

## DEVELOPMENTAL DISABILITIES ADMINISTRATION Olympia, Washington

TITLE: VACCINE STORAGE AND 17.05.02

HANDLING

<u>AUTHORITY</u> <u>Chapter 71A.20 RCW</u> Residential Habilitation Centers

**REFERENCES** Immunization Information System Training Portal (DOH)

Vaccine Storage and Handling (DOH)

Vaccine Storage and Handling Resources (CDC)

You Call the Shots (CDC Training)

#### **DEFINITIONS**

**Buffered temperature probe** means a temperature probe designed to prevent false readings by protecting the thermometer from sudden changes in temperature that can occur when opening a refrigerator door. A probe is "buffered" by immersing it in a vial filled with liquid (e.g., glycol, ethanol, glycerin), loose media (e.g., sand, glass beads), or a solid block of material (e.g., Teflon®, aluminum).

**Conditioned water bottles** means frozen water bottles that have been submerged under lukewarm water until the ice block inside can spin freely.

**Digital data logger (DDL)** means an electronic device that records data digitally over time or in relation to location with either a built-in or external instrument or sensor.

Dormitory-style (bar-style) storage unit means a combination refrigerator-freezer unit with one exterior door and an evaporator plate (cooling coil), which is usually located inside an icemaker compartment (freezer) within the refrigerator.

Phase change materials (PCMs) means engineered packing supplies that help control container temperatures during vaccine transport or shipping. Vaccine appropriate PCMs change phases 4°C-5°C (39°F-41°F)

**Temperature excursion** means a temperature reading that is outside the recommended range

	CHAPTER 17	
DDA POLICY MANUAL	PAGE 1 OF 9	ISSUED 06/2021

for vaccine storage as defined by the manufacturer's package insert.

#### **PURPOSE**

The purpose of this procedure is to establish requirements for Residential Habilitation Center (RHC) vaccine storage and handling procedures that protect clients and staff from vaccine-preventable diseases.

#### <u>SCOPE</u>

This procedure applies to all Residential Habilitation Center employees involved in ordering, receiving, storing, dispensing, or transferring vaccines. All staff handling vaccines must read, sign, and adhere to the protocols described in this document.

#### **PROCEDURE**

- A. All RHCs must maintain a vaccine management plan that addresses routine and emergency situations, ensures accountability, and maintains efficacy of vaccines.
- B. The RHC will follow the requirements of Washington State Department of Health immunization program for any vaccines received from the program. (See State Program User Manual.)
- C. Ordering, Receiving, and Inventory
  - 1. Vaccines must be ordered based on historical or projected use. Excess quantities must not be ordered.
  - 2. Upon arrival at the facility, vaccines must be checked and transferred to appropriate temperature storage in a timely fashion. See "Storage Temperatures" in Attachment A for appropriate temperatures.
  - 3. Vaccines must be delivered in thermal protective shippers and staff must check for damage and check quantities against packing lists for errors upon delivery.
  - 4. Vaccines must be released only in response to one of the following valid requests:
    - a. A medical order for administration to clients; or

### VACCINE STORAGE AND HANDLING

- b. A written request to transfer stock from employee health for staff immunization.
- 5. Vaccine inventory must be routinely monitored.
  - a. Inventory must be:
    - i. Electronically monitored; or
    - ii. Manually checked at least monthly.
  - b. Any significant quantity discrepancies must be investigated and documented.
- 6. Any unused or expired vaccines must be disposed of or returned to vendor for credit, as applicable.

#### D. Storage and Handling

- 1. Vaccine storage units must be pharmaceutical-grade, laboratory-grade, or standalone style (only a freezer portion or only a refrigerator portion). Dormitory style units must not be used for vaccine storage.
- 2. Unless otherwise indicated on Attachment A for a specific vaccine, vaccine storage units must be maintained within the following ranges:
  - a. Refrigerator temperatures must be kept between 2°C and 8°C (36°F and 46°F).
  - b. Freezer temperatures must be kept between -25°C and -15°C (-13°F and 5°F).

#### E. Temperature monitoring

1. Temperatures must be monitored using a calibrated digital data logger (DDL) with a buffered temperature probe that continuously tracks temperature.

