# Immunisation Update - 2020

25 August 2020

# Agenda – Immunisation Update 2020

## Introduction

**Presenters: NCIRS Deidre Brogan CNC and Dr Archana Koirala**

**Overview of pneumococcal disease and vaccines**
**Schedule changes and why**
**Case studies and scenarios dealing with the changes**

**Presenter: PHU George Truman**

**NBMLHD Report Card**

**Presenter: PHU Lisa Allchin and Denise Gibbons**

**PHU Update**

**Presenter: Georgina McHugh – NBMPHN**

**Importance of cold chain**



http://www.scienceclarified.com/scitech/Bacteria-and-Viruses/We-Are-Surrounded.html

# Scholarship Opportunity

**Are you a registered nurse providing vaccination for residents/staff in RACFs with GP support?**

**We are offering a full scholarship for the ACN Immunisations for Health Practitioners accredited course**

**https://www.nbmphn.com.au/Health-Professionals/Services/Immunisation-and-Antibiotics/Immunisation-Scholarships**

**Please contact Janice Peterson for further information 02 4708 8100**

https://scholarshipfellow.com/how-to-write-a-thank-you-letter-for-scholarships-guidelines-and-sample-letters/

# Certificate of Attendance

Thank you for attending Annual Immunisation Update 2020. We hope you enjoyed our event.
Please submit your questions or comments to: events@nbmphn.com.au.
In lieu of a Certificate of Attendance please retain this email as confirmation of your attendance at the Annual Immunisation Update, hosted by Wentworth Healthcare, provider of the Nepean Blue Mountains Primary Health Network.

Date: 25th August 2020
Time: 7 pm – 8:30 pm
Duration: 1.5 hours

GPs will be allocated 3 CPD Activity Points. Nurses and Allied Health Professionals are eligible for 1.5 hours of self-recorded continuing professional development.

Topics Covered:
• Overview of pneumococcal disease
• Overview of pneumococcal vaccines
• Schedule changes and why
• Case studies and scenarios dealing with the changes
• PHU Immunisation Update
• Regional Report Card
• Cold chain

# NCIRS

Deidre Brogan CNC and Dr Archana Koirala

# NBMLHD Report Card

PHU- George Truman

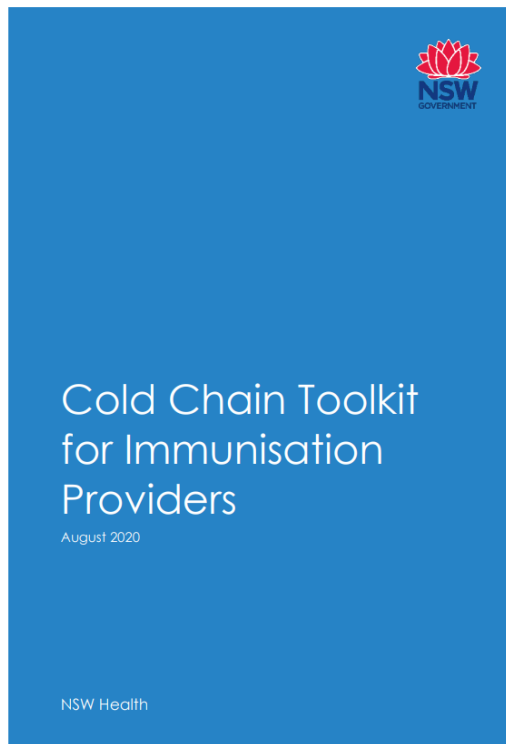# PHU - Update

Lisa Allchin and Denise Gibbons

# Importance of Cold Chain

Georgina McHugh August 2020

# Cold Chain Toolkit for Immunisation Providers



https://www.health.nsw.gov.au/immunisation/Pages/default.aspx

## Safe Vaccine Storage Checklist

Follow the principles of safe vaccine storage management to ensure safe and effective vaccines are given to your patients. Strive for 5°C and report ALL cold chain and light exposure breaches to your local public health unit on 1300 066 055.

☐ **Vaccine refrigerators** — **Purpose-built vaccine refrigerators (PBVR) are the only suitable option for vaccine storage.**

- If your practice does not have a PBVR you will be required to order a new PBVR.
- Domestic fridges and bar fridges are not built to store vaccines and must not be used for vaccine storage.

