

Temperature Log for Refrigerator – Fahrenheit

DAYS 1-15

Monitor temperatures closely!

- 1. Write your initials below in "Staff Initials," and note the time in "Exact Time."
- 2. If using temperature monitoring device (TMD; digital data logger recommended) that records min/max temps, document min/max once each workday, preferably in the morning. If using TMD that does not record min/max temps, document current temps twice, at beginning and end of each workday.
- 3. Put an "X" in the row that corresponds to the refrigerator's temperature.
- 4. If any out-of-range temp, see instructions to the right.
- 5. After each month has ended, save each month's log for 3 years, unless state/local jurisdictions require a longer period

Month/Year	VFC PIN or other ID #	Page 1 of 3
Facility Name		

Take action if temp is out of range - too warm (above 46°F) or too cold (below 36°F).

- 1. Label exposed vaccine "do not use," and store it under proper conditions as quickly as possible. Do not discard vaccines unless directed to by your state/local health department and/or the manufacturer(s).
- 2. Record the out-of-range temps and the room temp in the "Action" area on the bottom of the log.
- 3. Notify your vaccine coordinator, or call the immunization program at your state or local health department for guidance.
- 4. Document the action taken on the "Vaccine Storage Troubleshooting Record" on page 3.

Day of Month		1	1	2	:	3	4		5		6	7		3	!	9	1	0	1	1		12	1	3	1	4	1	15
Staff Initials																												
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Write any out-of-rang temps (above 46°F or below 36°F) here:	е																											
Room Temperature																												

If you have a vaccine storage issue, also complete "Vaccine Storage Troubleshooting Record" found on page 3.

Adapted with appreciation from California Department of Public Health



Temperature Log for Refrigerator – Fahrenheit

DAYS 16-31

Monitor temperatures closely!

- 1. Write your initials below in "Staff Initials," and note the time in "Exact Time."
- 2. If using temperature monitoring device (TMD; digital data logger recommended) that records min/max temps, document min/max once each workday, preferably in the morning. If using TMD that does not record min/max temps, document current temps twice, at beginning and end of each workday.
- 3. Put an "X" in the row that corresponds to the refrigerator's temperature.
- 4. If any out-of-range temp, see instructions to the right.
- 5. After each month has ended, save each month's log for 3 years, unless state/local jurisdictions require a longer period.

Month/Year	VFC PIN or other ID#	Page 2 of 3
Facility Name		

Take action if temp is out of range - too warm (above 46°F) or too cold (below 36°F).

- 1. Label exposed vaccine "do not use," and store it under proper conditions as quickly as possible. Do not discard vaccines unless directed to by your state/local health department and/or the manufacturer(s).
- 2. Record the out-of-range temps and the room temp in the "Action" area on the bottom of the log.
- 3. Notify your vaccine coordinator, or call the immunization program at your state or local health department for guidance.
- 4. Document the action taken on the "Vaccine Storage Troubleshooting Record" on page 3.

Day of Month	1	6	17		18	19	20	21	22	23	24	25	26	27	28	29	30	31
Staff Initials																		
Exact Time	АМ	PM	AM	PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM
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Write any out-of-range temps (above 46°F or below 36°F) here:																		
Room Temperature																		

If you have a vaccine storage issue, also complete "Vaccine Storage Troubleshooting Record" found on page 3.

Adapted with appreciation from California Department of Public Health

Technical content reviewed by the Centers for Disease Control and Prevention www.immunize.org/catg.d/p3037F.pdf • Item #P3037F (8/18)

Vaccine Storage Troubleshooting Record (check one) □ **Refrigerator** □ **Freezer**

Page 3 of 3

Use this form to document any unacceptable vaccine storage event, such as exposure of refrigerated vaccines to temperatures that are outside the manufacturers' recommended storage ranges. A fillable troubleshooting record (i.e., editable PDF) can also be found at www.immunize.org/clinic/storage-handling.asp.