### VACCINE STORAGE AND HANDLING

- a. If the DDL has a built-in system to trigger an alarm or send an alert, it may be checked monthly or bimonthly based on memory capabilities by downloading and saving data to a computer.
- b. If the DDL does not have a built-in system to trigger an alarm or send an alert, but does track minimum and maximum temperatures, temperatures must be checked and recorded at the beginning of each workday.
- c. If the DDL does not alarm, send alerts, or track minimum and maximum temperatures, temperatures must be checked and recorded at the beginning and end of each workday.
- 2. Any digital data logger discrepancies or errors must be investigated and resolved for accuracy.
- 3. Out-of-range temperatures (excursions) must be identified, investigated, and resolved according to Attachment B, *Handling a Temperature Excursion in Your Vaccine Storage Unit*.

#### F. Transporting vaccines

- 1. RHCs must not transport vaccines from the original receiving facility.
- 2. If vaccines must be transported, the RHC must follow CDC vaccine transportation guidance and obtain approval for that transport from pharmacy personnel. All appropriate packaging, temperature control devices, inventory and invoice records and any other documentation or process must comply with CDC or internal procedures.

#### G. Emergencies

- 1. Pharmacy vaccine freezers and refrigerators must be kept in buildings connected to a backup generator in case of power outage.
- 2. If a backup generator fails, staff must not open the freezer or refrigerator as long as temperature remains within range (opening will disrupt insulation).

### VACCINE STORAGE AND HANDLING

- 3. If the temperature in a freezer goes out of range, remove the vaccines and initiate emergency transfers into hard-sided insulated containers with coolant and calibrated thermometer.
  - a. Coolant may be frozen conditioned water bottles or pre-identified phase change materials at that change phase at 2-8°C.
  - b. To protect from freezing, vaccines must not be touching coolants. Layers of cardboard, Styrofoam, or bubble wrap may be used as insulation for even temperatures.
  - c. This is considered a temperature excursion and the processes in Attachment B must be followed.
  - d. If a vaccine thaws, do not refreeze the vaccine.
- 4. If there are issues for vaccines stored in a refrigerator, move to insulated storage as described in subsection (G)(3) above. If the temperature is monitored with a DDL and temperatures are within range, this is not considered a temperature excursion.
- 5. RHCs must designate an employee responsible for refrigerator or freezer repair and document the employee's name and include contact information for resolving issues.

#### H. Training

- 1. Staff involved in ordering, receiving, storing, dispensing, or transferring vaccines must:
  - a. Complete the CDC's <u>You Call the Shots Vaccine Storage and Handling</u> training annually; and
  - b. Review this procedure and related forms annually.
- 2. Training activities must be documented according to the RHC's process.

#### VACCINE STORAGE AND HANDLING

17.05.02

Date: June 15, 2021<sup>1</sup>

#### **SUPERSESSION**

TITLE:

RHC Standard Operating Procedure 105.5, *Vaccine Storage and Handling* Issued June 15, 2021

Approved: Uplantaget

Developmental Disabilities Administration

 $^{1}$  This document was a standard operating procedure that was reissued as a DDA policy without substantive changes.

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# ATTACHMENT A Vaccine Inventory Guide