☐ **Vaccine Storage** — **Vaccines MUST be stored in their original packaging**

- Store vaccines in their original cardboard packaging as they are sensitive to UV light and temperature fluctuations.
- Vaccines must not touch the sides of the fridge
- Vaccines must not be stored on the floor of the fridge
- Annual vaccine storage self-audit completed and up to date.

☐ **Temperature monitoring** — **Vaccine fridge temperatures MUST be continuously monitored using a data logger**

- Data loggers **MUST** be set at 5 minute intervals with a report downloaded weekly and when a potential cold chain breach has been identified.
- Current, minimum and maximum temperatures **MUST** be manually recorded twice daily, every day the practice is open. Thermometer to be reset after temperatures are recorded.
- Review temperature of fridge before removing vaccines for administration.

☐ **Vaccine expiry** — **Rotate stock and discard expired vaccines**

- Check the vaccine expiry before administering vaccines and discard all expired vaccines.
- Regularly review stock and bring vaccines with the shortest dates to the front of the refrigerator so they are used first.

☐ **Staff education** — **Ensure ALL staff are trained in vaccine management**

- Provide regular vaccine management orientation and education training sessions for all staff.
- Ensure one member of staff is responsible for vaccine management and a back up person.
- The **NSW Health** Vaccine Storage and Cold Chain Management online training module may be used to train all staff that are responsible for vaccine storage and monitoring, visit https://nswhealth.seertechsolutions.com.au/public_content/HETICP/HETI/CCMWebv3/story_flash.html

For more information visit https://www.health.nsw.gov.au/immunisation

**APPENDIX 2:**
**Vaccine storage self-audit**

Immunisation service providers are required to use this checklist to carry out a self-audit at least once every 12 months, and more frequently if there have been problems with equipment or cold chain breaches. Documentation should be stored for future reference.

Print this checklist and use it as required.

**Self-auditing is important because:**
- it is part of routine quality assurance and risk management processes
- it enables staff to have confidence that they are providing a safe and effective vaccine.

*Print or photocopy this page and keep it as a record of an audit.*

| | |
|---|---|
| Nominated person responsible for vaccine management | |
| Nominated back-up person for vaccine management | |
| Make and model of refrigerator | |
| Date of self-audit | |
| Person conducting audit | |

National vaccine storage guidelines – Strive for 5

# Downloads

## National Vaccine Storage Guidelines 'Strive for 5', Appendix 2 - Vaccine Storage Self Audit

📄 **Download PDF** - 52 KB , 3 pages
📄 **Download Word** - 24 KB , 2 pages

We aim to provide documents in an accessible format. If you're having problems using a document with your accessibility tools, please contact us for help.

**Publication date:**

27 June 2019

**phn**
NEPEAN
BLUE MOUNTAINS
An Australian Government Initiative

**Wentworth Healthcare**
Blue Mountains | Hawkesbury | Lithgow | Penrith

## Managing a Cold Chain Breach

**NSW GOVERNMENT**

Check and record vaccine fridge temperatures twice daily

**If temperatures have gone below 2°C OR above 8°C**

ISOLATE VACCINES **AND** ALERT & DO NOT USE **AND** DO NOT DISCARD

Ensure vaccines can continue to be stored between +2°C to +8°C. Vaccines may need to be transferred to an alternative monitored fridge or cooler
*Record temperatures on the NSW Health Vaccine Cooler Temperature Chart available at www.health.nsw.gov.au/manage-ccb

**DOWNLOAD DATA LOGGER AND INVESTIGATE**

- Investigate cause
- Download and review data logger readings
- Review twice daily min/max temperature chart
- Identify if vaccines have been affected by a previous breach

**Temperature above +8°C to less than +12°C for less than 15 minutes?**

NO → **REPORT**

YES → Record temperatures. Reset min/max thermometer. Wait until fridge is within +2°C to +8°C. No further action required

**Government funded vaccines**

Report to the Public Health Unit (PHU)
**Business hours:** 1300 066 055
**After hours:** Isolate vaccines & contact PHU next business day

Complete and return the "Cold Chain Breach Reporting Form to the PHU and await advice
Download the CCB form at www.health.nsw.gov.au/ccb

**Private vaccines/medications**

For privately purchased vaccines and medications, contact the manufacturer for advice

For more information visit www.health.nsw.gov.au/manage-ccb

---



**NSW HEALTH**
## Vaccine Refrigerator Protocol

**NSW GOVERNMENT**

### REFRIGERATOR MONITORING

☑ **CHECK** refrigerator temperatures twice a day during operational hours and **aim for 5° C**

☑ **RECORD** the minimum, maximum and current temperatures on the NSW Health vaccine refrigerator temperature chart

☑ **RESET** the thermometer after recording temperatures

! **ACT** if temperatures are outside of the recommended temperature range of +2°C to +8°C or the fridge has alarmed. Follow the cold chain breach protocol steps below.

