

Vaccine Management Plan Template



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Contact List

Contact List			
	Vaccine Co	ordinators	
Vaccine Coordinators (Name/Title)	Phone Number (home, cell)	Alternate Phone Number (home, cell)	Email Address
Primary:			
Secondary:			
Alternate (back-up):			
	Resources (Contact List	
Resources	Phone Number	Emai	l Address
Local Health Department (LHD)			
OSDH Imms Service			
Additional Resources	Company / Entity Name	Phone Number	Email Address
Electric/Power/ Utility Company			
Refrigerator repair			
Freezer repair			
Data logger repair/recalibration			

Oklahoma Immunization Routine Vaccine Storage and Handling Plan

Instructions: All Oklahoma Immunization enrolled sites are responsible for routine management of vaccine inventory. Once completed, this template will serve as the required <u>Routine</u> Vaccine Storage and Handling Plan.

This plan should be reviewed **annually** or whenever there are changes to the signing clinician, vaccine coordinators, or vaccine storage equipment. The most current <u>Routine</u> Vaccine Storage and Handling Plan will be reviewed during Oklahoma Immunization Program Compliance Site Visits.

A copy of this plan, along with the <u>Emergency</u> Vaccine Storage and Handling Plan, must be posted on or near all refrigerators and freezers that store vaccine.

Clinic Name:	Clinic Address:
PIN:	Email Address:
Telephone number:	Fax Number:
Signing Clinician or Equivalent:	Primary Vaccine Coordinator:
Back-up Vaccine Coordinator:	Alternate Back-up:
Person(s) Responsible for Monthly Vaccine Count:	Person Responsible for Monthly Vaccine Reporting and Ordering:
Person Responsible for Rotating Vaccine Inventory:	Person Responsible for Receiving and Storing Vaccine Shipments:
Routine Vaccine Storage and Handl	ing Plan reviewed and updated by:
Name:	Title:

Signature:

Date of Last Review:

Oklahoma Immunization Procedures for Routine Storage and Handling of Vaccine Temperature Monitoring

	is responsible for monitoring data logger(s)
and recording temperatures of all vac	cine storage units.
In their absence,	is responsible for
monitoring and recording temperatur	res.

- A Temperature Log must be posted on or near all units storing vaccine.
- Staff are required to record min/max temperatures and current temperature at least once daily, preferably in the morning.
- Results of each temperature check must be documented on the *Temperature Log*. The time (hour and minute) and the initials of the staff member monitoring/recording the information must be documented on the form.
- Do not round the temperatures up or down record only the number to the left of the decimal point.
- If an out-of-range temperature is observed, immediately contact your Immunization Field Consultant and complete "Vaccine Storage Incident Report (VSIR)".

Vaccine Storage

- Clinics enrolled in the Oklahoma Immunization VFC Program are required to have the appropriate equipment to store vaccine that will maintain proper temperatures.
- Refrigerator/freezer units must be large enough to hold VFC and private vaccine during back-to-school or flu season without crowding.

- In order of preference, OSDH recommends the use of a:
 - 1) pharmaceutical, purpose-built unit,
 - 2) stand-alone refrigerator and stand-alone freezer, or
 - 3) House-hold combination unit, using only the refrigerator section unless the refrigerator and freezer compartments have separate thermostat controls (they must have separate exterior doors). A stand-alone freezer must be used when using a combination unit for refrigerated vaccine.
- Small combination refrigerator-freezer units outfitted with a single external door (dorm-style) are <u>never</u> allowed for the storage of vaccine.
- The refrigerator compartment must maintain temperatures between 36°F and 46°F (2°C and 8°C) for vaccine viability.
- The freezer compartment must maintain temperatures between -58°F and +5°F (-50°C and -15°C).
- Place water bottles (labeled "Do Not Drink") on the top shelf, under the cold air vent, on the floor of the unit, in the door, along both sides of the walls, and at the back of the refrigerator.
 - Water bottles are not recommended for certain pharmaceutical and purpose-built units. Follow the manufacturer's guidance in those instances.
- Place frozen water bottles along both sides of the walls, at the back, on the floor, and in the door of the freezer.
- The ultra-cold freezer must maintain temperatures between -112°F and -76°F (-80°C and -60°C).
- Diluents that are not packaged with vaccine may be stored outside of the storage unit or in the door of the refrigerator.DO NOT freeze diluent.
- Do not store food or drinks in the same refrigerator or freezer as vaccine.
- Do not store lab specimens on the same shelf or above vaccine. Store specimens below vaccine or in a separate storage unit.
- Refrigerators and freezers storing vaccine must be plugged directly into a wall outlet with a plug guard installed. Multi-strip outlets are not allowed.

