

*Taddle Creek*

**MEDICAL DIRECTIVE**

**Family Health Team**

|               |   |                |            |
|---------------|---|----------------|------------|
| <b>Title:</b> | Administration of Vaccines/Injectable Substances, Laboratory Requisition for Immunity Testing and Prescribing of Hepatitis Vaccines | <b>Number:</b> | TCFHT-MD15 |
|---------------|---|----------------|------------|

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|-------------------------|------------------|---------------------|------------------|
| <b>Activation Date:</b> | 09-Sep-2014      | <b>Review Date:</b> | January 14, 2025 |
| <b>Next Review:</b>     | January 14, 2026 |                     |                  |

**Sponsoring/Contact Person(s)**  
*(name, position, contact particulars):*

Nazneen Patel, RN  
 790 Bay Street, Suite 522  
 Toronto, Ontario M5G 1N8  
 Tel: 416-591-1222

Dr. Shari Chung  
 790 Bay Street, Suite 300  
 Toronto, Ontario M5G 1N8 (Box 5)  
 Tel: 416-960-1366

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| <b>Order and/or Delegated Procedure:</b> | <b>Appendix Attached:</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes<br><b>Title:</b> |
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The implementers may, in accordance with the conditions identified in this directive:

- administer vaccinations and other injectable substances
- order bloodwork to test for immunity to vaccine-preventable diseases
- prescribe Hepatitis A and Hepatitis B vaccines

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| <b>Recipient Patients:</b> | <b>Appendix Attached:</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes<br><b>Title:</b> Appendix A – Authorizer Approval Form |
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Recipients must:

- Be active patients of a TCFHT primary care provider who has approved this directive by signing the Authorizer Approval Form
- Meet the conditions identified in this directive
- For immunizations and injectable substances, be 2 months of age or older and require one or more of the following vaccines/substances:
  - Diphtheria, Tetanus, Acellular Pertussis, Inactivated Poliovirus and *Haemophilus influenzae* type b **0.5ml IM**

- Pneumococcal Conjugate 15-valent **0.5ml IM**
- Rotavirus
  - Rotateq **2ml PO**
  - Rotarix **1.5 ml PO**
- Measles, Mumps and Rubella **0.5ml SC**
- Meningococcal Conjugate C **0.5ml IM**
- Meningococcal Conjugate ACYW-135 **0.5ml IM**
- Meningococcal B **0.5ml IM**
- Varicella **0.5ml SC**
- Diphtheria, Tetanus, Acellular Pertussis and Inactivated Poliovirus **0.5ml IM**
- Measles, Mumps, Rubella and Varicella **0.5ml SC**
- Diphtheria, Tetanus and Acellular Pertussis **0.5ml IM**
- Diphtheria and Tetanus **0.5ml IM**
- Pneumococcal Polysaccharide **0.5ml IM**
- Pneumococcal Conjugate 20-valent **0.5ml IM**
- *Haemophilus influenzae* type b **0.5ml IM**
- Inactivated Poliomyelitis **0.5ml SC**
- Varicella-Zoster **0.5ml IM**
- Human Papillomavirus **0.5ml IM**
- Hepatitis A:
  - Vaqta
    - 6 months-17yrs **0.5ml IM**
    - 18yrs+ **1.0ml IM**
  - Avaxim
    - 6 months-15yrs **0.5ml IM**
    - 12yrs+ **1.0ml IM**
  - Havrix
    - 6 months-18yrs **0.5ml IM**
    - 19yrs+ **1.0ml IM**
- Hepatitis B
  - Engerix-B
    - Neonates-19yrs **0.5ml IM**
    - 11-15yrs, 20yrs+ **1.0ml IM**
  - Recombivax HB
    - Neonates-19yrs **0.5ml IM**
    - 11-15yrs, 20yrs + **1.0ml IM**
- Hepatitis A/Hepatitis B
  - Twinrix Jr.
    - 6 months-18yrs **0.5ml IM**
  - Twinrix
    - 6 months-15yrs, 19yrs+ **1.0ml IM**
- Salmonella typhi **0.5ml IM**
- Respiratory Syncytial Virus (RSV) – Monoclonal antibody prophylaxis
  - BEYFORTUS (nirsevimab) **dose varies by patient**
- Respiratory Syncytial Virus (RSV) - Vaccine
  - AREXVY (RSVPreF3)(recombinant, AS01E adjuvanted vaccine) **0.5ml IM**
  - ABRYVO (RSVpreF) (RSV prefusion F subunit vaccine) **0.5ml IM**

- Allergy shots **dose varies by patient** – administered **SC**
- Vitamin B12 **dose varies by patient** – administered **IM**
- Imovax Rabies **1.0 ml IM**
- Denosumab **1ml (60mg) SC**
- Romosozumab **1.17ml (105mg) SC**
- Abilify Maintena **dose varies by patient** – administered **IM**
- Invega **dose varies by patient** – administered **IM**
- Depo-Provera **150 mg/ml in 50 mg/ml sterile suspension** – administered **IM**
- Depo-Testosterone **dose varies by patient** – administered **IM**
- Delatestryl **dose varies by patient** – administered **IM**
- Penicillin G Benzathine **dose varies by patient** – administered **IM**
- For laboratory requisition and prescribing of Hepatitis A and Hepatitis B vaccines, be 16 years of age or older
- For laboratory requisition only, require serologic proof of immunity to any of the following: measles, mumps, rubella, varicella, hepatitis A and hepatitis B

**Authorized Implementers:**Appendix Attached:  No  Yes

Title: Appendix B – Implementer Approval Form

Appendix C – Additional Voluntary Preparation

Implementers must be TCFHT-employed Regulated Health Care Providers or Physician Assistant (under the supervision of a physician).