Vaccine			Preparation and	Manufacturer contact
and 5°F)  2°C and 8°C (36°F and 46°F) for 30 days  COVID19 (Pfizer)  -80°C to -*60C (-112°F to -76°F)  -25°C to -15°C (-13°F to 5°F) for up to 2 weeks  2°C and 8°C (36°F and 46°F) for 5 days  COVID19 (Janssen) AKA Johnson & Johnson & 9°C to 25°C (47°F to 77°F) for up to 12 hours  Hepatitis A (VAQTA)  Phepatitis B (Engerix-B) Human Apajillomavirus (Gardisil-9)  Measles, Mumps, Rubella (M-M-R II)  PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  PSV (Pneumovax-23)  46°F)  Tetanus-diphtheria- 2°C and 8°C (36°F and 46°F)  After)  After)  O.5ml intramuscularly Merck 800-444-2080  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  O.5ml intramuscularly Pfizer 800-505-4426  PSV (Pneumovax-23)  After)  2°C and 8°C (36°F and 46°F)  O.5ml intramuscularly Merck 800-444-2080  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  O.5ml intramuscularly Pfizer 800-505-4426  After)  PSV (Pneumovax-23)  2°C and 8°C (36°F and 46°F)  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  O.5ml intramuscularly Pfizer 800-505-4426  After)  After Poor After Pfizer 800-505-4426  After)  PSV (Pneumovax-23)  2°C and 8°C (36°F and 46°F)  After Poor After Pfizer 800-505-4426  After)  Sanofi Pasteur 800-822-  Tetanus-diphtheria-  2°C and 8°C (36°F and 46°F)  O.5ml intramuscularly  Sanofi Pasteur 800-822-	Vaccine	Storage temperature	administration	information
2°C and 8°C (36°F and 46°F) for 30 days	COVID19 (Moderna)	-25°C and -15°C (-13°F	After reconstitution with	1-866-MODERNA
2°C and 8°C (36°F and 46°F) for 30 days		and 5°F)	sterile normal saline, give	(1-866-663-3762)
COVID19 (Pfizer)			within 6 hours	
COVID19 (Pfizer)  -80°C to -°60C (-112°F to -76°F)  -25°C to -15°C (-13°F to 5°F) for up to 2 weeks  2°C and 8°C (36°F and 46°F) for 5 days  COVID19 (Janssen) AKA Johnson & 9°C to 25°C (47°F to 77°F) for up to 12 hours  Hepatitis A (VAQTA)  2°C and 8°C (36°F and 46°F) Hepatitis B (Engerix-B) Human Appillomavirus (Gardisil-9)  Measles, Mumps, Rubella (M-M-R II)  Pfizer COVID line 1-800-438-1985  -25°C to -15°C (-13°F to 46°F)  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  -50°C and 8°C (36°F and 46°F)  PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  -25°C and 8°C (36°F and 46°F)  -26°C and 8°C (36°F and 46°F)  -50°C and 8°C (36°F and 46°F)		,		
-76°F) -25°C to -15°C (-13°F to 5°F) for up to 2 weeks  2°C and 8°C (36°F and 46°F) for 5 days  COVID19 (Janssen) AKA Johnson & 9°C to 25°C (47°F to 77°F) for up to 12 hours  Hepatitis A (VAQTA) 2°C and 8°C (36°F and 46°F) Hepatitis B (Engerix-B) Hepatitis B (Engerix-B) Human Papillomavirus (Gardisil-9)  Measles, Mumps, Rubella (M-M-R II) PCV13 (Prevnar-13) 2°C and 8°C (36°F and 46°F)  2°C and 8°C (36°F and 46°F)  -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C and 8°C (36°F and 46°F) -50°C an		· ' '	,	
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2°C and 8°C (36°F and 46°F) for 5 days  COVID19 (Janssen) AKA Johnson & 2°C to 8°C (36°F to 46°F) AKA Johnson  9°C to 25°C (47°F to 77°F) for up to 12 hours  Hepatitis A (VAQTA) Hepatitis B (Engerix-B) A6°F) Human Papillomavirus (Gardisil-9) Measles, Mumps, Rubella (M-M-R II) PCV13 (Prevnar-13)  PCV3 (Prevnar-13) PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  2°C and 8°C (36°F and 46°F)  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  2°C and 8°C (36°F and 46°F)  0.5ml intramuscularly Pfizer 800-505-4426  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  0.5ml subcutaneously PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  0.5ml intramuscularly Afo°F)  PPSV (Pneumovax-23)  A6°F)  2°C and 8°C (36°F and 46°F)  2°C and 8°C (36°F and 46°F)  0.5ml intramuscularly Sanofi Pasteur 800-822- 2463  Tetanus-diphtheria-  2°C and 8°C (36°F and 0.5ml intramuscularly Sanofi Pasteur 800-822-		-25°C to -15°C (-13°F to		