Vaccine	Shipping	and Rece	eiving	Procedures

•_		is responsible for receiving and storing	3
	vaccine shipments. In their absence,		is
	responsible for receiving and storing v	accine shipments.	

- Staff must ensure that an accurate shipping address and delivery hours are entered into the Oklahoma State Immunization Information System (OSIIS).
- Staff must always accept vaccine shipments in a timely manner. Never refuse or return vaccine shipments without specific instructions from OSDH.
- Oklahoma Immunization Unit recommends all sites have a protocol to ensure the
 vaccine is stored immediately and appropriately upon arrival. The following steps must
 be taken when a vaccine shipment arrives:
 - Check the vaccine received against the packing list to verify all vaccines have been received.
 - Verify the packing list against the order placed in OSIIS once the vaccine has been properly stored. Receive the order in OSIIS.
 - Ensure adequate diluent is included for vaccines requiring reconstitution.
 - IMMEDIATELY contact the OSDH if vaccine or diluent was ordered and not received. Frozen vaccines, MMRV and Varicella will be shipped directly from the manufacturer.
 - O Place vaccine in the appropriate storage unit immediately.
 - Ensure vaccines with longer expiration dates are stored behind shorterdated vaccines. This ensures short-dated vaccine is used first.
 - If the data logger or temperature monitoring strip in the package indicates or if staff suspect that the cold chain has been compromised, staff should immediately:
 - Place the back-up data logger probe in the shipment, near the vaccine, and put the lid back on it, to gain the current temperature. Check it frequently to see when the temperature stabilizes.
 - Store questionable shipments appropriately, and immediately contact OSDH at 405-426-8580. A determination will be made is vaccine is viable.

Vaccine Ordering Procedures

	is responsi	hla t	or ord	arına və	CCIDA
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- All vaccine orders are submitted in OSIIS.
- Staff are required to enter in OSIIS all vaccines received, doses transferred, expired/wasted vaccine, doses administered, and a physical count of all VFC vaccines in their inventory each month regardless of whether an order is placed.
- Staff are responsible for contacting OSDH/IFC to update provider information, including delivery address, days and hours available to receive vaccine shipments, and primary and back- up contact information.