Implementers must complete the following preparation and sign the Implementer Approval Form:

- Demonstrate clinical competence and knowledge to supervising physician(s) and/or nurse practitioner(s) and be observed on at least 3 occasions while implementing this medical directive
- Review and be familiar with the *Publicly Funded Immunization Schedules for Ontario – June 2022*, accessible from:  
<https://www.ontario.ca/files/2024-01/moh-publicly-funded-immunization-schedule-en-2024-01-23.pdf>
- Review and be familiar with the *Canadian Immunization Guide*, accessible from:  
<https://www.canada.ca/en/public-health/services/canadian-immunization-guide.html>
- Review and be familiar with the most current clinical practice guidelines for reducing pain in immunization as per “Reducing pain during vaccine injections: clinical practice guideline” in the *Canadian Medical Association Journal*, accessible from:  
<https://www.cmaj.ca/content/cmaj/187/13/975.full.pdf>
- Review most current guidelines for anaphylaxis management in the *Canadian Immunization Guide, Part 2 – Vaccine Safety: Anaphylaxis and other Acute Reactions following Vaccination*, accessible from: <https://www.canada.ca/en/public-health/services/publications/healthy-living/canadian-immunization-guide-part-2-vaccine-safety/page-4-early-vaccine-reactions-including-anaphylaxis.html>

In addition, Registered Pharmacist implementers must complete an Ontario College of Pharmacists (OCP)-approved injection training course and must register their training with the OCP.

Certification in CPR (minimum level C plus AED training) is *recommended*, but not mandatory for the implementation of this directive.

Note: Implementers may opt to complete further preparation with the readings found in Appendix C.

**Indications:**

**Appendix Attached:** \_\_\_ No X Yes

**Title:** Appendix D – Vaccine Contraindications and Precautions; Appendix E – Guidelines for the Interval Between Administration of Blood Products and Live Vaccines

1. The implementers are authorized to administer vaccines and injectable substances to any patients, aged 2 months and older, as recommended in the National Advisory Committee on Immunization (NACI) guidelines and with reference to the *Publicly Funded Immunization Schedules for Ontario – June 2022*. If receiving more than one vaccine/injectable substance at one time, the implementer will ensure there is no interaction between the vaccines and/or injectable substances. The implementer will consult with a physician or nurse practitioner if any contraindication to receiving the vaccine/injectable substance is identified in the initial screening. After consultation, if the vaccine or injectable substance is to be given, the physician or nurse practitioner will review the implementer's documentation in the EMR and will document his/her own assessment as well.

**Contraindications to vaccines and injectable substances:**

- Severe acute illness with or without a fever
- History of severe allergic reaction with previous dose of the vaccine/substance or allergy to one or more of its components
- Pregnancy or immunosuppression (live vaccines only)
- Patient has a contraindication specific to a particular vaccine/injectable substance as per product monograph and/or appendices

**Precautions for vaccines and injectable substances:**

- Moderate acute illness with or without a fever; benefits and risks of immunizing should be weighed
- Febrile or has been febrile in the past 24-48 hours
- Rash
- Pregnancy
- Immunosuppression
- Patient has received blood products or immune globulin (Ig) preparations in the last 12 months (refer to Appendix E for timing intervals)

**When to defer live-virus vaccines:**

- If the patient requires a TB skin test (TST) within 4 weeks, defer live-virus vaccine until after TST is complete as the vaccine may temporarily depress the reactivity to TST and cause a false negative result. If patient unable to defer, administer live-virus vaccine on the same day as the TST but at a different site.
- If the patient will be receiving blood products or immune globulin (Ig) preparations in the next 14 days, as per Appendix E.

2. The implementers are authorized to complete a laboratory requisition for measles, mumps, rubella, varicella, hepatitis A and/or hepatitis B titers when a patient requires evidence of immunity.

**Contraindications to laboratory requisition for immunity testing:**

- Patient is currently symptomatic for the disease for which immunity is being tested
- Post-exposure testing

- Patient received a vaccine < 4 weeks ago for the disease for which immunity is being tested
3. The implementers are authorized to prepare a prescription for Hepatitis A, Hepatitis B or Hepatitis A/B vaccine if the patient is 16 years of age or older and has demonstrated non-immunity to the disease(s) or lacks previous immunization to the disease(s).

**Consent:**

Appendix Attached:  No  Yes  
 Title:

- The implementer will obtain verbal consent from the patient or legal substitute decision maker for the administration of a vaccine or injectable substance, and will explain any potential risks and benefits prior to administering the injection.
- Patient's consent for the order of titers is implied, as the patient has presented seeking proof of immunity to specific diseases and is a Family Health Team patient where interprofessional practice is expected. Patient is informed of the purpose of testing for immunity, including when results will be available, and contact information is obtained for the review of the results (if not contacted by the primary care provider).

**Guidelines for Implementing the Order/Procedure:**

Appendix Attached:  No  Yes  
 Title: Appendix F – Laboratory Requisitions

**For administration of vaccines/injectable substances:**

Prior to the administration of vaccines or injectable substances, the implementer will review with the patient or patient's guardian the purpose of and any adverse effects related to the vaccines or injectable substances.

Authorized implementer may administer the vaccine or injectable substance upon receiving consent and after confirming appropriateness (according to NACI guidelines, if a vaccine).

Injections will be administered according to the administration instructions printed in the designated vaccine or injectable substance's product monograph. Universal precautions will be taken to minimize transmission of bloodborne pathogens and ensure patient and clinician safety. The implementer will use evidence-based strategies and techniques to minimize the pain of injection, as per the Clinical Practice Guidelines outlined by the Canadian Medical Association (see References).

A physician or nurse practitioner must be readily accessible on-site in the FHT for assessment and decision-making for patients who have contraindications to receiving the vaccine/injectable substance, and to provide emergency treatment should a patient experience an acute, adverse reaction to the vaccine/injectable substance. A second person must also be present in the clinic, where the vaccine/injectable substance is being administered, for the purposes of safety and emergency response.

**For laboratory requisition for immunity testing, implementer performs the following:**

- 1) Identifies need for laboratory investigation (bloodwork)
- 2) Ensures that no recent bloodwork has been undertaken that would result in duplication of testing
- 3) Explains the purpose of the test to the patient
- 4) Generates the appropriate laboratory requisition(s) using the supervising primary care provider's/authorizer's initials
- 5) Laboratory requisition(s) is signed as per Appendix F
- 6) Sends a message in the EMR to the primary care provider indicating that a laboratory requisition has been provided

- 7) Documents that a laboratory requisition has been provided
- 8) Follows up with the results promptly when available and reviews these findings with the patient's primary care provider in a timely manner so that appropriate treatment or follow-up care is implemented\*. Implementer will ensure that results are communicated to the patient and that treatment and/or follow-up testing is completed as per guidelines.

