Minimizing Vaccine Waste (End of day doses)

PURPOSE
This document provides guidance for how to minimize COVID-19 vaccine waste. To ensure equity and alignment with the State of Vermont’s phased rollout of COVID-19 vaccine, this protocol provides the specific practices vaccine administration sites should use for a standby list to minimize vaccine waste.

PRIORITIZATION FOR USING MULTIDOSE VIALS ONSITE
1. All strategies must consider the following, in this order:
   a. Current phase of Vermont eligibility (e.g. January 26, 2021, Vermonter age 75 and older). This should start with those registered for appointments farthest in the future and can include other current patients/patrons.
   b. Prior phases of Vermont eligibility (About COVID-19 Vaccines in Vermont | Vermont Department of Health (healthvermont.gov)). At this time prior phases include healthcare workers including first responders with direct patient care, staff and residents of Long-Term Care facilities, and Vermonter age 75 and older.
   c. Next planned phases of Vermont eligibility (e.g. Vermonter age 70+, 65+).

PROTOCOL FOR USING MULTIDOSE VIALS ONSITE
1. Prepare a standby list strategy appropriate to the setting and function of your site. Please submit to the Health Department, in writing, a brief description of how your site will use standby lists to reach eligible populations.
2. Review daily the clinic/appointment schedule to determine if it matches daily allocated vaccine.
   a. For example, you have 150 appointment slots with 149 registered individuals. Given that you expect some vials to allow bonus doses, you may anticipate more than 1 additional extra dose at the end of the day.
3. As a clinic or appointment day progresses, monitor no shows and bonus doses to anticipate potential need/ability to reach additional people.
4. Determine the number of hours prior to end of daily vaccine administration to activate the standby strategy by calling people who may be able to arrive at the administration site by the end of the day.
   a. If individuals with future appointments are rescheduled, republish those appointments as available by the end of the day.
5. If those methods are exhausted and vaccines are at jeopardy of spoilage, a site has discretion to consider contacting people in the future phases or others it can reasonably reach, including staff, as a last resort. The goal is to reach as many eligible people as possible, while eliminating vaccine waste.
6. For vaccines administered to standby patients, sites should use relevant registration and reporting mechanisms as well as ensure that second dose appointments are scheduled for the appropriate timeframe at the same location.
PROTOCOL FOR USING MULTIDOSE VIALS IN MULTIPLE LOCATIONS
To be developed upon receiving CDC and manufacturer guidance for transporting punctured MDV.

REVISION HISTORY

<table>
<thead>
<tr>
<th>DATE</th>
<th>SUMMARY OF REVISIONS</th>
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<tr>
<td>1/26/2020</td>
<td>Initial Creation</td>
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DEFINITIONS

- **Bonus Doses** – Doses retrieved per vial beyond those expected in ordering and inventory; must be monitored and reported through Vaccine Inventory Monitoring System (VIMS)
- **Expiration** – Each vaccine has an expiration date beyond this it is not viable. Vaccines not properly stored or handled can become non-viable.
- **Multidose vials (MDV)** – Pharmaceutical manufacturers package vaccine in multidose vials that can be administered to multiple people within a specific timeframe. After the first dose has been withdrawn, the contents of the vial must be used within 6 hours. Unused doses must be discarded after 6 hours.
  - Pfizer BioNTech COVID-19 vaccine is allocated as 6 doses per vial; some administrations can retrieve up to 6 doses per vial. This formulation has no preservatives.
  - Moderna COVID-19 vaccine is allocated as 10 doses per vial; some administrations may retrieve 8-11 doses per vial. This formulation has no preservatives.
- **No shows** – Scheduled appointments for which patients do not present at clinic/appointment.
- **Standby** – A list of eligible people who may be ready to receive vaccine on short notice that vaccine is available and would otherwise be wasted.