Inventory Control including stock rotation

inv	is responsible for managing VFC vaccine rentory.
	is responsible for reporting vaccine received,
va	ccine transferred, vaccine loss, and physical count in OSIIS each month.
Va	ccine with the shortest expiration date must be used first.
	aff should to notify their IFC 60-90 days prior to the vaccine expiration date. ss (expired, spoiled, and wasted vaccine)
Sta	aff are required to follow the procedures listed below when a vaccine loss occurs:
0	is responsible for completing and submitting the <i>Vaccine</i> Return or adjustment in OSIIS.
0	Remove expired/spoiled vaccine from the other vaccine in the storage unit immediately. Label "DO NOT USE" and complete a vaccine return in OSIIS.
0	If vaccine is lost to a storage incident then the completed VSIR must be printed are signed by the signing clinician who signed the Oklahoma Immunization Agreemed or a prescribing authority that is listed on the Oklahoma Immunization Agreemed and sent to your IFC for viability determination for the vaccine.
	aff are to follow these procedures for returning expired or spoiled ccine:
	ccine:is responsible for returning expired or spoiled
va o	is responsible for returning expired or spoiled vaccine.
va	ccine:is responsible for returning expired or spoiled
va:	is responsible for returning expired or spoiled vaccine. Complete the VSIR as indicated above and submit to your IFC for spoiled vaccine. Once the return is processed, your primary vaccine coordinator will
o <u>.</u>	is responsible for returning expired or spoiled vaccine. Complete the VSIR as indicated above and submit to your IFC for spoiled vaccine. Once the return is processed, your primary vaccine coordinator will receive a shipping label via email. Staff must ensure that only vaccines listed on the VSIR or on a vaccine return are included in the box for return.
va: o _ o	is responsible for returning expired or spoiled vaccine. Complete the VSIR as indicated above and submit to your IFC for spoiled vaccine. Once the return is processed, your primary vaccine coordinator will receive a shipping label via email. Staff must ensure that only vaccines listed on the VSIR or on a vaccine return are included in the box for return. A copy of the packing slip must be included in each box when returning expired or

• You must wait until UPS returns to your office with the next delivery to return the box with the expired or spoiled vaccines; otherwise, charges may be incurred.

Oklahoma Immunization Emergency Vaccine Storage and Handling Plan

Instructions: All Oklahoma VFC Immunization enrolled sites are responsible for accurate management of their vaccine inventory in the event of an emergency. Once completed, this template will serve as the recommended <u>Emergency</u> Vaccine Storage and Handling Plan.

You should review and update this plan **annually** or more frequently if there are any changes to the plan, or changes in staff responsible for vaccine management, storage and handling. The most current <u>Emergency</u> Vaccine Storage and Handling Plan will be reviewed during VFC Immunization Compliance Site Visits.

A copy of this plan, along with the <u>Routine</u> Vaccine Storage and Handling Plan, must be posted on or near all refrigerators and freezers that store VFC vaccine.

Clinic Name:	Clinic Address:
VFC PIN (if	Email Address:
applicable):	
Telephone Number:	Fax Number:
Signing Clinician or Equivalent:	Primary Vaccine Coordinator:
Back-up Vaccine Coordinator:	Alternate Back-up:
Person(s) Responsible for Monthly	Person Responsible for Vaccine
Vaccine Count:	Monthly Reporting and Ordering:
Person Responsible for Rotating Vaccine Inventory:	Person Responsible for Receiving and storing Vaccine Shipments:

Emergency Vaccine Storage and Handling Plan reviewed and updated by:

Name:	Title:
Signature:	Date of Last Review:

Location vaccines will be transferred to in case of emergency:

Location Name:	Contact Person at Receiving Location:
Address:	Telephone Number:
VFC PIN (if	Second Person at Receiving
applicable):	Location:
Is there a Temperature Monitoring	Is there adequate space to store the
device for the Refrigerator and	vaccine during an emergency?
Freezer?	Yes No
Yes No	<u> </u>
Is there a generator?	Date of Agreement:
□ Yes No	
Emergency Vaccine Storage and Handlin	ng Plan reviewed and updated by:
Name:	Title:
Signature:	Date of Last Review:

Oklahoma Immunization Procedures for <u>Emergency</u> Storage and Handling of Vaccine

•	Identify a responsible person and a responsible back-up person who
	will enact the Emergency Vaccine Storage and Handling Plan.
	Include contact information, such as home, office, and cell phone
	numbers for each person.
	The person responsible for enacting the Emergency Vaccine Storage
	and Handling Plan is

and Handling Plan is _______. The back-up person responsible for enacting the Emergency Storage and Handling Plan is ______.
Identify an emergency contact and storage location to take the VFC vaccine for storage. The emergency storage location must have