\*Bloodwork results will be interpreted with caution in cases of immunodeficiency.

#### For prescription of Hepatitis A and B vaccines:

Prior to preparing a prescription for Hepatitis A or Hepatitis B vaccine, the implementer will assess for immunity against the other strain of hepatitis as well (e.g. provider will assess immunity against Hepatitis A if preparing prescription for Hepatitis B and vice versa). If the patient has no history of vaccination against the other strain of hepatitis or is found to be non-immune to it, the implementer will discuss with the patient vaccination for Hepatitis A or B alone vs. vaccination for Hepatitis A *and* B, including the schedule, cost and benefits/risks of each vaccine. The implementer will prepare a prescription for the chosen vaccine.

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| <b>Documentation and Communication:</b> | <b>Appendix Attached:</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes<br><b>Title:</b> Appendix G – TCFHT-MD15 Stamp |
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The implementer will document administration of a vaccine in the "Immunizations" section of the patient's file in the EMR and administration of a vaccine/injectable substance in a chart note in the patient's file in the EMR using the stamp TCFHT-MD15\_Vaccines\_and\_Injectable\_Substances (see Appendix G). Information to be documented will include: brand and dose of vaccine/substance used, lot number, expiry date, area of body that is injected, route of injection and details of any adverse reaction that occurs. A physician or nurse practitioner will be alerted immediately if an adverse reaction occurs.

The implementer will advise the patient of the schedule for further doses of the vaccine or injectable substance, if applicable.

The implementer will document in the EMR that the patient was provided with a laboratory requisition for immunity testing and the disease(s) for which immunity is being tested. Documentation will include name and number of the directive.

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| <b>Review and Quality Monitoring Guidelines:</b> | <b>Appendix Attached:</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes<br><b>Title:</b> |
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- Review will occur annually on the anniversary of the activation date. Review will involve a collaboration between the authorizing primary care providers and the approved implementers.
- If new information becomes available between routine reviews, such as the publishing of updated Publicly Funded Immunization Schedules for Ontario or new clinical practice guidelines, and particularly if this new information has implications for unexpected outcomes, the directive will be reviewed by an authorizing primary care provider and a minimum of one implementer.

- At any such time that issues related to the use of this directive are identified, TCFHT must act upon the concerns and immediately undertake a review of the directive by the authorizing primary care providers and the authorized implementers.
- This medical directive can be placed on hold if routine review processes are not completed, or if indicated for an ad hoc review. During the hold, implementers cannot perform the procedures under authority of the directive and must obtain direct, patient-specific orders for the procedure until it is renewed.

**References:**

Canadian Immunization Guide, accessible from: <https://www.canada.ca/en/public-health/services/canadian-immunization-guide.html>

Canadian Immunization Guide: Part 1 – Key Immunization Information: Blood products, human immunoglobulin and timing of immunization, accessible from: <https://www.canada.ca/en/public-health/services/publications/healthy-living/canadian-immunization-guide-part-1-key-immunization-information/page-11-blood-products-human-immune-globulin-timing-immunization.html#p1c10t1>

Canadian Immunization Guide: Part 2 – Vaccine Safety: Anaphylaxis and other Acute Reactions following Vaccination, accessible from: <https://www.canada.ca/en/public-health/services/publications/healthy-living/canadian-immunization-guide-part-2-vaccine-safety/page-4-early-vaccine-reactions-including-anaphylaxis.html>

Canadian Immunization Guide: Part 4 – Active Vaccines: COVID-19 vaccine, accessible from : <https://www.canada.ca/en/public-health/services/publications/healthy-living/canadian-immunization-guide-part-4-active-vaccines/page-26-covid-19-vaccine.html>

Individual product monographs for vaccines and injectable substances listed

Publicly Funded Immunization Schedules for Ontario – June 2022 accessible from: <https://www.ontario.ca/files/2024-01/moh-publicly-funded-immunization-schedule-en-2024-01-23.pdf>

Reducing pain during vaccine injections: clinical practice guideline, *Canadian Medical Association Journal*, accessible from: <https://www.cmaj.ca/content/cmaj/187/13/975.full.pdf>

Paris, K. (2020). *Assessing antibody function as part of an immunologic evaluation*, accessible from: [https://www.uptodate.com/contents/assessing-antibody-function-as-part-of-an-immunologic-evaluation?search=titers&sectionRank=2&usage\\_type=default&anchor=H530391412&source=machineLearning&selectedTitle=1~150&display\\_rank=1#H530391412](https://www.uptodate.com/contents/assessing-antibody-function-as-part-of-an-immunologic-evaluation?search=titers&sectionRank=2&usage_type=default&anchor=H530391412&source=machineLearning&selectedTitle=1~150&display_rank=1#H530391412)

Vaccine Recommendations and Guidelines of the ACIP - Contraindications and Precautions, *Centers for Disease Control and Prevention*, accessible from: <https://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/contraindications.pdf>

**Appendix A:**

**Authorizer Approval Form**

| <b>Name</b> | <b>Signature</b> | <b>Date</b> |
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**Appendix B:**

**Implementer Approval Form**

To be signed when the implementer has completed the required preparation, and feel they have the knowledge, skill, and judgement to competently carry out the actions outlined in this directive.

| <b>Name</b> | <b>Signature</b> | <b>Date</b> |
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**Appendix C:****Additional Voluntary Preparation**

Hepatitis A – Serology, accessible from:

<https://www.publichealthontario.ca/en/laboratory-services/test-information-index/hepatitis-a-serology>

Hepatitis B – Serology, accessible from: <https://www.publichealthontario.ca/en/laboratory-services/test-information-index/hepatitis-b-serology>

Interpretation of Hepatitis B Serologic Test Results, accessible from:

[https://www.cdc.gov/hepatitis-b/hcp/diagnosis-testing/?CDC\\_AAref\\_Val=https://www.cdc.gov/hepatitis/hbv/interpretationOfHepBSerologicResults.htm](https://www.cdc.gov/hepatitis-b/hcp/diagnosis-testing/?CDC_AAref_Val=https://www.cdc.gov/hepatitis/hbv/interpretationOfHepBSerologicResults.htm)

Measles – Immunity Serology, accessible from: <https://www.publichealthontario.ca/en/laboratory-services/test-information-index/measles-diagnostic-serology>

Mumps – Immunity Serology, accessible from: <https://www.publichealthontario.ca/en/laboratory-services/test-information-index/mumps-immunity-serology>

Rubella – Immunity Serology, accessible from:

<https://www.publichealthontario.ca/en/laboratory-services/test-information-index/rubella-serology>

Varicella – Immunity Serology, accessible from: <https://www.publichealthontario.ca/en/laboratory-services/test-information-index/varicella-serology>

**Appendix D:****Vaccine Contraindications and Precautions****TABLE 4-1. Contraindications and precautions<sup>(a)</sup> to commonly used vaccines**

| <b>Vaccine</b>   | <b>Citation</b> | <b>Contraindications</b>   | <b>Precautions</b>  |
|--|-----------------|--|---|
| Dengue—<br>ONLY use in persons who have laboratory confirmation of previous dengue infection AND reside in endemic dengue areas <sup>(b)</sup> | (38)            | Lack of laboratory evidence of previous dengue infection<br><br>Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component<br><br>Severe immunodeficiency (e.g., hematologic and solid tumors, receipt of chemotherapy, congenital immunodeficiency, long-term immunosuppressive therapy <sup>(c)</sup> or patients with HIV infection who are severely immunocompromised) | Pregnancy<br>HIV infection without evidence of severe immunosuppression<br>Moderate or severe acute illness with or without fever   |
| DT, Td   | (4)             | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component   | GBS <6 weeks after previous dose of tetanus-toxoid-containing vaccine<br>History of Arthus-type hypersensitivity reactions after a previous dose of diphtheria-toxoid-containing vaccine; defer vaccination until at least 10 years have elapsed since the last tetanus-toxoid-containing vaccine<br>Moderate or severe acute illness with or without fever |

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| DTaP        | (39) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component<br>Encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures), not attributable to another identifiable cause, within 7 days of administration of previous dose of DTP or DTaP | Progressive neurologic disorder, including infantile spasms, uncontrolled epilepsy, progressive encephalopathy; defer DTaP until neurologic status clarified and stabilized<br><br>GBS <6 weeks after previous dose of tetanus-toxoid-containing vaccine<br><br>History of Arthus-type hypersensitivity reactions after a previous dose of diphtheria-toxoid-containing or tetanus-toxoid-containing vaccine; defer vaccination until at least 10 years have elapsed since the last tetanus-toxoid-containing vaccine<br><br>Moderate or severe acute illness with or without fever |
| Hepatitis A | (40) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component   | Moderate or severe acute illness with or without fever  |
| Hepatitis B | (41) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component<br>Hypersensitivity to yeast  | Moderate or severe acute illness with or without fever  |
| Hib         | (42) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component<br>Age <6 weeks   | Moderate or severe acute illness with or without fever  |

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| HPV <sup>(d)</sup> | (43) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component, including yeast | Moderate or severe acute illness with or without fever  |
| IIV <sup>(e)</sup> | (44) | Severe allergic reaction (e.g., anaphylaxis) after previous dose of influenza vaccine or to vaccine component | GBS <6 weeks after a previous dose of influenza vaccine<br>Moderate or severe acute illness with or without fever |
| IPV                | (45) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component                  | Pregnancy<br>Moderate or severe acute illness with or without fever   |

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| LAIV <sup>(f)</sup> | (44) | <p>Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component</p> <p>Concomitant use of aspirin or salicylate-containing medication in children and adolescents</p> <p>LAIV<sub>4</sub> should not be administered to persons who have taken oseltamivir or zanamivir within the previous 48 hours, peramivir within the previous 5 days, or baloxavir within the previous 17 days. <sup>(h)</sup></p> <p>Pregnancy</p> <p>Children aged 2 through 4 years who have received a diagnosis of asthma or whose parents or caregivers report that a health care provider has told them during the preceding 12 months that their child had wheezing or asthma or whose medical record indicates a wheezing episode has occurred during the preceding 12 months.</p> <p>Persons with active cerebrospinal fluid/oropharyngeal communications/leaks.</p> | <p>GBS &lt;6 weeks after a previous dose of influenza vaccine</p> <p>Asthma in persons aged 5 years old or older</p> <p>Medical conditions which might predispose to higher risk of complications attributable to influenza<sup>(g)</sup></p> <p>Moderate or severe acute illness with or without fever</p> |
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|         |         | <p>Close contacts and caregivers of severely immunosuppressed persons who require a protected environment.</p> <p>Persons with cochlear implants (due to the potential for CSF leak, which might exist for some period of time after implantation.</p> <p>Providers might consider consultation with a specialist concerning risk of persistent CSF leak if an age-appropriate inactivated or recombinant vaccine cannot be used).</p> <p>Altered Immunocompetence</p> <p>Anatomic or functional asplenia (e.g. sickle cell disease</p> |  |
| MenACWY | (46)    | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component, including yeast   | Moderate or severe acute illness with or without fever<br>Preterm birth (MenACWY-CRM) <sup>(i)</sup> |
| MenB    | (46,48) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component  | Moderate or severe acute illness with or without fever<br>Pregnancy<br>Latex sensitivity (MenB-4c)   |

