

AED Project Outline

Vaccine Administration System

Enterprise:-

Manufacturers of Vaccine - Enterprise
Government (Federal) - Enterprise
Government (State) - Enterprise
Cold Chain - Enterprise

Organization:-

Vaccination Center - Organization
Raw Material Suppliers - Organization
Hospital (Pharmacy) Head - Organization
Vaccination Session Manager - Organization
AEFI (Adverse Events Post Immunization) Manager - Organization
Vaccinator - Organization
Beneficiary - Organization
Emergency Ambulance - Organization

- Federal Government will procure mass vaccines from the vaccine manufacturers and then distribute the vaccine to state governments using cold chain
- The State Government after receiving a fresh lot of vaccines from the federal government will distribute the vaccines to the hospitals and pharmacies as per the requirement stated by the hospitals and pharmacies every week
- Hospitals, pharmacies (Center of Vaccination) will conduct vaccination sessions every day as per the availability of doses with them
- Vaccine Beneficiaries will be vaccinated by a vaccinator at the session
- Federal Government will request a Vaccine Supplier for the supply of vaccines from Federal Warehouse to the State warehouse, and the state government will request transportation from the state warehouse to the hospital. Fed will purchase from the Manufacturers. Cold Chain suppliers will also supply from Manufacturer to Fed warehouse
- The hospital Head will be responsible for requesting vaccines from the state government as per requirements, and it is also responsible for the adequate stock of raw materials(Syringes, Band-aids)
- The Session Manager is responsible to conduct vaccination sessions at the hospital, it is also responsible to report any kind of wastage to the Hospital Head at end of every session
- The raw material supplier will supply raw material to Hospitals upon request by the Hospital Head
- One Hospital can have one or more than one session running parallelly
- One session will have just one type of vaccine, e.g. If the session is administering Pfizer they cannot administer Moderna
- AEFI manager's duty is to keep a track of all AEFI's at the session he is responsible for. One AEFI manager per Hospital. In case of any AEFI, he is responsible for the

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management which includes shifting to another Hospital by requesting Emergency Ambulance if the AEFI gets serious

- The vaccinator will be responsible for administering vaccines
- The beneficiary will receive the vaccine

Work Requests:-

- 1) Fed to Cold Chain from Manufacturer to Fed Reserve
- 2) Fed to Manufacturer for purchase order
- 3) State to Fed for more doses
- 4) Fed to Cold Chain from Fed Reserve to State Reserve
- 5) State to Cold Chain from State Reserve to Hospitals
- 6) Hospital Head to State for more doses
- 7) Hospital Head to Raw Material Supplier for Syringes etc
- 8) AEFI Manager to Emergency Ambulance for the shifting patient in case of severe AEFI