- vaccine for storage. The emergency storage location to take the VPC vaccine for storage. The emergency storage location must have appropriate vaccine storage equipment capable of maintaining temperatures within acceptable ranges, as well as adequate space to accommodate the vaccine inventory at the busiest time of the year (e.g. flu or back-to-school season) without crowding. Temperatures for storage units are required to be monitored and recorded, per OSDH/CDC guidelines. A location with a power generator or other alternate source of power, such as a hospital or pharmacy is preferable.
- Contact the emergency storage location for their approval before including them on your plan. List the contact person(s) and phone number(s) on your plan. Consider locating a back-up location in case the primary emergency storage location is unavailable or unable to store vaccines.
- Using the emergency vaccine storage and handling plan checklist for refrigerated and frozen vaccine:
 - o Document the time the emergency/power outage occurs.
 - o Document the temperature of the vaccine storage units before removing any vaccine for transportation.
 - Review how refrigerated vaccine should be packed for transport, and pack them using only approved storage units.

- o Insert a certified and calibrated data logger probe in the center of the vaccine storage unit, and note the time and temperature when the vaccine is placed in the transport containers. Before storing the vaccine inside of the receiving emergency storage unit, document the temperature of that storage unit.
- o Conduct an inventory of the vaccine as you move it to the transport container and record the information:
 - Lot number,
 - Number of doses of each vaccine, and
 - Expiration dates

You must follow all guidance provided by VFC/CDC when transferring vaccines in the event of an emergency.

In the table below, provide the information where you will obtain the necessary items for <u>emergency</u> transport of vaccine and the appropriate contact information.

- Do not use frozen gel packs or coolant packs from vaccine shipments to pack refrigerated/frozen vaccines.
- Dry ice is only to be used to transport Pfizer COVID-19 vaccine when in ultra-cold state.
- Do not use dry ice to keep normal freezer temperatures for any other vaccine, even if for temporary storage.

Emergency Needs:	Location in office:
Portable Refrigerator: (Optional)	
Portable Freezer: (Optional)	
Cooler(s):	
Frozen Water Bottles:	
Bubble-wrap / Corrugated cardboard:	

VaxiPac™ w/Bricks:	

Emergency Vaccine Storage and Handling Plan Checklist: Refrigerated Vaccine

Contact with OSDH/IFC made prior to transport by:		
Date	e: Time: AM PM	
Person Transporting Vaccine:		
	Transport of REFRIGERATED Vaccine	
	Assemble packing supplies. Container used to transport refrigerated vaccines: Portable fridge Cooler Other supplies needed if using a cooler: Conditioned frozen water bottles* Certified, calibrated data logger Packing material (2" of bubble wrap or crumpled paper and two pieces of cardboard that is cut to cooler size) * Frozen water bottles that are not "conditioned" can freeze vaccines. To "condition" frozen water bottles, remove them from the freezer and immerse in a sink of water or under running water until the ice spins freely in the bottle.	
	Spread a layer of conditioned water bottles at the bottom of the cooler. Cover the conditioned water bottles with a piece of cardboard, cut to the size of the cooler. Cover with a 2" layer of bubble wrap or crumpled paper.	
	Stack vaccine boxes on the bubble wrap or crumpled paper. Vaccines must not touch the conditioned water bottles in the cooler.	
	Place the data logger probe with vaccines.	
	Cover the vaccine with 2" layer of bubble wrap or crumpled paper. Add a piece of cardboard, cut to the size of the cooler. Add conditioned water bottles to cover the cardboard.	
	Fill the cooler to the top with bubble wrap or crumpled paper.	
	Place the data logger display on top of the bubble wrap, crumpled paper, or outside the cooler.	