### ⊗ COLD CHAIN BREACH STEPS

1. **Take corrective ACTION** where possible. Is the refrigerator door closed, refrigerator plugged in/turned on. Contact engineer if a refrigerator malfunction is suspected.

2. **ISOLATE affected vaccines**/medicines and label **'DO NOT USE'**. Ensure vaccines can continue to be stored between +2°C to +8°C. Vaccines may need to be transferred to an alternative monitored refrigerator or cooler.

3. **REPORT** breach immediately to your manager/delegate Ph:

4. **DOWNLOAD the data logger** or review the back to base or automated temperature monitoring system and investigate potential cause and duration of breach.

5. **NOTIFY the public health unit** (1300 066 055) if temperature is <+2°C or > +8°C (excludes fluctuations up to +12°C ≤15 mins e.g. vaccine delivery). PHU will require cold chain breach reporting form, data logging and twice daily temperature readings to assess breach.

6. **DO NOT DISCARD** vaccines until advice is received.

ℹ **OTHER MEDICATIONS** - Notify facility Pharmacy Service provider. **Do NOT** use medications until advice is received from Pharmacy.

7. **DOCUMENT** all activity on the back of the *'NSW Vaccine Refrigerator Temperature Chart - Fortnightly'*, i.e. thermostat adjustment, restocking, power outage, data logger removal etc. **SUBMIT an IIMS/ims+** for breaches resulting in vaccine wastage or patient recall and revaccination.

Order the **NSW Vaccine Refrigerator Temperature Chart – Fortnightly** from Toll Stream Direct. **ORDER NUMBER: NH700227**

August 2020 © NSW Health. SHPN (HP NSW) 200495

**phn**
NEPEAN BLUE MOUNTAINS
An Australian Government Initiative

# Where to order more Cold Chain Breach Labels

**Additional labels can be ordered from:**

**Better Health Centre on (02) 9887 5450**

Providers with an AHPRA number will be taken to the Authorised Practice Provider Declaration page. Please answer the questions accurately by selecting Yes or No for each question. Enter the authorised practice provider name and AHPRA number and click Continue



# NSW Vaccine Centre
1300 656 132

**Home > Authorised Practice Provider Declaration**

## Authorised Practice Provider Declaration

**In order to receive Government-funded vaccines, I declare that:**

| | | |
|---|---|---|
| All vaccines will be administered according to NSW Health's vaccine eligibility criteria (previous page) and the NSW Immunisation Program Schedule | ○ Yes | ○ No |
| Each vaccine dose administered in this practice will be notified to the Australian Childhood Immunisation Register and/or the National HPV Vaccination Register (as required) | ○ Yes | ○ No |
| This facility complies with cold chain recommendations in the National Vaccine Storage Guidelines - Strive for Five | ○ Yes | ○ No |
| Vaccine fridge temperatures are monitored and recorded at least daily with a min/max thermometer. | ○ Yes | ○ No |
| In the event of a cold chain breach, I will call my local Public Health Unit for advice before taking any further action. | ○ Yes | ○ No |
| The vaccine fridge(s) temperature has/have been between +2°C and +8°C since the last vaccine order (this excludes excursions up to +12°C for less than 15 minutes when opening the fridge and excludes cold chain breaches that have already been notified to the Public Health Unit). | ○ Yes | ○ No |

Authorised Practice Provider*    **Name:** [        ]    **AHPRA Number:** [        ]

*Medical practitioner nominated by the Practice to receive vaccines under the NSW Poisons and Therapeutic Goods Regulation 2008.*

[ CONTINUE ]

Left sidebar:
Place an order
View your order history
Amend Delivery Address
View Contact Details
User Guide
Logout

**Logged in as:**
testcust
Sample Practice

To contact your Public Health Unit please call 1300 066 055

**Last logged in:**
Tuesday, 10 September 2013
11:38:31 AM

# Data logging and recording temps

## What information do data loggers provide?

Data loggers provide an accurate indication of vaccine refrigerator temperatures and can be used to map 'cold spots' or investigate problems. Loggers use a similar measuring principle to chart recorders; however, they record the data electronically. The data can be stored by the monitoring system and can also be downloaded to a computer.

