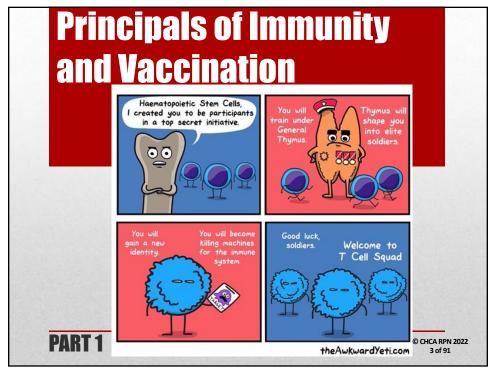
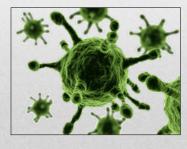


2



# What is the purpose of immunity?

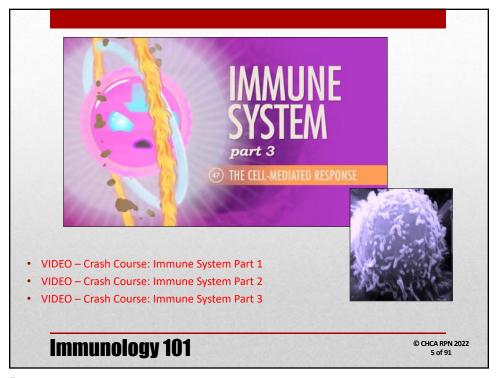
- Recognize self from non-self
- Recognize and eliminate infectious agents such as viruses and bacteria
- Prevent infection in the future

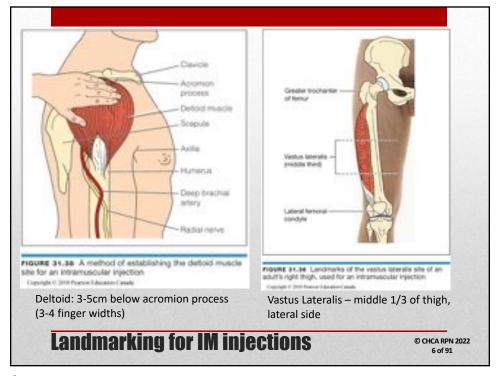


**Principles: Immunity** 

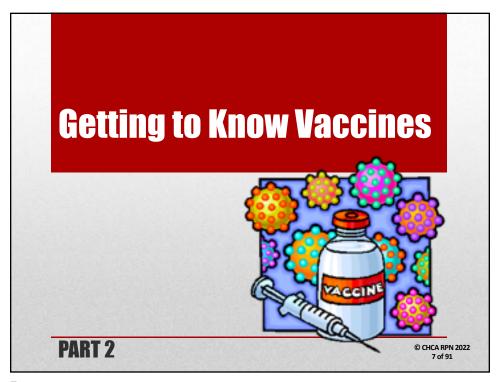
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6



# Live vs DEAD

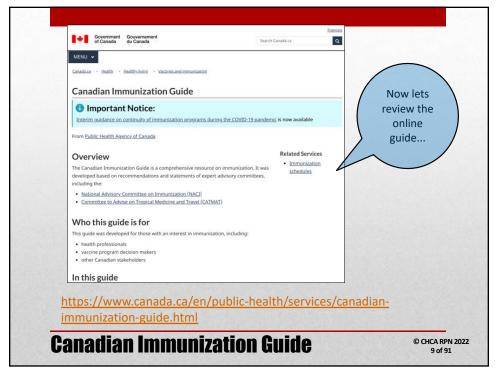
- Vaccine strains are weakened so that infection is either not apparent or very mild (attenuated)
- Induce immunity by actively replicating within the host
- Most are delivered subcutaneously
- Mimics natural infection
- Leads to T and B cell activation
- Contraindicated in patient with immunodeficiency
- Together or 4 weeks apart

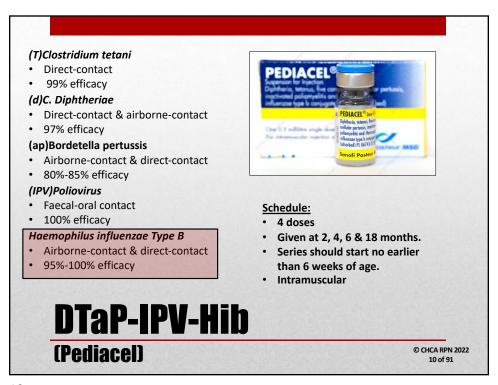
- Contain killed (inactivated) bacteria or virus
- Activate innate responses at their site of injection
- Needs to be injected into well vascularised muscle to be effective
- Most always require multiple doses
- May require periodic supplemental doses to increase (boost) antibody levels

