



OPERATION WARP SPEED VACCINE DISTRIBUTION PROCESS

DISTRIBUTION AND ADMINISTRATION OF A COVID-19 VACCINE FOUR KEY TENETS

Control / Visibility

Where vaccines and secondary item kits are at all times in the process of distribution and ensuring the vaccines go to prioritized groups as determined by policy

Coverage

Deliver vaccines beyond the normal brick and mortar facilities, including potential mobile or on-site delivery of vaccine to long-term healthcare facilities and other hard to reach populations



Uptake

How many vaccines were administered per location, per day to match supply with demand

Traceability

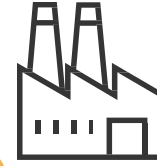
Confirm which of the approved vaccines were administered regardless of location (private / public), when a reminder is sent to return for second doses, and when the correct second dose is administered.

Key Tenets of Distribution

- ✓ **Control:** Targeted populations
- ✓ **Traceability:** Where the vaccine is (End-to-End visibility)
- ✓ **Uptake:** Know when shots are administered
- ✓ **Coverage:** Establishing administration across the population

TRIALS

MANUFACTURING



FDA

Based on data from clinical trials, vaccine candidate is submitted for Emergency Use Authorization (EUA) or Biologics License Application (BLA)

- Reviews EUA / BLA
- Approved EUA / BLA
- Oversees ongoing reporting

Manufacturer

Vaccine is being manufactured concurrent with clinical trials, and upon EUA, BLA and CDC recommendation, vaccine is ready to ship

OWS & CDC

Allocation of initial / limited doses based on prioritization models

- Independent advisory panel (Advisory Committee on Immunization Practices with input from Nat'l Academies of Science) informs the CDC's prioritization
- Initial / limited doses recommended to specific groups
 - Oversees distribution of vaccine
 - Tracks product that is delivered / administered



Administration Sites

Vaccines, upon EUA/BLA are ready to ship to:

- Pharmacies
- Nursing homes
- Public Clinics
- Hospitals
- Doctor's Offices & Mobile Clinics
- Military Treatment Facilities



Distribution Facilities

Vaccines & associated ancillary kits (syringes, needles, & alcohol swabs) will be shipped concurrently to storage depots / facilities



Distributor

- Maximizes use of existing pharmaceutical distribution infrastructure
- Central Distributor established for kitting & distribution operations
- IT infrastructure supports ordering, distribution, administration, and tracking end-to-end

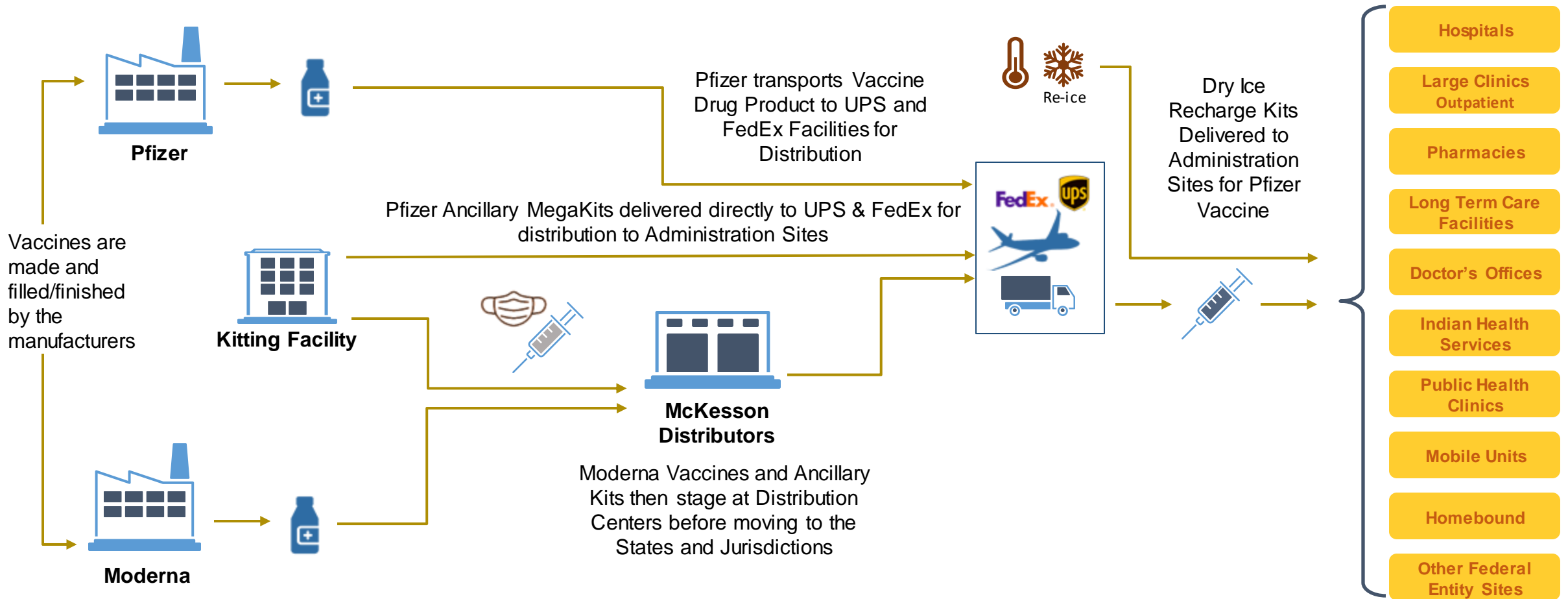
Pharmacovigilance 24 Months (CDC / FDA)

Post-trial monitoring for adverse effects / additional safety feature



OPERATION WARP SPEED

Vaccine Distribution Process



Leveraging Existing Networks, Processes and Partnerships