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for up to 12 hours  Hepatitis A (VAQTA)  2°C and 8°C (36°F and 46°F)  Hepatitis B (Engerix-B)  Human  Papillomavirus (Gardisil-9)  Measles, Mumps, Rubella (M-M-R II)  PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  PPSV (Pneumovax-23)  PCV13 (Prevnar-14)  Portion A (Papillomavirus (2°C and 8°C (36°F and 46°F)  PPSV (Pneumovax-23)  Tetanus-diphtheria (Tenivac)  Tetanus-diphtheria-Carbon (Tenivac)  PC and 8°C (36°F and 46°F)  PSV (Pneumovax-2463  Tetanus-diphtheria-Carbon (2°C and 8°C (36°F and 46°F)  PSV (Pneumovax-2463  Tetanus-diphtheria-Carbon (2°C and 8°C (36°F and 46°F)  PSV (Pneumovax-2463  Tetanus-diphtheria-Carbon (2°C and 8°C (36°F and 46°F)  Tetanus-diphtheria-Carbon (2°C and 8°C (36°F and 46°F)  PSV (Pneumovax-2463  Tetanus-diphtheria-Carbon (2°C and 8°C (36°F and 46°F)  Tetanus-diphtheria-Ca	AKA <b>Johnson &amp;</b>			1-800-565-4008
Hepatitis A (VAQTA)  2°C and 8°C (36°F and 46°F)  Hepatitis B (Engerix-B)  46°F)  Human  Papillomavirus (Gardisil-9)  Measles, Mumps, Rubella (M-M-R II)  PCV13 (Prevnar-13)  PPSV (Pneumovax-23)  PPSV (Pneumovax-23)  Tetanus-diphtheria (Tenivac)  Tetanus-diphtheria-  Tetanus-diphthe	Johnson	9°C to 25°C (47°F to 77°F)		
Hepatitis B (Engerix-B)		<u>'</u>		
Hepatitis B (Engerix-B)	Hepatitis A (VAQTA)	,	1 ml intramuscularly	Merck 800-444-2080
B) 46°F)  Human Papillomavirus (Gardisil-9) Measles, Mumps, Rubella (M-M-R II)  PCV13 (Prevnar-13)  PPSV (Pneumovax-23)  Tetanus-diphtheria- (Tenivac)  Papillomavirus 46°F)  2°C and 8°C (36°F and 46°F)  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  0.5ml subcutaneously  Pfizer 800-505-4426  0.5ml intramuscularly or Merck 800-444-2080  Merck 800-444-2080  Merck 800-444-2080  O.5ml intramuscularly  Merck 800-444-2080  O.5ml intramuscularly or subcutaneously  O.5ml intramuscularly or Sanofi Pasteur 800-822-2463  Tetanus-diphtheria- 2°C and 8°C (36°F and 0.5ml intramuscularly Sanofi Pasteur 800-822-		,	A 11	001/000 175 0000
Human Papillomavirus (Gardisil-9)  Measles, Mumps, Rubella (M-M-R II)  PCV13 (Prevnar-13)  PPSV (Pneumovax-23)  Tetanus-diphtheria (Tenivac)  Papillomavirus (46°F)  2°C and 8°C (36°F and 46°F)  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  0.5ml intramuscularly  Pfizer 800-505-4426  0.5ml intramuscularly or subcutaneously  Pfizer 800-505-4426  0.5ml intramuscularly or subcutaneously  Nerck 800-444-2080  Merck 800-444-2080  Merck 800-444-2080  Merck 800-444-2080  Sanofi Pasteur 800-822- 2463  Tetanus-diphtheria- 2°C and 8°C (36°F and 46°F)  Sanofi Pasteur 800-822-	, , , , ,	,	1 ml intramuscularly	GSK 866-475-8222
Papillomavirus (Gardisil-9)  Measles, Mumps, Rubella (M-M-R II)  PCV13 (Prevnar-13)  PSSV (Pneumovax-23)  Tetanus-diphtheria (Tenivac)  Papillomavirus (Gardisil-9)  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  0.5ml subcutaneously  P. O.5ml intramuscularly 0.5ml intramuscularly or subcutaneously  O.5ml intramuscularly or subcutaneously  O.5ml intramuscularly or subcutaneously  O.5ml intramuscularly or Sanofi Pasteur 800-822-2463  Cond 8°C (36°F and O.5ml intramuscularly  O.5ml intramuscularly  Sanofi Pasteur 800-822-2463  Cond 8°C (36°F and O.5ml intramuscularly  Sanofi Pasteur 800-822-3463  Cond 8°C (36°F and O.5ml intramuscularly  Sanofi Pasteur 800-822-3463		· '	0 Emlintramuscularly	Marck 900 444 2090
(Gardisil-9)After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.Merck 800-444-2080PCV13 (Prevnar-13)2°C and 8°C (36°F and 46°F)0.5ml subcutaneouslyPfizer 800-505-4426PPSV (Pneumovax-23)2°C and 8°C (36°F and 46°F)0.5ml intramuscularly or subcutaneouslyMerck 800-444-2080Tetanus-diphtheria (Tenivac)2°C and 8°C (36°F and 46°F)0.5ml intramuscularly or subcutaneouslySanofi Pasteur 800-822-2463Tetanus-diphtheria-2°C and 8°C (36°F and 46°F)0.5ml intramuscularly or Sanofi Pasteur 800-822-2463		,	0.5iiii iiiti aiiiusculariy	WIEI CK 600-444-2060
