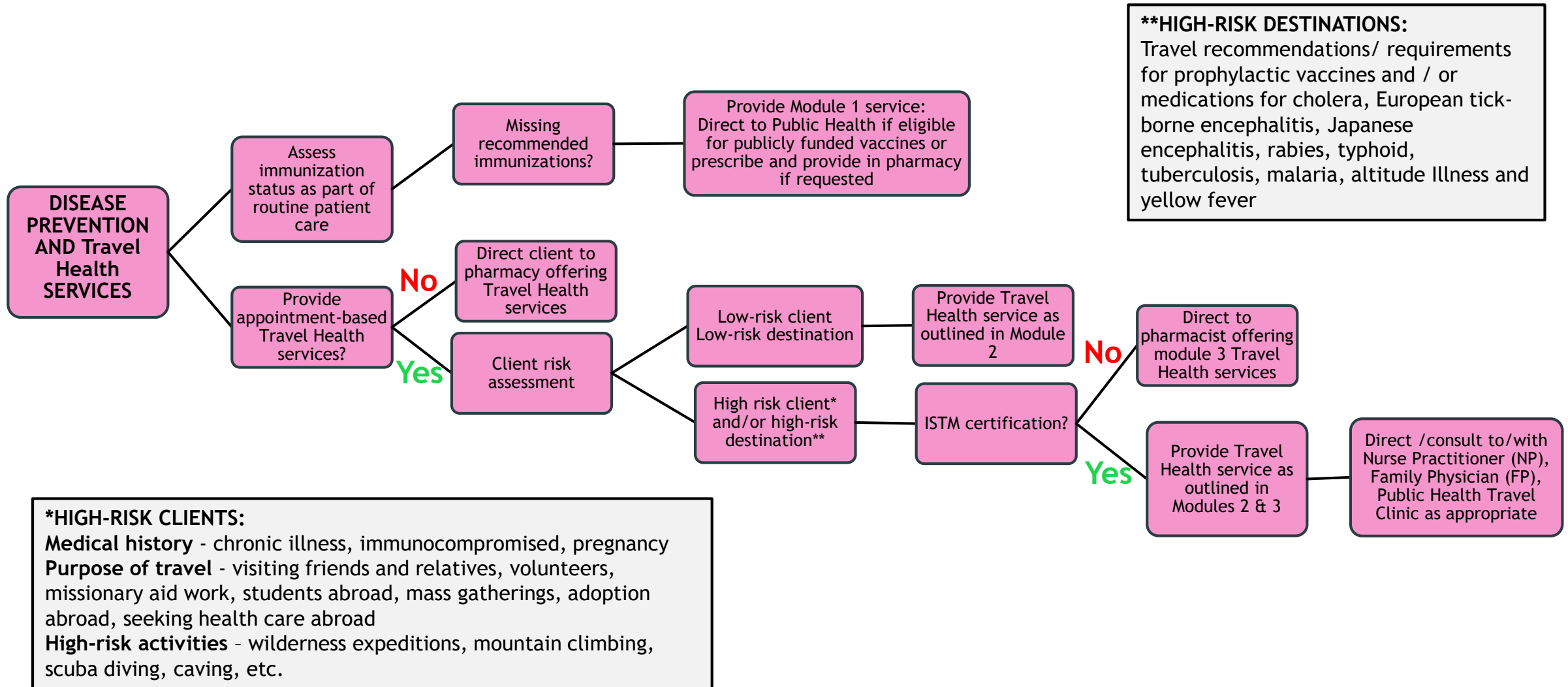


# Disease Prevention and Travel Health Services

Vaccine Preventable Disease  
and Routine Immunization

# Triage Flowchart



**\*HIGH-RISK CLIENTS:**  
**Medical history** - chronic illness, immunocompromised, pregnancy  
**Purpose of travel** - visiting friends and relatives, volunteers, missionary aid work, students abroad, mass gatherings, adoption abroad, seeking health care abroad  
**High-risk activities** - wilderness expeditions, mountain climbing, scuba diving, caving, etc.

