


Possible Vaccine Availability Under EUA

Candidate	November 2020	December 2020 - March 2021	End of December 2021
Vaccine A	<ul style="list-style-type: none"> The goal is to submit to the FDA late November to request EUA. Vaccine being produced concurrently with Phase 3 clinical trials. 	Goal is to have 100 Million doses	Goal is to have 1.3 Billion doses

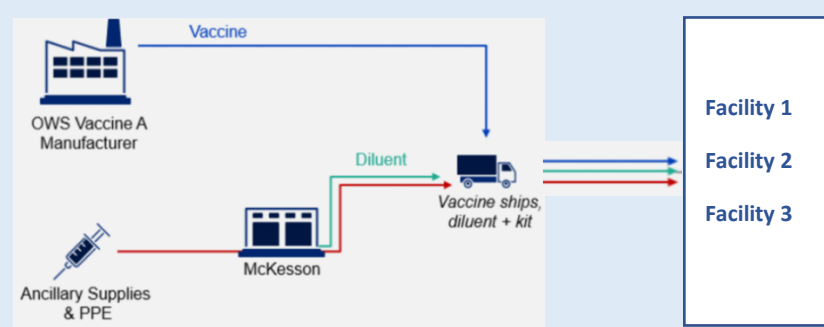
Vaccine Packaging Overview



- 2ml type 1 glass preservative free multi-dose vial (MDV)
- Each MDV has **0.45ml frozen liquid vaccine product**
- 5 doses per vial
- Single tray ("Pizza Box") holds 195 vials
- 975 doses per tray
- Tray (white Box) 229 x 229x40mm
- Minimum 1 tray (975 doses) or up to 5 trays (max 4875) stacked in a payload carton
- Payload carton submerged in 23 Kg dry ice pellets (10 mm-16 mm pellets)
- Thermal shipper ("Pizza Box") dimensions
 - Internal: 245mmx245mmx241mm
 - External: 400mmx400mmx560mm
- Total weight of the thermal shipper - 35 kg

Vaccine/Diluent/Ancillary Supplies/PPE Shipment

Minimum order: ~1,000 doses
Maximum order: ~5,000 doses



Vaccine Storage & Handling at the Point of Vaccination

Ultra-Low Temperature Freezer

- Can be stored at -70°C ± 10°C for 6 months

Thermal Shipper

- Must replenish dry ice within 24 hours of receiving shipment and again on day 5 & 10.**
- The Thermal Shipper must only be opened twice per day and should be closed within 1 minute of opening.**
- The shipper delivered with Real Time Monitoring (RTM) temperature logger, GPS enabled. This will be activated from the manufacturer to point of vaccination. It will then be disconnected.
- The thermal shipper will need to be returned to the manufacturer within 13 days.

The Vaccine

- Vaccine can be taken out of the tray (Pizza Box) and stored in refrigerator (at 2-8°C) and must be used within **5 days** (discard unused doses after 5 days). **This is the vaccine straight from the box that is NOT reconstituted.**
- Once the vaccine is reconstituted using the diluent, it can be stored at room temperature (RT) and must be used within 6 hours** (discard unused, reconstituted vaccine after 6 hours).

Vaccine Administration

- Take the vaccine vial (0.45ml) out of the Pizza Box or refrigerator**
 - Let it thaw for 30 mins at room temperature
 - Gently invert the vaccine vial 10 times to homogenize the content
- Draw 1.8 ml of the provided Diluent (saline provided in 3m vial) and combine it with the vaccine**
 - Use 3 ml syringe/23-gauge needle
 - Invert 10 times again
- Draw 0.3 ml (one dose) of the reconstituted vaccine**
 - (using 1 ml syringe/21-23gauge needle)
 - Total of 5 doses** in each reconstituted vial
- Administer by intramuscular injection (IM) to 5 individuals (must be done within 6 hours)**
- Discard any remaining liquid in the vial**