Measles, Mumps, Rubella (M-M-R II)  PCV13 (Prevnar-13)  PPSV (Pneumovax-23)  Pest (26°F)  Pest (27°C)  Pest (28°F)  Tetanus-diphtheria  (Tenivac)  After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 8 hours.  0.5ml subcutaneously  0.5ml intramuscularly  0.5ml intramuscularly or subcutaneously  0.5ml intramuscularly  Sanofi Pasteur 800-822-2463  Cond 8°C (36°F and 0.5ml intramuscularly  Tetanus-diphtheria-  2°C and 8°C (36°F and 0.5ml intramuscularly  Sanofi Pasteur 800-822-		101)		
Rubella (M-M-R II)  and 46°F)  Do not freeze diluent  Do not freeze diluent  Do not freeze diluent  O.5ml subcutaneously  PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  PPSV (Pneumovax-23)  Petanus-diphtheria (Tenivac)  Tetanus-diphtheria-  2°C and 8°C (36°F and 46°F)  Do not freeze diluent  O.5ml subcutaneously  O.5ml intramuscularly or subcutaneously  O.5ml intramuscularly or subcutaneously  O.5ml intramuscularly Sanofi Pasteur 800-822-2463  Tetanus-diphtheria-  2°C and 8°C (36°F and 46°F)  O.5ml intramuscularly  Sanofi Pasteur 800-822-2463  Sanofi Pasteur 800-822-	· · · · · · · · · · · · · · · · · · ·	-50°C and +8°C (-58°F	After reconstitution with	Merck 800-444-2080
pCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  PPSV (Pneumovax-23)  Tetanus-diphtheria (Tenivac)  2°C and 8°C (36°F and 46°F)  Do not freeze diluent  give immediately or return to refrigerator for up to 8 hours.  0.5ml subcutaneously  0.5ml intramuscularly  0.5ml intramuscularly or subcutaneously  Sanofi Pasteur 800-822-2463  Co.5ml intramuscularly  Sanofi Pasteur 800-822-2463  Sanofi Pasteur 800-822-25		· ·		
pCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  PPSV (Pneumovax-23)  Tetanus-diphtheria (Tenivac)  2°C and 8°C (36°F and 46°F)  up to 8 hours.  0.5ml subcutaneously  0.5ml intramuscularly or subcutaneously  0.5ml intramuscularly or subcutaneously  0.5ml intramuscularly  Sanofi Pasteur 800-822-2463  Complete the com	,	,	give immediately or	
PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  PPSV (Pneumovax-23)  Tetanus-diphtheria (Tenivac)  2°C and 8°C (36°F and 46°F)  0.5ml intramuscularly Pfizer 800-505-4426  0.5ml intramuscularly or subcutaneously  0.5ml intramuscularly or subcutaneously  0.5ml intramuscularly Sanofi Pasteur 800-822-2463  0.5ml intramuscularly  Sanofi Pasteur 800-822-2463  0.5ml intramuscularly  Sanofi Pasteur 800-822-2463		Do not freeze diluent	return to refrigerator for	
PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  PPSV (Pneumovax-23)  Tetanus-diphtheria (Tenivac)  2°C and 8°C (36°F and 46°F)  2°C and 8°C (36°F and 50.5ml intramuscularly or 50.5ml intramuscularly or 50.5ml intramuscularly or 50.5ml intramuscularly			up to 8 hours.	
PCV13 (Prevnar-13)  2°C and 8°C (36°F and 46°F)  PPSV (Pneumovax-23)  Tetanus-diphtheria (Tenivac)  2°C and 8°C (36°F and 46°F)  2°C and 8°C (36°F and 50.5ml intramuscularly or 50.5ml intramuscularly or 50.5ml intramuscularly or 50.5ml intramuscularly				
PPSV (Pneumovax- 2°C and 8°C (36°F and 3°C (36°F and 46°F)  Tetanus-diphtheria (Tenivac)  Tetanus-diphtheria- 2°C and 8°C (36°F and 46°F)  Tetanus-diphtheria- 2°C and 8°C (36°F and 5°C (36°F and 46°F)  Tetanus-diphtheria- 2°C and 8°C (36°F and 5°C (36°F			,	
PPSV (Pneumovax- 23) 2°C and 8°C (36°F and subcutaneously 2°C and 8°C (36°F and subcutaneously 2°C and 8°C (36°F and subcutaneously 46°F) 30.5ml intramuscularly 50.5ml intramuscularly	PCV13 (Prevnar-13)	,	0.5ml intramuscularly	Pfizer 800-505-4426
23)46°F)subcutaneouslyTetanus-diphtheria (Tenivac)2°C and 8°C (36°F and 46°F)0.5ml intramuscularly 2463Sanofi Pasteur 800-822- 	DDCV//Dmax	,	0 Freelington marriantin	Marral, 000, 444, 2000
Tetanus-diphtheria2°C and 8°C (36°F and (Tenivac)0.5ml intramuscularlySanofi Pasteur 800-822- 2463Tetanus-diphtheria-2°C and 8°C (36°F and0.5ml intramuscularlySanofi Pasteur 800-822-		,	,	IVIETCK 800-444-2080
(Tenivac)46°F)2463Tetanus-diphtheria-2°C and 8°C (36°F and 0.5ml intramuscularlySanofi Pasteur 800-822-	·	,	,	Sanofi Pasteur 800-822-
<b>Tetanus-diphtheria-</b> 2°C and 8°C (36°F and 0.5ml intramuscularly Sanofi Pasteur 800-822-	· ·	,	0.5mm micramuscularly	
	· · · · · · · · · · · · · · · · · · ·	· '	0.5ml intramuscularly	
	pertussis (Adacel)	46°F)		2463