**\*\*HIGH-RISK DESTINATIONS:**  
 Travel recommendations/ requirements for prophylactic vaccines and / or medications for cholera, European tick-borne encephalitis, Japanese encephalitis, rabies, typhoid, tuberculosis, malaria, altitude illness and yellow fever

# Vaccine Prescribing Steps

Step 1

Collect patient immunization history

Step 2

Determine immunization recommendations for client

Step 3

Identify indication(s) for vaccine

Step 4

Screening/consent

Step 5

Prescribe vaccine(s)

Step 6

Dispense and administer vaccine(s)

Step 7

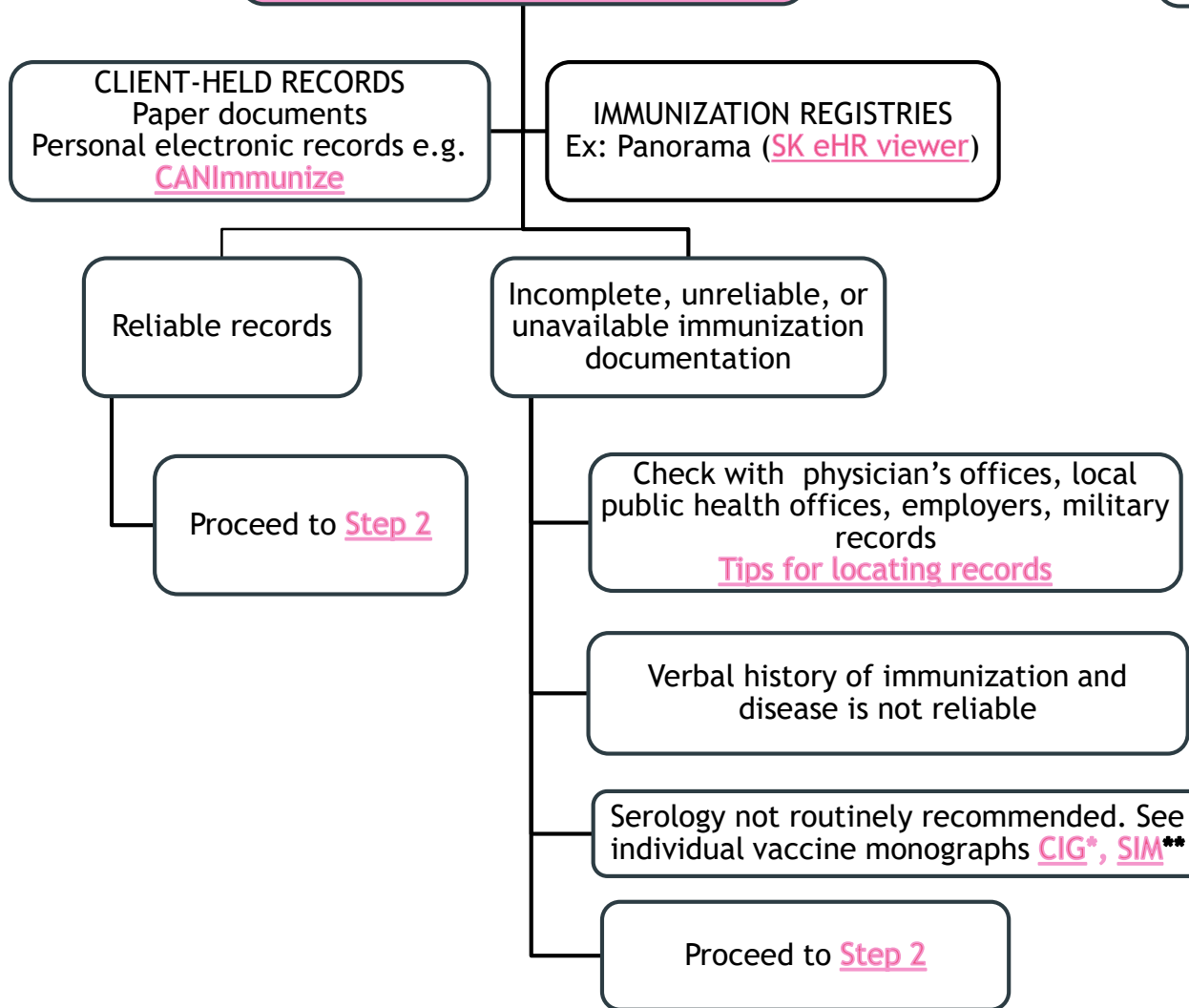
Provide patient information, immunization record updates

Step 8

Immunization documentation, Panorama entry

# 1. Collect Immunization History

\*CIG = Canadian Immunization Guide  
\*\*SIM = Saskatchewan Immunization Manual



2. Determine current immunization recommendations based on individual client profile

Medical History

Medication History

Pregnant, planning on pregnancy or breastfeeding

Social history  
(occupation, residence, lifestyle)

Healthy  
(Reliable or inadequate immunization records)

