DATA LOGGER
EDUCATION
Montana Immunization Program

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Montana Data Logger Program

- Montana -
  - 1 million people
  - 150,000 square miles
  - 230-240 VFC Providers

- We provide data loggers to all VFC providers for their public vaccine storage units plus one backup data logger.

- VFC providers are required to use state-supplied data loggers and paper temperature logs unless they have an approved exemption.

- 825 Data Loggers
- 2 part-time staff

VFC 500TP
Control Solutions
Montana Immunization Program

- Purchase CDC-complaint loggers
- Distribute to providers
- Approve storage unit/data logger installations
- Data Logger and temperature excursion technical support
- Batteries, cradles
- No-fault replacement of broken, defective, malfunctioning devices

Montana VFC Providers

- Setup, install, and manage DLs according to our Data Logger Instruction Manual
- Fill out paper temperature logs according to requirements
- Have public vaccine storage units/data loggers approved before use
- Retain data logger data and paper temperature logs for three years
- Reimburse public vaccine dose-for-dose if wasted due to negligence, which includes data logger mismanagement.
<table>
<thead>
<tr>
<th>Year</th>
<th>Data Logger</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td>2011</td>
<td>VFC5000</td>
<td>Temp/humidity&lt;br&gt;Air temperature</td>
</tr>
<tr>
<td>2012</td>
<td>VFC6000</td>
<td>Temperature only&lt;br&gt;Alarm delay&lt;br&gt;Tall stand (buffer air)</td>
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<tr>
<td>2013 (CDC Rec.)</td>
<td>VFC5000TC</td>
<td>Glycol-buffered probe&lt;br&gt;Min/max w/ reset&lt;br&gt;Vaccine Incident Report&lt;br&gt;Approval process</td>
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<tr>
<td>2014</td>
<td>VFC5000TP</td>
<td>Improved probe connection&lt;br&gt;10 foot cord&lt;br&gt;One backup DL</td>
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<tr>
<td>2016</td>
<td>VFC5000TP</td>
<td>Recalibration</td>
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</tbody>
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VFC Provider Handbook - Policy

- Paper copy distributed
- E-version on website
- Custom and comprehensive
- Version Control
- High-Resolution Table of Contents

Data Logger Instruction Manual - Procedure
**Paper Temperature Logs**

- **Montana Immunization Program**
  - Refrigerator Temperature Log
  - Monitoring and Recording
  - Routine Monitoring
  - Out-of-Range Response
  - Best Practices

**Best Practices Poster**

1. **Store vaccine at ideal temperature: 40°F**
   - Vaccine Temperature & Best Practices for Refrigerated Vaccines - Montana
2. **Record daily temperatures**
   - Check and record the temperature and status (lights) of your data logger TWICE DAILY:
     - In the morning
     - Before leaving at the end of the day
3. **Take action if out of range!**
   - Public Vaccine: Report red lights and out-of-range temperatures immediately to the Immunization Program.
   - Private Vaccine: Call manufacturer directly with the following information:
     - Total time vaccine was out of range
     - Minimum or maximum temperature achieved

- **Best Practices**
  - Take your Data Logger and record temperatures accurately.
  - Make Time Stamps:
    - Initial the log when recording temperatures.
    - Leave if Stale: If a temperature was not recorded, leave the space blank.
Data Logger Basics

Training Webinar/Video

- Required viewing for new Vaccine Managers and Alternates
- Recording of our “VFC Hot Topics” webinar
- Mandatory Training Webinars/Videos
  - Wufoo quiz with a “secret password.”
  - (Creates database)
  - Hold orders or site contracts.
ON-LINE VACCINE INCIDENT REPORT

Vaccine Incident Report – MT Immunization Program

If submitting this report after business hours or on a weekend, follow the instructions below. We will respond the first thing the next business day.

1. Do not use or discard the affected vaccine.
2. Contact your VFC Vaccine Manager or Alternate (if primary is unavailable).
3. Quarantine the affected vaccine and post a clear “Do Not Use” sign (“Bag and Tag”).
4. If the situation is temporary, remedied within 1.5 hours, or already stabilized, keep the vaccine in its original storage unit with the door closed. Monitor Data Loggers closely and take action if temperatures go out of range (see #5).
5. If necessary, move the vaccine to an alternate storage location that holds proper temperatures and has temperature monitoring capability. Record the time you moved the vaccine and the temperature of the alternate storage unit.
6. If possible, download data logger data for the excursion. For instructions on downloading data logger data, see page 19 of our Data Logger Instruction Manual. If you cannot download your data, skip to Step 8 and still submit a report.
7. If necessary, reset and reinstall your data logger so that the storage unit with vaccine continues to be monitored. Use your backup data logger if necessary.
8. Complete and submit this form. Attach data logger files, if applicable. We will contact you as soon as possible. If you are submitting this form after business hours or on a weekend, we will contact you the next business day.

Questions? hhs121mt.gov 404-5690

• Send approval data
• Report data logger issues
• Report temperature excursions
  (red lights and/or out-of-range min/max/current)
• Request technical support

Advantages:
• One channel for contact (“ticketing” system)
• Easier to respond, document, and track
• Creates a database of providers, issues, storage units, temperature data etc.
• Allows data analysis
• Provides after-hours guidance
STORAGE UNIT/DATA LOGGER APPROVAL

Storage Unit Approval
The Immunization Program must approve all storage units and thermometers used to store and monitor VFC vaccine. To have a storage unit/thermometer approved, providers must submit:

- One week of temperature data using our online Vaccine Incident Report (See Section 14 and your Data Logger Instruction Manual for details)
- One week of paper temperature logs
- Storage unit make/model information.

This requirement applies to:

- New VFC providers
- Providers setting up a new VFC storage unit
- Providers reinstating a VFC storage unit after a repair
- Providers commissioning a new Data Logger or other program-compliant thermometer.

The Immunization Program reviews your temperature data and determines whether your storage unit and thermometers are ready for vaccine. Do not use the storage unit until it has been approved by the Immunization Program.

Ensures:
- Data loggers are installed properly
- Storage unit is able to hold vaccine storage temps
- Provider is able to manage the data loggers and submit VIR

Provides:
- Baseline data for the storage units.
- Database of storage units make/models
NEW PROVIDER EDUCATION

1. Enrollment packet with VFC Provider Handbook and Site Contract

2. Once we receive a signed Site Contract back, we send Data Logger package.

3. Send email requiring Vaccine Manager and Alternate to complete:
   • You Call the Shots - Vaccines for Children (fax certificate)
   • You Call the Shots - Vaccine Storage and Handling (fax certificate)
   • Data Logger Basics Video (submit quiz)

4. Provider installs data loggers.

5. Enrollment visit data logger training:
   1. Download and reset data
   2. Submitting Vaccine Incident Report (with approval data)
   3. Bookmark all the necessary webpages
Advantages and Disadvantages

Advantages

• Reduces burden on our VFC providers
• Everyone uses the same device
  • Ensures compliance (easier on site visit reviewers)
  • Training
  • Technical support
• Close monitoring of storage units
• Long history with the same device
  • We know the product
  • Provider competence high

Disadvantages

• Expensive - “The downside of being in early-adopter”
• Future funding is uncertain
• No longer on the cutting edge of technology
• Time-consuming for state-level VFC staff
  • Tracking, distributing devices
  • Technical support and responding to VIRs
  • Negotiating and managing purchase/recalibration contracts
  • Policing requirements