Date & Time of Event If multiple, related events occurred, see Description of Event below.	Storage Unit Tempera at the time the problem wi	ature as discovered	Room Temperature at the time the problem was discovered	Person Completing Report				
Date:	Temp when discovered:		Temp when discovered:	Name:				
Time:	Minimum temp:	Maximum temp:	Comment (optional):	Title:	Date:			
 Inventory of affected vaccines, inc 	opened?) event and last documented rea luding (1) lot #s and (2) wheth was in the storage unit? For ex n any storage problems with th	nding of storage temperaturer purchased with public (for ample, were there water book is unit and/or with the affection	re in acceptable range (2° to 8°C [36° to 46°F] for refrige or example, VFC) or private funds (Use separate sheet ottles in the refrigerator and/or frozen coolant packs in	if needed, but maintain the inventory with this	troubleshooting record.)			
Action Taken (Document thorou	ghly This information is critic	cal to determining whethe	er the vaccine might still be viable!)					
	olaced in proper storage conditi e manufacturer[s].) incident? (For example, superv	ions? (Note: Do not discard	d the vaccine. Store exposed vaccine in proper conditio	ns and label it "do not use" until after you can	discuss with your state/			
Results • What happened to the vaccine? W	as it able to be used? If not, wa	s it returned to the distribu	tor? (Note: For public-purchase vaccine, follow your sta	ate/local health department instructions for va	ccine disposition.)			

Vaccine Storage Troubleshooting Record (check one) ✓ Refrigerator ☐ Freezer

Use this form to document any unacceptable vaccine storage event, such as exposure of refrigerated vaccines to temperatures that are outside the manufacturers' recommended storage ranges. A fillable troubleshooting record (i.e., editable pdf) can also be found at www.immunize.org/clinic/storage-handling.asp

Ifn	ate & Time of Event nultiple, related events occurred, Description of Event below.	Storage Unit Tempera at the time the problem wa		Room Temperature at the time the problem was discovered		
Da	te:(see below)	Temp when discovered: 4:	5°F	Temp when discovered: 77°F	Name: Nancy Nurse	
Tir	ne: (see below)	Minimum temp: 38°F	Maximum temp: 53°F	Comment (optional): temp is approx	Title: VFC Coordinator	Date: 6/26/18

Description of Event (If multiple, related events occurred, list each date, time, and length of time out of storage.)

- General description (i.e., what happened?)
- Estimated length of time between event & last documented reading of storage temperature in acceptable range (2° to 8°C [36° to 46°F] for refrigerator; -50° to -15°C [-58° to 5°F] for freezer)
- Inventory of affected vaccines, including (1) lot #s and (2) whether purchased with public (for example, VFC) or private funds (Use separate sheet if needed, but maintain the inventory with this troubleshooting record)
- At the time of the event, what else was in the storage unit? For example, were there water bottles in the refrigerator and/or frozen coolant packs in the freezer?
- · Prior to this event, have there been any storage problems with this unit and/or with the affected vaccine?
- · Include any other information you feel might be relevant to understanding the event.

At 8 am on Tuesday (6/26/18) morning when clinic opened, identified 4 temperature excursions over the weekend in refrigerator with readings as high as 54°, 50°, 49° & 53°F in primary vaccine storage unit #1. Recordings taken every 15 min on calibrated digital data logger overnight. Data logger probe in glycol located in middle of refrigerator with vaccines.

Total time out of range: approximately 3 hrs — maximum temp 53°F (see attached document of continuous temp readings)

Inventory of vaccines: see attached

Water pottles in refrigerator door. No vaccine stored in freezer. No problems with storage unit prior to Saturday night. Thunderstorms in area over weekend may have affected power.

Action Taken (Document thoroughly. This information is critical to determining whether the vaccine might still be viable!)

- When were the affected vaccines placed in proper storage conditions? (Note: Do not discard the vaccine. Store exposed vaccine in proper conditions and label it "do not use" until after you can discuss with your state/local health department and/or the manufacturer[s].)
- · Who was contacted regarding the incident? (For example, supervisor, state/local health department, manufacturer—list all.)
- IMPORTANT: What did you do to prevent a similar problem from occurring in the future?

Vaccines currently stored appropriately at 41°F. Refrigerator and vaccines labeled "Do Not Use."

My State Immunization Program confacted at 8:30 am. Spoke with Victor Vaccine. Provided Victor with details of event and list of vaccines. Vaccine to remain guarantined until we hear back from Victor.

Called electric company and confirmed 2 short power outages during weekend.

Checked refrigerator seals — called refrigerator maintenance company to replace seals.

Checked plug on unit — placed tape over plug to prevent inadvertent dislodging. Plan to purchase plug guard.

Plan to follow up with Immunization Program on data loggers with alarms that could be sent to coordinator and back-up phones.

Results

• What happened to the vaccine? Was it able to be used? If not, was it returned to the distributor? (Note: For public-purchase vaccine, follow your state/local health department instructions for vaccine disposition.)

Late on Monday, I talked with Victor regarding continued use of vaccine. Victor had checked with manufacturers which confirmed that vaccine is acceptable for use. He told me that vaccine could therefore be removed from guarantine. I discussed the entire situation with Susie Supervisor and Dr. Director (clinic medical director) who agreed that we could put vaccine back in use.