Chronic Medical Condition(s)

### 3. Identify indication(s) for vaccinations

Direct / Consult IF

Appropriate for provision in pharmacy  
Proceed to [Step 4](#)

May be provided by pharmacist if patient pDirects and is willing to pay for the vaccine and administration

Age less than 5 years

[Public Health Notification Form](#)

Publicly Funded Vaccine\*  
Eligibility Criteria  
Routine Immunization SIM: Chap 5, 1.7, 1.8  
[Publicly Funded Immunizations](#)  
Specific populations SIM: Chap t, 9 App 7.1  
[Specific Populations](#)

[Public Health Notification Form](#)

History of severe reaction to vaccine or ingredients in formulation

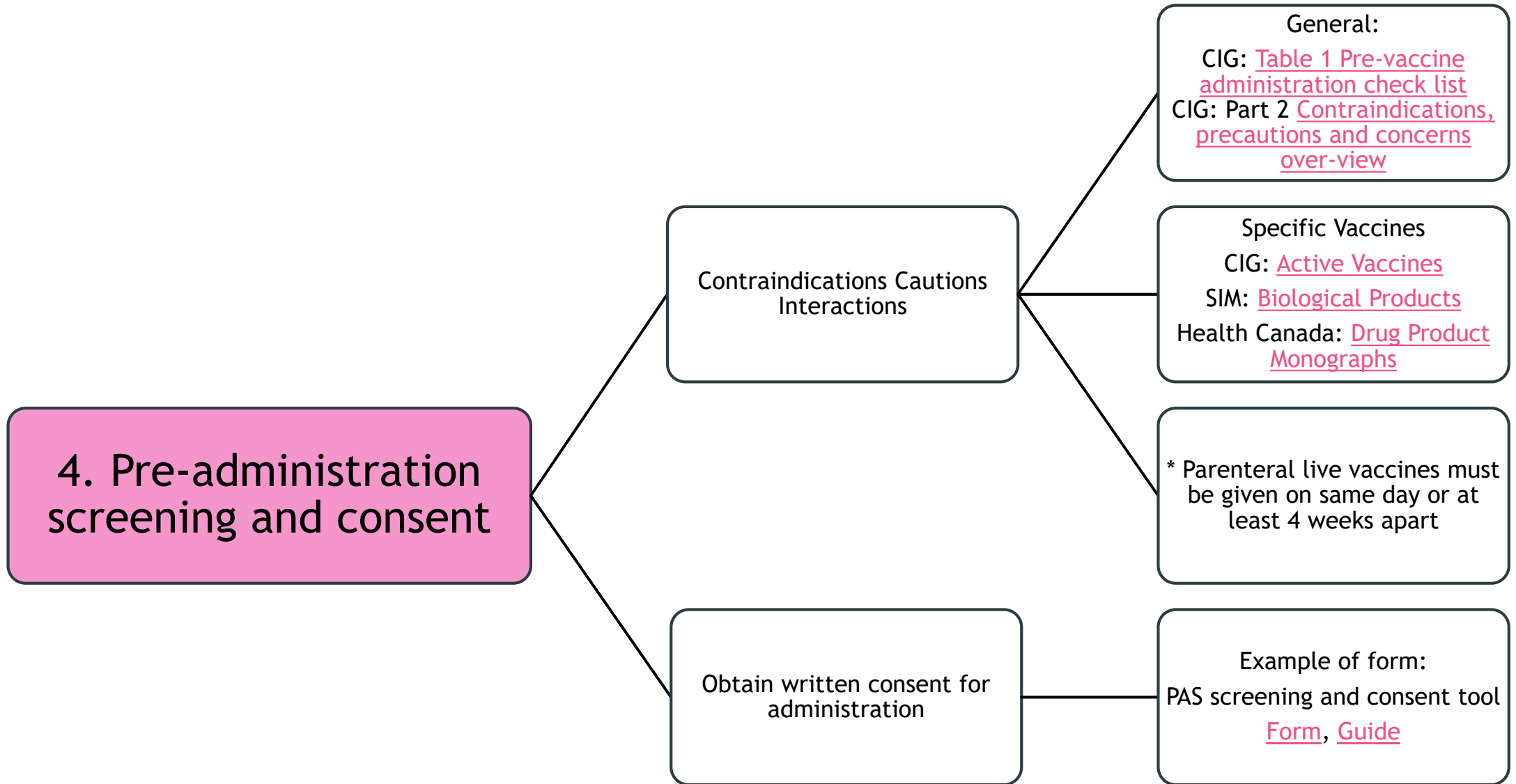
Nurse Practitioner (NP)  
Family Physician (FP)