Emergency Vaccine Storage and Handling Plan Checklist: Refrigerated Vaccine (Continued)

Contact with OSDH/IFC made prior to transport by:					
Date	e: Time: AM PM				
Pers	Person Transporting Vaccine:				
Transport of REFRIGERATED Vaccine (Continued)					
	Include a list of the vaccines that are in the container.				
	Record temperatures on a Temperature Log prior to transport. Temperature of storage unit when the vaccines are removed: C F Time vaccines were removed from storage unit : AM PM Temperature of transport container when the vaccines were placed inside: C F				
	Record temperatures on a <i>Temperature Log</i> upon arrival at the emergency storage location. Temperature of transport container when the vaccines are removed: □ C □ F Time vaccines were removed from transport container : □ AM □ PM Temperature of storage unit when the vaccines were placed inside: □ C □ F				

Emergency Vaccine Storage and Handling Plan Checklist: Frozen Vaccine

Contact with OSDH/IFC made prior to transport by:		
Date:		Time: AM PM
Pers	son Transporting Vaccine:	
Transport of FROZEN Vaccine		
	Assemble packing supplies. Container used to transpor	
	□ Portable freezer□ VaxiPac™□ Cooler	
	Other supplies needed if us	ing a cooler:
	□ Frozen water bottles.□ Certified, calibrated dat too).	a logger (to be used with VaxiPac™
	_	bubble wrap/paper and two
		is cut to the the cooler size).
	Do not neeze	diluent during transport
If a <u>cooler</u> is used:		
	cooler. Cover the frozen wa	ater bottles on the bottom of the ster bottles with a piece of cardboard, r, and a 2" layer of bubble wrap or
	Stack vaccine boxes on the Vaccines must not touch the	bubble wrap or crumpled paper. e frozen water bottles.
	Place the data logger probe	e with vaccines.
	•	of bubble wrap or crumpled paper. cut to the size of the cooler. Add er the cardboard.
	Fill the cooler to the top wi	th bubble wrap or crumpled paper.
	Place the data logger displace crumpled paper, or outside	ry on top of the bubble wrap, the cooler.

Emergency Vaccine Storage and Handling Plan Checklist: Frozen Vaccine (Continued)

Contact with OSDH/IFC made prior to transport by:		
Date:		Time: AM PM
Pers	on Transporting Vaccine:	
	Transport of FROZEN	Vaccine (Continued)
	If a <u>VaxiPa</u>	<u>c</u> ™ is used:
	Pack vaccine in accordance with manufacturer instructions (place one freezer brick on the bottom, followed by vaccine and probe, followed by four more freezer bricks).	
	Include data logger probe with vaccines. Place the data logger display outside the VaxiPac™.	
For <u>all</u> transport of frozen vaccine:		
	Include a list of the vaccines	that are in the container.
	Record temperatures on a <i>Ten</i> transport.	nperature Logs prior to
	Temperature of storage unit \square \square \square \square \square \square	when the vaccines are removed:
	Time vaccines were removed to □ AM □ PM	from <u>storage unit</u> :
	Temperature of transport co placed inside: C F	ntainer when the vaccines were
	Record temperatures on a tem emergency storage location.	perature log upon arrival at the
	Temperature of transport co removed:	ntainer when the vaccines are
	□ C □ F	from tunnanout containou
	Time vaccines were removed : □ AM □ PM	rom <u>transport container</u> :
	Temperature of emergency st were placed inside:	orage unit when the vaccines
	□ C □ F	

VaxiPac™ Vaccine Transport

- ☐ Do Not Use dry ice. Most manufacturers do not recommend transporting vaccines on dry ice as it may expose the vaccine to temperatures below -58° F.
- □ A VaxiPac[™] is an approved method for transporting frozen vaccine that does not short date the product. The VaxiPac[™] can reliably maintain an average temperature between $+5^{\circ}$ F and -58° F when used with either VaxiSafe[™] (-20°C) or VaxiSafe[™](-15°C) frozen bricks. Refer to the VaxiPac[™] manual for specific instructions.
- ☐ If vaccine is not transported in a VaxiPac[™], then document EXPLICITLY:
- 1) time storage began; 2) time storage ended; and 3) storage temperatures under which the vaccine was kept for this period of time.

Your IFC should be called before discarding frozen vaccine that has been kept under less than ideal storage conditions.



Resources: Web content- Microsoft Word - Varicella Web Guide 3 .doc (texas.gov), Photo - AcuTemp PX1L (pharmaceuticalonline.com)

