunization Program.

THEORY:

- **Immunity:-** Ability of human body to tolerate to presence of material indigenous to the body to eliminate Foreign material.
- **Vaccine:-** Vaccine are whole or part of micro-organism administered to prevent an infectious Disease.

Immunization schedule: Ideal Immunization Schedule..

- Epidemiologically relevant
- Immunologically Competent
- Technologically feasible.
- Socially Acceptable.
- Affordable.
- Sustainable.

VACCINES NAME;

1 .BCG (Bacilli Calmette Guerin Vaccine)

- **Storage:-** for 12 months at 2-8⁰ C
- **Dose:-** Independent of age & weight of the body.

2. Polio Vaccine

- Two types of Polio Vaccine-
- (i) OPV

Storage:-Most heat Sensitive Vaccine, Strict cold chain maintenance

Dose:- Given Orally two drops.

- (ii) IPV

Storage:- at 2-8⁰C

Dose:-0.5ml (i.m.)

3. DT:- Diphtheria & Tetanus toxoids.

- **Storage:-** at 2-8⁰C
- **Dose:-**0.5ml deep (i.m.)
- **4. DTP vaccine:-**components of Pertussis Bacilli

- **Storage:-** at 2-8⁰C
- **Dose:-**0.5ml deep (i.m.) 6-12 years of children

5. Measles Vaccine:-

- **Storage:-** stored frozen at 2-8⁰C
- **Dose:-**0.5ml by S.C route at the age completed 9 months.

6. MMR Vaccine:-

- **Storage:-**at 2-8⁰C, Protected from light , Used within 4-6 hours.
- **Dose:-**at the age of 12-15 months & 2nd at 4-6 years of age.

7. Hib Conjugate Vaccine:-

- Vaccination started between 6-12 month: two primary dose & one booster at 18 months.
- Vaccination started between 12-15 months: One Primary Dose & One booster dose at 18 months.

- Children > 15 months: Single dose only.
- Not recommended for NORMAL children > 5 year of age.

8. Hepatitis B Vaccine:-

- **Storage:-** at 2-8⁰C
- **Dose:-** 0.5ml (i.m.)
- **For <18 years & 1ml in those > 18 years of age.**

Schedules:-

- Birth 1 & 6 months
- Birth 6 & 14 weeks.
- Birth 6 weeks & 6 month
- No booster dose.
- Catch up Vaccination: 0, 1 & 6 months

9. Typhoid Vaccines:-

- **Storage:** at 2-8⁰C
- **Dose:** 0.5ml (i.m.)

10. Varicella Vaccine:-

- **Storage:** Should be protected from light & needs to be used within 30 minutes of its reconstitution.
- **Dose:** 0.5ml by route : minimum
*1st age of 15 months & Second dose at 4-6 years.

11. Hepatitis A Vaccine:-

This Vaccine is given into two dose schedule 6 months apart

- **Storage:** at 2-8⁰C
- **Dose:** 0.5 ml (i.m)

12. Rotavirus Vaccines:-

- **Storage:** at 2-8⁰C
- **Dose:** The Vaccine should be administered after reconstitution as 1ml orally.

13. Influenza Vaccine:-

There are two types of Influenza Vaccine

- (i) Inactivated
- (ii) Influenza Vaccine

- **Storage:** at 2-8⁰C
- **Dose:** Used in children > 6 months.

14. Cholera Vaccines:

- **Storage:** at 2-8⁰C
- **Dose:** used for aged 2 year & above.

15. Rabies Vaccine:

- **Storage:** at 2-8⁰C
- **Dose:** Should be used within 6 hours of reconstitution.

COLD CHAIN

- System of transporting & storing Vaccine within recommended temperature from the place of manufacture to the point of Administration.
- Three main Components.
- Trained Personal.
- Transport & storage equipment.
- Efficient Management Procedure.

RESULT: Understood the study about National Immunization Schedule for Children adult Vaccine, which are included in National immunization Program_____