Post-exposure to infection / outbreaks

Needlestick injury - Emergency Room (ER)  
Post-exposure measles, mumps, varicella, meningitis - Public Health  
Tetanus - FP/NP/ER  
Rabies - Public Health

Live vaccine indicated for immunocompromised patient

FP / Medical Specialist



\*NB; consider if providing a live vaccine at the same time as directing a client to Public Health for receipt of another live vaccine or if there is a possibility the client might require another live vaccine within a month (e.g. travel abroad)

## 5. Prescribe Vaccine

Issue prescription

Fax prescription/  
Healthcare provider notification to  
NP/FP

If eligible for public funding, direct client to Public Health (unless patient requests and is willing to pay for provision and administration of vaccine in pharmacy)

## 6. Dispense and administer vaccine as per monograph directions. Check for contraindications, precautions and interactions

SIM: Biological Products  
OR

CIG: Active Vaccines  
OR

Manufacturer's monographs  
Health Can DPD  
eCPS

Drug Information Databases e.g.  
Lexicomp



## 7. Patient Information

Counsel on adverse effects and management  
CIG: [Vaccine Safety](#)  
SIM: [Adverse Events Following Immunization](#)

Provide vaccine fact sheet(s)  
SIM: Appendix 14.3 [Immunization Fact Sheets](#)  
CANimmunize [Fact Sheets](#)

Update patient's personal immunization record

If applicable, schedule date for next vaccination in series

## 8. Documentation

Record vaccination on [PIP](#) and pharmacy patient file. File screening and consent form

Panorama record?

Adverse Event Following Injection (AEFI)

1. If adverse effect meets [criteria](#), complete [AEFI report](#) form
2. Fax to patient's primary healthcare provider with request to fill in Section 11 (Recommendation for future immunization) and fax back to pharmacy
3. Inform patient of PHP's recommendation
4. Record AEFI and recommendation on patient's pharmacy file
5. Submit AEFI to Health Canada

# Medical History Healthy

## Reliable Immuni- zation Records

### Pediatric (< 18 years of age)

CAN: [Routine and Catch-up](#)

SIM: Routine Chap 5, 1.1 [Routine Immunization Infants, Children and Adolescents](#)

SIM: Catch-up Chap 5, 1.4 [Children 1 Year and older but less than 7 years When Starting Immunizations](#); 1.5 [Children 7 to 17 Years When Starting Immunizations](#)

### Adult (18years of age and older)

CAN: CIG Recommended Immunization Schedules [Table 5 Adult Not Previously Immunized](#), [Table 6 Adult Previously Immunized](#)

SIM: Routine Chap 5,1.7 [Recommended Publicly Funded Immunizations for Adults Who Completed a Primary Childhood Vaccine Series](#)

SIM: Catch-up Chap 5,1.6 [Adults 18 Years and Older When Starting Immunization](#)

## Inadequate, Unknown Records

CIG: Part 3 [Immunization of persons with inadequate immunization records](#)

SIM: Chap 5, 4.1 [Unknown or uncertain Immunization Status](#)

## New to Canada

CIG: Part 3 [Immunization of persons new to Canada](#)

SIM: Chap 5, 4.1 [Unknown or Uncertain Immunization Status](#)

SIM: Chap 7, 7.2 [Individuals Recently New to Canada](#)

[Proceed  
to Step 3](#)

# Chronic Medical Conditions

Asplenia  
Bleeding disorders  
Cardiac disease  
Cerebrospinal fluid disorders  
Cochlear implant  
Cystic fibrosis  
Diabetes mellitus  
Guillain-Barré syndrome  
Liver disease  
Lung disease  
Malignancies/cancer  
Neurological conditions affecting respiratory/oral secretion clearance  
Renal disease  
Sickle cell disease  
AND/OR  
Immuno-compromised state

## Pediatric

### Chronic Medical Condition

CIG: [Immunization of Persons with Chronic Diseases](#)

CIG: [Table 4: Additional Recommended Immunizations, Children Considered at Risk](#)

SIM: Chap 7, 2 [Chronic Medical Conditions](#); Chap 7, 9 [App 7.1 Special Populations](#)

### Immunocompromised

CIG: [Immunization of immunocompromised persons](#)

SIM: Chap 7, 3 [Immunocompromised Conditions](#)

## Adult

### Chronic Medical Condition

CIG: [Immunization of Persons with Chronic Diseases](#)

