#### **COLD CHAIN**

#### What is a cold chain?

A cold chain is a temperature-controlled supply chain comprising refrigerated production, storage and distribution facilities supported by equipment that can constantly maintain the required low-temperature range.

Many pharmaceutical drugs, medicines and speciality treatments are temperature-sensitive and require swift supply chains. Cold chain storage and distribution provides a reliable mechanism to maintain the integrity of the drug substances and products.

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### **Essential Elements of Cold Chain**

- PERSONNEL to organize and manage vaccine distribution
- EQUIPMENT for storage and transport of vaccines.
- Transport facilities
- Maintenance of equipment
- Monitoring

# In general

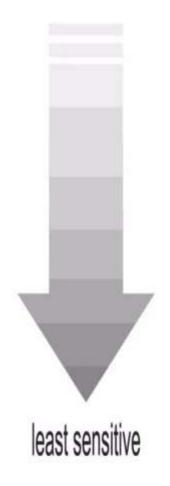
 All Vaccines tend to lose potency on exposure to heat above +8°C

 Some Vaccines lose potency when exposed to freezing temperatures

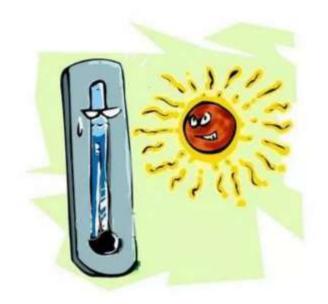
The damage is irreversible

## Vaccines sensitive to heat

most sensitive

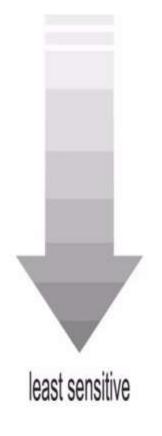


OPV Measles BCG



# Vaccines sensitive to freezing

most sensitive



Hep- B
DPT
DT
TT