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| MMR <sup>(j)</sup> , <sup>(k)</sup> | (1)  | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component<br><br>Pregnancy Known severe immunodeficiency (e.g., from hematologic and solid tumors, receipt of chemotherapy, congenital immunodeficiency, long-term immunosuppressive therapy <sup>(c)</sup> or patients with HIV infection who are severely immunocompromised)<br><br>Family history of altered immunocompetence <sup>(m)</sup> | Recent ( $\leq 11$ months) receipt of antibody-containing blood product (specific interval depends on product)<br><br>History of thrombocytopenia or thrombocytopenic purpura<br><br>Need for tuberculin skin testing or interferon-gamma release assay (IGRA) testing <sup>(l)</sup><br><br>Moderate or severe acute illness with or without fever |
| MPSV4                               | (49) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component   | Moderate or severe acute illness with or without fever  |
| PCV13,<br>PCV15,<br>PCV20           | (50) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose of PCV or any diphtheria- toxoid- containing vaccine or to a component of a vaccine (PCV or any diphtheria- toxoid- containing vaccine)   | Moderate or severe acute illness with or without fever  |
| PPSV23                              | (51) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component   | Moderate or severe acute illness with or without fever  |
| RIV                                 | (44) | Severe allergic reaction (e.g., anaphylaxis) to any component of the vaccine   | GBS <6 weeks after a previous dose of influenza vaccine<br><br>Moderate or severe acute illness with or without fever   |



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|------------------------------|------|--|---|
| Rotavirus                    | (6)  | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component<br>SCID<br>History of intussusception   | Altered immunocompetence other than SCID<br>Chronic gastrointestinal disease <sup>(n)</sup><br>Spina bifida or bladder exstrophy <sup>(n)</sup><br>Moderate or severe acute illness with or without fever   |
| Tdap                         | (52) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component<br>Encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures), not attributable to another identifiable cause, within 7 days of administration of previous dose of DTP, DTaP, or Tdap  | GBS <6 weeks after a previous dose of tetanus-toxoid–containing vaccine<br>Progressive or unstable neurological disorder, uncontrolled seizures, or progressive encephalopathy until a treatment regimen has been established and the condition has stabilized<br>History of Arthus-type hypersensitivity reactions after a previous dose of diphtheria-toxoid–containing or tetanus-toxoid–containing vaccine; defer vaccination until at least 10 years have elapsed since the last tetanus-toxoid–containing vaccine<br>Moderate or severe acute illness with or without fever |
| Varicella <sup>(j),(k)</sup> | (53) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component<br>Known severe immunodeficiency (e.g., from hematologic and solid tumors, receipt of chemotherapy, congenital immunodeficiency, long-term immunosuppressive therapy <sup>(c)</sup> or patients with HIV infection who are severely immunocompromised) <sup>(i)</sup><br><br>Pregnancy<br>Family history of altered immunocompetence <sup>(m)</sup> | Recent ( $\leq 11$ months) receipt of antibody-containing blood product (specific interval depends on product)<br>Moderate or severe acute illness with or without fever<br><br>Receipt of specific antiviral drugs (acyclovir, famciclovir, or valacyclovir) 24 hours before vaccination (avoid use of these antiviral drugs for 14 days after vaccination)<br><br>Use of aspirin or aspirin-containing products <sup>(o)</sup>  |

|        |      |  |  |
|--------|------|--|--|
| Zoster | (54) | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component | Moderate or severe acute illness with or without fever |
|--------|------|--|--|

**Abbreviations:** DT = diphtheria and tetanus toxoids; DTaP = diphtheria and tetanus toxoids and acellular pertussis; DTP = diphtheria toxoid, tetanus toxoid, and pertussis; GBS = Guillain-Barré syndrome; Hib = *Haemophilus influenzae* type b; HIV = human immunodeficiency virus; HPV = human papillomavirus; IIV = inactivated influenza vaccine; IPV = inactivated poliovirus; LAIV = live, attenuated influenza vaccine; MenACWY = quadrivalent meningococcal conjugate vaccine; MMR = measles, mumps, and rubella; MPSV4 = quadrivalent meningococcal polysaccharide vaccine; PCV13 = pneumococcal conjugate vaccine; PPSV23 = pneumococcal polysaccharide vaccine; SCID = severe combined immunodeficiency; RIV = recombinant influenza vaccine; Td = tetanus and diphtheria toxoids; Tdap = tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis.

(a) Events or conditions listed as precautions should be reviewed carefully. Benefits of and risks for administering a specific vaccine to a person under these circumstances should be considered. If the risk from the vaccine is believed to outweigh the benefit, the vaccine should not be administered. If the benefit of vaccination is believed to outweigh the risk, the vaccine should be administered. Whether and when to administer DTaP to children with proven or suspected underlying neurologic disorders should be decided on a case-by-case basis.

(b) Only persons with laboratory confirmation of immunity according to strict guidance at <https://www.cdc.gov/dengue/vaccine/hcp/testing.html> should receive dengue vaccination.

(c) Substantially immunosuppressive steroid dose is considered to be  $\geq 2$  weeks of daily receipt of 20 mg or 2 mg/kg body weight of prednisone or equivalent.

(d) HPV vaccine is not recommended during pregnancy

(e) When applying this contraindication to cclIV, the history of severe allergic reaction (e.g., anaphylaxis) must be specific to the event occurring following a dose of cclIV. Likewise, when applying this contraindication to RIV, the history of severe allergic reaction (e.g., anaphylaxis) must be specific to the event occurring following a dose of RIV. A history of severe allergic reaction (e.g., anaphylaxis) to a non-cclIV vaccine or to a component specific to components not contained in cclIV, is a precaution to cclIV. A history of severe allergic reaction (e.g., anaphylaxis) to a non-RIV vaccine or to a component specific to components not contained in RIV is a precaution to RIV.

(f) In addition, ACIP recommends LAIV not be used for pregnant women, immunosuppressed persons, and children aged 2-4 years who have asthma or who have had a wheezing episode noted in the medical record within the past 12 months, or for whom parents report that a health care provider stated that they had wheezing or asthma within the last 12 months. LAIV should not be administered to persons who have taken influenza antiviral medications within the previous 48 hours. Persons who care for severely immunosuppressed persons who require a protective environment should not receive LAIV, or should avoid contact with such persons for 7 days after receipt.

(g) See reference: Grohskopf LA, Alyanak E, Ferdinands JM, et al. Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices, United States, 2021-2022 Influenza Season. *MMWR Recomm Rep* 2021;70(No. RR-5):1-30.