CIG: [Table 7: Additional Recommended Immunizations, Adults](#)

CIG: Table 2: Adult Immunization - [Recommendations for Specific Risk Situations](#)

SIM: Chap 7, 2 [Chronic Medical Conditions](#); Chap 7, 9 [App 7.1 Special Populations](#)

### Immunocompromised

CIG: [Immunization of immunocompromised persons](#)

SIM: Chap 7, 3 [Immunocompromised Conditions](#)



[Proceed to Step 3](#)

# Medication History

## Immunosuppressant therapy

Long-term / high dose corticosteroids  
Cancer chemotherapy  
Immunologic modulators such as tumour necrosis factor blockers, monoclonal antibodies  
Post-transplant drugs

CIG: [Immunosuppressive therapy](#)

SIM: Chap 7, 3.7.1 [High Dose Corticosteroid Therapy](#)

## Antibiotics / Antivirals

Usually not a contraindication to immunization.

Exceptions - SIM: Chap 6, 4.1 [Antibiotics and Antivirals](#)

[Proceed to Step 3](#)

## ASA

Live attenuated influenza vaccine (LAIV) contraindicated in children < 18 years of age if long-term use of ASA  
Varicella-containing vaccines - theoretical risk of Reye's syndrome - avoid ASA for 6 wks in children < 18 years of age after immunization unless benefit outweighs risk e.g., conditions which require chronic salicylate therapy

## Allergies:

Vaccines or components of vaccine formulations

Check cautions, contraindications for individual vaccines

Pregnancy,  
planning  
on  
pregnancy  
and/or  
breast-  
feeding

Pregnancy /  
breastfeeding

SIM: Chap 7, 5.2 [Pregnancy](#)

CIG: [Immunization in pregnancy and breastfeeding](#)

CIG: [Immunization of household contacts of pregnant women](#)

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Close contacts  
of newborns

Post-partum - vaccinate post-partum women susceptible to pertussis, rubella, varicella, influenza prior to discharge

Persons anticipating regular contact with infant should have immunizations optimized.

CIG: [Post-partum women and other close contacts of newborns](#)



[Proceed  
to Step 3](#)

# Occupation

Child care workers  
Correctional facilities  
Emergency services  
Essential community service  
Military personnel

Health care workers  
Institutions for developmentally challenged  
Occupational exposure to animals  
Shelters for homeless  
Refugee / humanitarian service

SIM: Chap 7, 6.0 [Occupation](#)  
CIG: [Immunization of Workers](#)

# Residence

Close contact immunocompromised person

CIG: [Immunization of immunocompromised persons - Close contacts](#)

SIM: Chap 7, 1.1 [Household members of an immunocompromised person](#)

Household contacts of persons who use illicit drugs

SIM:Chap 7, 9: App 7.1 [Special Populations](#)

Healthcare Facility

SIM: Chap 5, 4.5 [Immunizations of residents and patients in healthcare facilities](#)

Homeless: Pneu-P-23, SIM Chap 7, 9: App 7.9 [Special Populations](#) (HAV recently recommended for homeless persons in United States by ACIP, not publicly funded in SK)

Residents of Correctional Facilities: HBV - SIM: [Chap 7 9, App 7.1 Special Populations](#); CIG Part 3, Table 2: Adult immunization - Recommendations for Specific Risk Situations

[Proceed to Step 3](#)

# Life Style

Men Who Have Sex With Men: HAV, HBV - SIM: Chap 7, 5.1 [Men who have sex with men](#); Consider HPV - CIG Part 4 - [HPV Recommendations for Use](#)

Other risk factors (multiple sexual partners, illicit drug use, transgender, etc.)

SIM: Chap 7,9 App 7.1 [Special Populations](#)

CIG: [Table 2: Recommendations for Specific Risk Situations](#)

CDC: [Adult Immunization Schedule by Medical and Other Indications](#)

*Note: Vaccines may not be eligible for SK public funding for all of the above indications. Direct to SIM.*

International Travel - Direct to Modules 2 and 3

# Resources

- ▶ Saskatchewan Immunization Manual  
<https://www.ehealthsask.ca/services/Manuals/Pages/SIM.aspx>
- ▶ Canadian Immunization Guide <https://www.canada.ca/en/public-health/services/canadian-immunization-guide.html>
- ▶ CDC Pink Book - Epidemiology and Prevention of Vaccine-Preventable Diseases  
<https://www.cdc.gov/vaccines/pubs/pinkbook/chapters.html>