

Maintaining Cold Chain:

The cold chain is the combination of people and equipment with the task of ensuring that the vaccines are kept in an ideal environment and temperature to preserve their quality during their transportation from site of production to the site of storage or application.

The cold chain consists of series of storage and transport links all designed to keep vaccines within an acceptable range until it reaches the user.

The vaccines are damaged by temperature more than 8⁰ c.

Devices used for cold storage:

- I. Refrigerator:
- II. Thermometer (indicate the temperature level)
- III. Cold boxes for storage and transportation
- IV. Ice packs
- V. ILR
- VI. Walk in Cold room

Walk In Cold room:

- Walk in cold room is a cold storage condition on large scale and it provides a constant comfortable temperature throughout the space.
- A cold room is a type of refrigeration chamber or insulated space designed to maintain an artificially generated Temperature.
- Cold rooms are used for storing temperature sensitive items such as food items and pharmaceutical product like vaccines.
- Most cold rooms will be able to accommodate temperature between -2⁰ -and 10⁰ c .
- all the health workers in a health post should know how to monitor the cold chain equipment and what action to take if the temperature is too high or too low.

Ice Lined Refrigerator:

Ice lined refrigerator – under the immunization program, ILR have been supplied with top opening LID

ILRs are designed with an ice bank which keeps the internal temperature at a safe level despite electricity failure.

The inner walls of ice lined refrigerator are lined with plastic ice packs. These ice lines play important role in maintaining temperature for long hours. These refrigerators are equipped with microprocessor based temperature controller and offer various safety alarms including sensor error alarm and temperature low / high alarm.

Vaccinees are kept in basket and maintain temperature between 2⁰c to 8⁰ c with as little as 8 hours of power supply in 24 hours .

FEATURES:

- Over 25 hours hold over time
- Ideal for carrying vaccines and blood bags

- Microprocessor temperature controller
- Corrosion free interior and exterior
- Caster wheels at bottom