(h) These values are based on the clearance of the particular antiviral. LAIV4 should not be administered to persons who have taken oseltamivir or zanamivir within the previous 48 hours, peramivir within the previous 5 days, or baloxavir within the previous 17 days. This "contraindication" is due to concern with reduced effectiveness of the vaccine. To obtain specific information, please refer to Grohskopf LA, Alyanak,

E, Broder KR, et. al. Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices — United States, 2020–21 Influenza Season. MMWR Recomm Rep 2020;69 (No. RR-8:1-26. Also at <https://www.cdc.gov/mmwr/volumes/69/rr/pdfs/rr6908a1-H.pdf>

(i) This precaution applies to infants younger than 9 months old

(j) HIV-infected children may receive varicella vaccine if CD4+ T-lymphocyte count is  $\geq 15\%$  and should receive MMR vaccine if they are aged  $\geq 12$  months and do not have evidence of current severe immunosuppression (i.e., individuals aged  $\leq 5$  years must have CD4+T lymphocyte [CD4] percentages  $\geq 15\%$  for  $\geq 6$  months; and individuals aged  $> 5$  years must have CD4+percentages  $\geq 15\%$  and CD4+ $\geq 200$  lymphocytes/mm<sup>3</sup> for  $\geq 6$  months) or other current evidence of measles, rubella, and mumps immunity. In cases when only CD4+cell counts or only CD4+percentages are available for those older than age 5 years, the assessment of severe immunosuppression can be based on the CD4+values (count or percentage) that are available. In cases when CD4+percentages are not available for those aged  $\leq 5$  years, the assessment of severe immunosuppression can be based on age-specific CD4+counts at the time CD4+counts were measured; i.e., absence of severe immunosuppression is defined as  $\geq 6$  months above age-specific CD4+count criteria: CD4+count  $> 750$  lymphocytes/mm<sup>3</sup> while aged  $\leq 12$  months and CD4+count  $\geq 500$  lymphocytes/mm<sup>3</sup> while aged 1 through 5 years. **Sources:** (1,50).

(k) MMR and varicella-containing vaccines can be administered on the same day. If not administered on the same day, these vaccines should be separated by at least 28 days.

(l) If active tuberculosis is suspected, MMR should be delayed. Measles vaccination might suppress tuberculin reactivity temporarily. Measles-containing vaccine can be administered on the same day as tuberculin skin or IGRA testing. If testing cannot be performed until after the day of MMR vaccination, the test should be postponed for  $\geq 4$  weeks after the vaccination. If an urgent need exists to skin test or IGRA, do so with the understanding that reactivity might be reduced by the vaccine.

(m) family history of congenital or hereditary immunodeficiency in first-degree relatives (e.g., parents and siblings), unless the immune competence of the potential vaccine recipient has been substantiated clinically or verified by a laboratory

(n) For RV1 only, based on latex in product/packaging. Note that anaphylactic allergy to latex is covered in the contraindication, and would also be isolated to RV 1 in the case of latex. For more details, see (55).

(o) No adverse events associated with the use of aspirin or aspirin-containing products after varicella vaccination have been reported; however, the vaccine manufacturer recommends that vaccine recipients avoid using aspirin or aspirin-containing products for 6 weeks after receiving varicella vaccines because of the association between aspirin use and Reye syndrome after varicella. Vaccination with subsequent close monitoring should be considered for children who have rheumatoid arthritis or other conditions requiring therapeutic aspirin. The risk for serious complications associated with aspirin is likely to be greater in children in whom natural varicella develops than it is in children who receive the vaccine containing attenuated VZV. No association has been documented between Reye syndrome and analgesics or antipyretics that do not contain aspirin.”

(Centers for Disease Control and Prevention, accessed April 2023)

**Appendix E:****Guidelines for the Interval Between Administration of Blood Products and Live Vaccines****Table 1: Guidelines for the interval between administration of immunoglobulin (Ig) preparations or blood products and measles-mumps-rubella (MMR), measles-mumps-rubella-varicella (MMRV) or monovalent varicella vaccine to maximize immunization effectiveness**

| Immunoglobulin or blood product                     | Dose, route           | Interval between receipt of Ig or blood product and subsequent administration of MMR, MMRV or monovalent varicella vaccine (months) |
|---|-----------------------|---|
| <b>Standard immunoglobulin (human) <sup>1</sup></b> |                       |   |
| Immunoglobulin (Ig)                                 | 0.02 - 0.06 mL/kg, IM | 3   |
|   | 0.25 mL/kg, IM        | 5   |
|   | 0.50 mL/kg, IM        | 6   |
| Intravenous immunoglobulin (IVIg)                   | 300 - 400 mg/kg, IV   | 8   |
|   | 1,000 mg/kg, IV       | 10  |
|   | 2,000 mg/kg, IV       | 11  |
| <b>Blood transfusion products</b>                   |                       |   |
| Plasma and platelet products                        | 10 mL/kg, IV          | 7   |
| Whole blood   | 10 mL/kg, IV          | 6   |
| Packed red blood cells                              | 10 mL/kg, IV          | 5   |
| Reconstituted red blood cells                       | 10 mL/kg, IV          | 3   |
| Washed red blood cells <sup>2</sup>                 | 10 mL/kg, IV          | 0   |

**Specific immunoglobulin (human)**

|  |                  |                |
|--|------------------|----------------|
| Cytomegalovirus immunoglobulin (CMVlg) | 150 mg/kg, IV    | 6              |
| Hepatitis B immunoglobulin (HBlg)      | 0.06 mL/kg, IM   | 3              |
| Rabies immunoglobulin (Rablg)          | 20 IU/kg, IM     | 4              |
| Rh immunoglobulin (Rhlg)               | 300 mcg, IM      | 3 <sup>3</sup> |
| Tetanus immunoglobulin (Tlg)           | 250 units, IM    | 3              |
| Varicella immunoglobulin (Varlg)       | 125 IU/10 kg, IM | 5              |

**Specific immunoglobulin (humanized monoclonal antibody)**

|   |                      |   |
|---|----------------------|---|
| Respiratory syncytial virus monoclonal antibody (palivizumab) (RSVAb) | 15 mg/kg/4 weeks, IM | 0 |
|---|----------------------|---|

**1** Ig can also be administered subcutaneously (SCIg). SCIg is primarily indicated as life-long replacement therapy in patients with primary antibody deficiencies for whom immunization with live vaccines is contraindicated. However, potential alternative indications for SCIg therapy may result in temporary use and discontinuation of therapy. Because pharmacokinetic properties of Ig G following SCIg administration have been shown to resemble those following IVIg administration, the recommended interval between the administration of SCIg and MMR, MMRV or monovalent varicella vaccines should be considered equivalent to the recommended interval after the corresponding IVIg monthly dosing.