The objective of data logging is to build up a 'temperature map' for the refrigerator (see Section 5.4 'Stabilising the vaccine refrigerator temperature'), to identify which areas are safe for vaccine storage. In particular, it is important to identify areas where vaccines could freeze.

**Twice-daily minimum and maximum temperatures must still be manually recorded as a timely alert to any breach in the cold chain.** If a data logger is used for routine temperature monitoring (instead of a minimum/maximum thermometer), it must have a visual display of minimum/maximum temperatures to allow twice-daily real-time readings to be viewed and manually recorded.

22

National vaccine storage guidelines – Strive for 5

Many data loggers can be programmed to alarm when a temperature outside the +2°C to +8°C range is recorded.

**All vaccine refrigerators should have a permanent data logger in place to continuously measure the refrigerator temperature at preset 5-minute intervals.**

**The data should be downloaded at least weekly, in addition to twice-daily minimum/maximum recordings.**

phn
NEPEAN
BLUE MOUNTAINS
An Australian Government Initiative

National Vaccine Storage Guidelines **3rd edition June 2019**

## Strive for 5
### Minimum/maximum vaccine refrigerator temperature chart

Australian Government — Department of Health

National Immunisation Program
A Joint Australian, State and Territory Government initiative

Location of refrigerator _____  Month _____  Year _____

| Day of month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Record max. temp

TOO WARM, TAKE IMMEDIATE ACTION
+12 +11 +10 +9 +8 +7 +6 +5 +4 +3 +2 +1 0 −1 −2

STRIVE FOR 5

TOO COLD, TAKE IMMEDIATE ACTION

Record min. temp

Initials

### Instructions for use
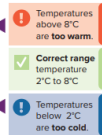
☑ **CHECK** temperatures twice a day in the morning and afternoon

**RECORD** and plot maximum, minimum and current temperatures on chart

**RESET** temperature monitoring device after recording temperatures

**ACT** if temperature out of range as per cold chain breach steps

| Date | |
|---|---|
| Audited by | |
| Cleaning date | |

### Take immediate corrective action and record on the other side of this chart

**COLD CHAIN BREACH STEPS (refer to Appendix 3 in *Strive for 5*)**

1. Immediately isolate the vaccines and prepare to transfer them into temporary monitored vaccine storage, if necessary. Start conditioning ice packs/gel packs.
2. Keep vaccines refrigerated between +2°C and +8°C for as long as possible, and label them 'Do not use' while preparing to transfer them.
3. Contact your state or territory health department as soon as possible (during business hours).
4. Do not discard any vaccine until advised to do so by your state or territory health department.
5. Take steps to correct the problem and to prevent it from recurring.
6. For privately purchased vaccines, contact the manufacturer for advice.
7. Record fridge temperature issues and actions on the flipside of this chart.
8. Determine if anyone has received compromised vaccine. Discuss your revaccination requirements with your state or territory health department.

! Temperatures above 8°C are **too warm**.

☑ Correct range temperature 2°C to 8°C

! Temperatures below 2°C are **too cold**.

Copies of this chart can be ordered or downloaded from the Australian Government Department of Health website: www.health.gov.au/immunisation

---

### Twice Daily Vaccine Fridge Temperature Chart (for purpose-built models only)

The acceptable temperature range is +2°C to +8°C but Strive for five! (+5°C). https://www.health.nsw.gov.au/immunisation/Pages/cold-chain-management.aspx
Please record the current, minimum and maximum temperatures twice daily the reset your thermometer after each recording.
**In the event of a cold chain breach: Contact your state or territory Public Health Unit as soon as possible (during business hours). Phone PHU on 4734 2022.**

MONTH _____  YEAR _____

| Date | Time - AM | Temperature Monitoring | | | Comments | Initials | Time - PM | Temperature Monitoring | | | Comments | Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Current | Min | Max | Example: VD | | | Current | Min | Max | | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |

https://www.health.nsw.gov.au/immunisation/Pages/cold-chain-management.aspx

# Questions?