	CHAPTER 17
ATTACHMENT A	PAGE 7 OF 9

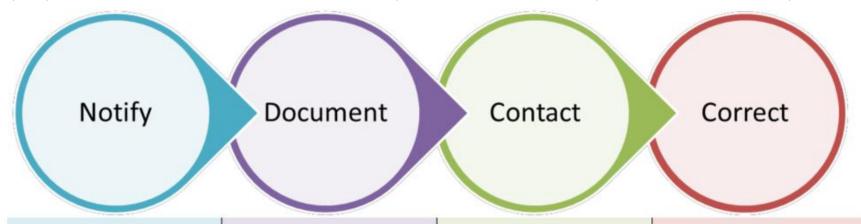
#### ATTACHMENT A Vaccine Inventory Guide

Varicella zoster (Shingrix)	Store both adjuvant and lyophilized vaccine 2°C and 8°C (36°F and 46°F)	After reconstitution with manufacturer diluent, give immediately or return to refrigerator for up to 6 hours.  0.5ml intramuscularly	GSK 866-475-8222
Influenza quadrivalent vaccine	2°C and 8°C (36°F and 46°F)	0.5ml intramuscularly	GSK (fluarix) 866-475- 8222 Sanofi Pasteur (Flublok) 800-822-2463
Influenza vaccine, adjuvanted (Fluad)	2°C and 8°C (36°F and 46°F)	0.5ml intramuscularly	Seqirus 855-358-8966
Influenza vaccine, high dose (Fluzone)	2°C and 8°C (36°F and 46°F)	0.7ml intramuscularly	Sanofi Pasteur 800-822- 2463

<sup>\*\*</sup>Document information for any vaccines used at RHC not included in this attachment

# ATTACHMENT B Handling a Temperature Excursion in Your Vaccine Storage Unit

Any temperature reading outside recommended ranges is considered a temperature excursion. Identify temperature excursions quickly and take immediate action to correct them. This can prevent vaccine waste and the potential need to revaccinate patients.



- Notify the primary/back-up vaccine coordinator immediately or report the problem to a supervisor.
- Notify staff by labeling exposed vaccines, 'DO NOT USE', and quarantine them. Do not discard these vaccines and move them into a unit that is operating within the recommended temperature range.
- Document details of the temperature excursions. Include:
  - · Date and time
  - · Description of the event
  - Length of time vaccine may have been affected
  - · Vaccines affected

- ➤ Call the Vaccine Manufacturer to discuss the temperature excursion.
- Be prepared to answer questions about what caused the incident and review the temperature log.
- If the data logger alarms repeatedly, do not dismiss the alarm until you have determined and addressed the cause.
- > Check the basics, including:
  - Power supply
  - Unit door(s)
  - Thermostat setting
  - Ice build-up in freezers
- If you believe the storage unit has failed, implement emergency vaccine SOP.
- Never allow vaccines to remain in a nonfunctioning unit that is out of temperature range.