**2** washed red blood cells are infrequently used

**3** refer to [Rh immunoglobulin](#) for additional information

(Government of Canada, September 2022)

**Appendix F:**

**Laboratory Requisitions**

|  <b>Ministry of Health and Long-Term Care</b><br><b>Laboratory Requisition</b><br>Requisitioning Clinician / Practitioner |   | Laboratory Use Only  |  |   |   |
|--|---|--|--|---|---|
| Name<br>Shari Chung<br>Address<br>790 Bay Street<br>Suite 300, PO Box 5<br>Toronto, ON M5G 1N8   |   | Clinician/Practitioner's Contact Number for Urgent Results<br>( 416 ) 960-1366 Ext.  |  | Service Date<br>yyyy    mm    dd  |   |
| Clinician/Practitioner Number<br>022754  | CPSO / Registration No.<br>84616  | Health Number  | Version  | Sex<br><input type="checkbox"/> M <input checked="" type="checkbox"/> F | Date of Birth<br>yyyy    mm    dd<br>2021    05    13   |
| Check (✓) one:<br><input checked="" type="checkbox"/> OHIP/Insured <input type="checkbox"/> Third Party / Uninsured <input type="checkbox"/> WSIB  |   | Province/ Other Provincial Registration Number   |  | Patient's Telephone Contact Number<br>( 416 ) 260-1315                  |   |
| Additional Clinical Information (e.g. diagnosis)   |   | Patient's Last Name (as per OHIP Card)<br>Duck   |  |   |   |
|  |   | Patient's First & Middle Names (as per OHIP Card)  |  |   |   |
|  |   | Baby<br>Patient's Address (including Postal Code)<br>76 Patrick St<br>Toronto, ON M6R 1B5  |  |   |   |
| <input checked="" type="checkbox"/> Copy to: Clinician/Practitioner<br>Last Name: Sturgeon    First Name: Shauna<br>Address:<br>790 Bay Street<br>Suite 522, Box 58/59<br>Toronto                          |   |  |  |   |   |
| Note: Separate requisitions are required for cytology, histology / pathology and tests performed by Public Health Laboratory   |   |  |  |   |   |
| x  | Biochemistry  | x  | Hematology   | x   | Viral Hepatitis (check one only)  |
|  | Glucose <input type="checkbox"/> Random <input type="checkbox"/> Fasting  |  | CBC  |   | Acute Hepatitis   |
|  | HbA1C   |  | Prothrombin Time (INR)   |   | Chronic Hepatitis   |
|  | Creatinine (eGFR)   |  | <b>Immunology</b>  | <input checked="" type="checkbox"/>                                     | Immune Status / Previous Exposure   |
|  | Uric Acid   |  | Pregnancy Test (Urine)   |   | Specify: <input checked="" type="checkbox"/> Hepatitis A  |
|  | Sodium  |  | Mononucleosis Screen   |   | <input checked="" type="checkbox"/> Hepatitis B   |
|  | Potassium   | <input checked="" type="checkbox"/>  | Rubella  |   | <input type="checkbox"/> Hepatitis C  |
|  | ALT   |  | Prenatal: ABO, RhD, Antibody Screen (titre and ident. if positive) |   | or order individual hepatitis tests in the "Other Tests" section below  |
|  | Alk. Phosphatase  |  | Repeat Prenatal Antibodies   |   | <b>Prostate Specific Antigen (PSA)</b>  |
|  | Albumin   |  | <b>Microbiology ID &amp; Sensitivities (if warranted)</b>          |   | <input type="checkbox"/> Total PSA <input type="checkbox"/> Free PSA  |
|  | Lipid Assessment (includes Cholesterol, HDL-C, Triglycerides, calculated LDL-C & Chol/HDL-C ratio; individual lipid tests may be ordered in the "Other Tests" section of this form) |  | Cervical   |   | Specify one below:<br><input type="checkbox"/> Insured – Meets OHIP eligibility criteria<br><input type="checkbox"/> Uninsured – Screening: Patient responsible for payment               |
|  | Albumin / Creatinine Ratio, Urine   |  | Vaginal  |   | <b>Vitamin D (25-Hydroxy)</b>   |
|  | Urinalysis (Chemical)   |  | Vaginal / Rectal – Group B Strep                                   |   | <input type="checkbox"/> Insured - Meets OHIP eligibility criteria: osteopenia; osteoporosis; rickets; renal disease; malabsorption syndromes; medications affecting vitamin D metabolism |
|  | Neonatal Bilirubin:   |  | Chlamydia (specify source):  |   | <input type="checkbox"/> Uninsured - Patient responsible for payment  |
|  | Child's Age:          days          hours   |  | GC (specify source):   |   |   |
|  | Clinician/Practitioner's tel. no.   |  | Sputum   |   | <b>Other Tests - one test per line</b>  |
|  | Patient's 24 hr telephone no.   |  | Throat   |   | measles titer   |
|  | Therapeutic Drug Monitoring:  |  | Wound (specify source):  |   | mumps titer   |
|  | Name of Drug #1   |  | Urine  |   | varicella titer   |
|  | Name of Drug #2   |  | Stool Culture  |   |   |
|  | Time Collected #1    hr.    #2    hr.   |  | Stool Ova & Parasites  |   |   |
|  | Time of Last Dose #1    hr.    #2    hr.  |  | Other Swabs / Pus (specify source):                                |   |   |
|  | Time of Next Dose #1    hr.    #2    hr.  |  |  |   |   |
|  |   | <b>Specimen Collection</b>   |  |   |   |
|  |   | Time    24 hour clock  | Date    yyyy/mm/dd   |   |   |
|  |   | <b>Fecal Occult Blood Test (FOBT) (check one)</b>  |  |   |   |
|  |   | <input type="checkbox"/> FOBT (non CCC) <input type="checkbox"/> ColonCancerCheck FOBT (CCC) no other test can be ordered on this form |  |   |   |
|  |   | <b>Laboratory Use Only</b>   |  |   |   |
| X <br>Clinician/Practitioner Signature  |   | Nazneen Patel, RN<br>Registered Nurse<br>as per Medical Directive MD-15 TCFHT<br>Date    10/10/2024                                    |  |   |   |