Vaccine Storage Troubleshooting Record (check one) ✓ Refrigerator □ Freezer

Use this form to document any unacceptable vaccine storage event, such as exposure of refrigerated vaccines to temperatures that are outside the manufacturers' recommended storage ranges. A fillable troubleshooting record (i.e., editable pdf) can also be found at www.immunize.org/clinic/storage-handling.asp

Date & Time of Event If multiple, related events occurred, see Description of Event below.	Storage Unit Tempera at the time the problem w		Room Temperature at the time the problem was discovered	Person Completing Report	
Date: 7/16/2018	Temp when discovered: 2	8°F	Temp when discovered: 77°F	Name: Nancy Nurse	
Time: 8:00 am	Minimum temp: 28°F	Maximum temp: 42°F	Comment (optional): temp is approx	Title: VFC Coordinator	Date: 7/17/18

Description of Event (If multiple, related events occurred, list each date, time, and length of time out of storage.)

- General description (i.e., what happened?)
- Estimated length of time between event & last documented reading of storage temperature in acceptable range (2° to 8°C [36° to 46°F] for refrigerator; -50° to -15°C [-58° to 5°F] for freezer)
- Inventory of affected vaccines, including (1) lot #s and (2) whether purchased with public (for example, VFC) or private funds (Use separate sheet if needed, but maintain the inventory with this troubleshooting record)
- At the time of the event, what else was in the storage unit? For example, were there water bottles in the refrigerator and/or frozen coolant packs in the freezer?
- · Prior to this event, have there been any storage problems with this unit and/or with the affected vaccine?
- Include any other information you feel might be relevant to understanding the event.

When checked main clinic fridge (in lab) at 8:00 am on Tuesday, 7/17/2018, digital readout on data logger read 28°F. Data logger located in center of fridge with probe in glycol. Review of computer readings (taken every 15 minutes) showed steady drop in temps from 42°F at 8:15 pm (7/16/2018) to 28°F reading discovered when arrived at clinic on Tuesday morning (7/17/2018). Readings hit 34°F at 11 pm (7/16) and 32°F at 2 am (7/17). Total time out of recommended storage temps = 9 hours, with 6 hours at freezing or below (see attached document of continuous temp readings). Inventory of vaccines attached.

Water bottles in refrigerator door and crisper area. No vaccines stored in freezer. No recent adjustments to temp controls and no previous temp excursions noted with this refrigerator before 7/17.

Action Taken (Document thoroughly. This information is critical to determining whether the vaccine might still be viable!)

- · When were the affected vaccines placed in proper storage conditions? (Note: Do not discard the vaccine. Store exposed vaccine in proper conditions and label it "do not use" until after you can discuss with your state/local health department and/or the manufacturer[s].)
- · Who was contacted regarding the incident? (For example, supervisor, state/local health department, manufacturer—list all.)
- IMPORTANT: What did you do to prevent a similar problem from occurring in the future?

Upon discovery, vaccines marked "Do Not Use" and stored in 2nd clinic fridge (in exam room #3 at 41°F). Also placed "Do Not Use" note on main fridge in lab. Notified Surie Supervisor about the issue. Confacted Victor Vaccine at My State Immunization Program at 8:30 am. Provided Victor with details of event and list of vaccines in fridge. Victor said to maintain vaccines in 2nd fridge and that he would check with manufacturers to determine next steps.

Called Jim's Appliance Repair to examine fridge. Repairman found and replaced faulty thermostat in unit.

Reset data logger on center shelf in fridge with probe in glycol.

Results

What happened to the vaccine? Was it able to be used? If not, was it returned to the distributor? (Note: For public-purchase vaccine, follow your state/local health department instructions for vaccine disposition.)

After fridge thermostat repaired, monitored temps in empty fridge for 1 week, per state requirements. Fridge maintained 39°-41°F temps for entire week. Submitted repair documentation and data logger readings to Victor Vaccine for approval and ordered replacement vaccines. Victor had checked with manufacturers who confirmed that all vaccines in fridge EXCEPT MMR were no longer viable and should be returned per state policy guidelines. MMR may be used because pkg insert allows storage down to -58°F. Discussed entire situation with Susie Supervisor and clinic director, Dr. Director, who agreed on continued use of MMR. Will continue to monitor fridge closely to watch for pattern of temp fluctuations indicating potential problem with thermostat. If problems, confact Victor Vaccine for advice on purchasing new fridge meeting criteria for appropriate vaccine storage.