# General Test Requisition



**ALL sections** of the form must be completed by [authorized](#) health care providers for each specimen submitted, or testing may be delayed or cancelled. Verify that **all testing requirements** are met before collecting a specimen. For **HIV, respiratory viruses, or culture isolate** requests, use the dedicated requisitions available at: [publichealthontario.ca/requisitions](http://publichealthontario.ca/requisitions)

**For Public Health Ontario's laboratory use only:**  
 Date Received (yyyy-mm-dd):  PHO Lab No.:

**Ordering Healthcare Provider Information**  
 Licence No.:  Healthcare Provider Full Name:   
 022754  Shari Chung  
 Org. Name:  Taddle Creek FHT Address:  .. Bay Street Suite 522  
 City:  Toronto Postal Code:  M5G 1N8 Province:  ON  
 Tel:  416-591-1222 Fax:  416-591-1227

**Patient Information**  
 Health Card No.:   
 Date of Birth (yyyy-mm-dd):  2021-05-13 Sex:  Male  
 Female  
 Medical Record No.:  15343  
 Last Name (per health card):  Duck  
 First Name (per health card):  Baby  
 Address:  76 Patrick St Postal Code:  M6R 1B5  
 City:  Toronto Tel:  ...60-1316 (M)

**Copy to Lab / Health Unit / Other Authorized Healthcare Provider**  
 Licence No.:  Lab / Health Unit / Other Authorized Provider Name:   
 Org. Name:  Address:   
 City:  Postal Code:  Province:   
 Tel:  Fax:

**Investigation / Outbreak No. from PHO or Health Unit (if applicable):**

**Patient Setting**  
 Clinic / Community  ER (Not Admitted / Not Yet Determined)  ER (Admitted)  
 Inpatient (Non-ICU)  ICU / CCU  Congregate Living Setting

**Specimen Information**  
 ★ Date Collected (yyyy-mm-dd):  Submitter Lab No.:   
 Whole Blood  Serum  Plasma  
 Bone Marrow  Cerebrospinal Fluid (CSF)  Nasopharyngeal Swab (NPS)  
 Oropharyngeal / Throat Swab  Sputum  Bronchoalveolar Lavage (BAL)  
 Endocervical Swab  Vaginal Swab  Urethral Swab  
 Urine  Rectal Swab  Faeces  
 Other (Specify type AND body location):

**Testing Indication(s) / Criteria**  
 Diagnosis  Screening  Immune Status  Follow-up / Convalescent  
 Pregnancy / Perinatal  Impaired Immunity  Post-mortem  
 Other (Specify):

**Test(s) Requested**  
 Enter each assay as per the [publichealthontario.ca/testdirectory](http://publichealthontario.ca/testdirectory):  
 1.  measles igG immune status  
 2.  mumps igG immune status  
 3.  rubella igG immune status  
 4.  varicella igG immune status  
 5.   
 6.

**Signs / Symptoms**  
 No Signs / Symptoms  Onset Date (yyyy-mm-dd):   
 Fever  Rash  STI  
 Gastrointestinal  Respiratory  Hepatitis  Meningitis / Encephalitis  
 Other (Specify):

**For routine hepatitis A, B or C serology, complete this section instead:**  
**Hepatitis A**  Immune Status (HAV IgG)  Acute Infection (HAV IgM, signs/symptoms info)  
**Hepatitis B**  Immune Status (anti-HBs)  Chronic Infection (HBsAg + total anti-HBc)  
 Acute Infection (HBsAg + total anti-HBc + IgM if total is positive)  Pre-Chemotherapy Screening (anti-HBs + HBsAg + total anti-HBc)  
**Hepatitis C**  Current / Past Infection (HCV total antibodies)  
 No immune status test for HCV is currently available.

**Relevant Exposure(s)**  
 None / Not Applicable Most Recent Date (yyyy-mm-dd):   
 Occupational Exposure / Needlestick Injury (Specify):  Source  Exposed  
 Other (Specify):

**Relevant Travel(s)**  
 None / Not Applicable Most Recent Date (yyyy-mm-dd):   
 Travel Details:

The personal health information is collected under the authority of the Personal Health Information Protection Act, s.36 (1)(c)(iii) for the purpose of clinical laboratory testing. If you have questions about the collection of this personal health information please contact the PHO's Laboratory Customer Service at 416-235-6556 or toll free 1-877-604-4567. F-SD-SCG-1000, version 004 (September 2023).



**Appendix G:****TCFHT-MD15 Stamp**

S: Requires • «vaccine»«injection»«, last dose given •»

- No adverse reaction to past immunizations/injections
- «NKDA»«Allergies to • noted/updated in pt profile»
- «- Not immunocompromised»«, not pregnant»

O/E:

- Well«; afebrile, no rashes, no severe/acute illness»

A:

- Reviewed possible side effects
- «Immunization»«Injection» administered «tandem»«3:1» as per details below, pt tolerated well
- «- Distraction methods used»
- «- Topical anaesthetic applied to skin 20 mins prior to injection»

P:

- Advised pt to wait X 15 mins post-injection for observation; no adverse reaction reported
- «- Pt aware to RTC in • for «next injection»«• dose of •»

\*actions and interventions in accordance with Medical Directive TCFHT-MD15