**Types of Immunizing Products** 

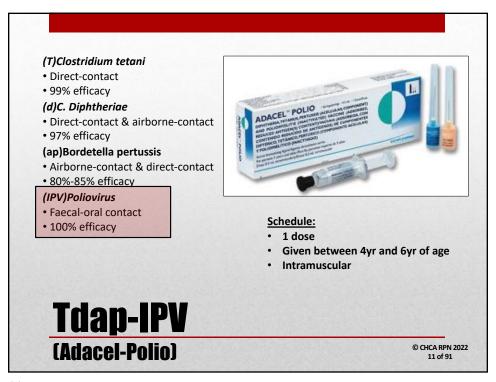
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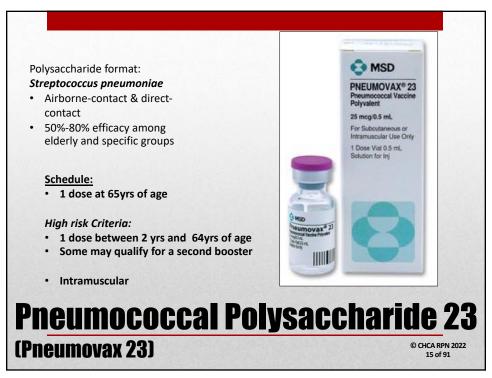


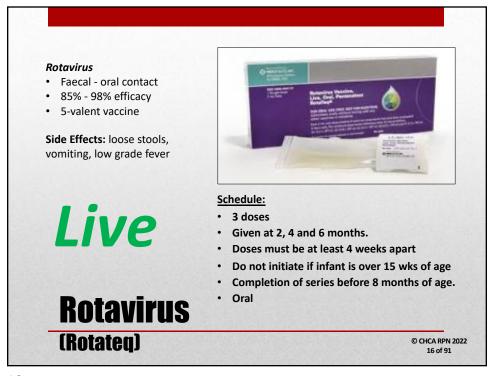
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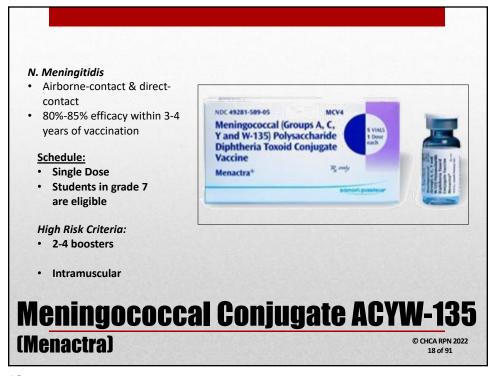
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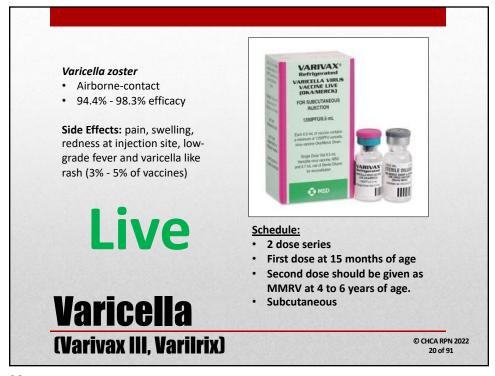
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22

- 1. Infants born to HBV-positive carrier mothers:
  - premature infants weighing <2,000 grams at birth (4 doses)
  - premature infants weighing ≥2,000 grams at birth and full/post term infants (3 doses)
- Children <7 years old whose families have immigrated from countries of high prevalence for HBV and who may be exposed to HBV carriers through their extended families (3 doses)
- 3. Household and sexual contacts of chronic carriers and acute cases (3 doses)
- 4. History of a sexually transmitted disease (3 doses)
- 5. Intravenous drug use (3 doses)
- 6. Liver disease (chronic), including hepatitis B and C (3 doses)
- 7. Awaiting liver transplants (2nd and 3rd doses only)
- 8. Men who have sex with men (3 doses)
- 9. Multiple sex partners (3 doses)
- 10. Needle stick injuries in a non-health care setting (3 doses)
- On renal dialysis or those with diseases requiring frequent receipt of blood products (e.g., haemophilia) (2nd and 3rd doses only)

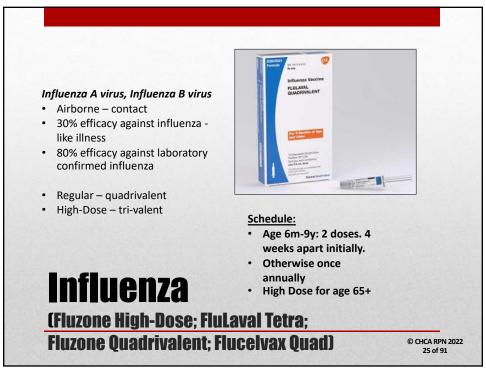
# **Hepatitis B (High Risk Criteria)**

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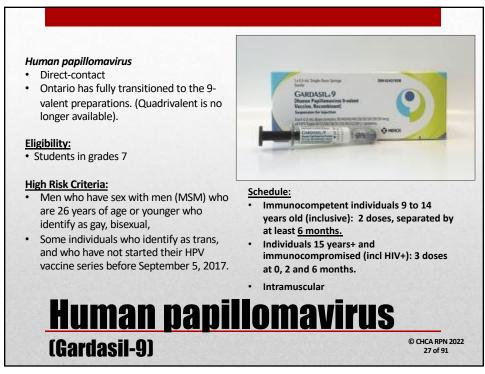
		Risk Vaccine tuals should also		secording to	the routine or applicable catch-up schedules (see pages 1 to 3)
	Publicly Funded Vaccines	Publicly Funded Age Groups	# of Eligible Doses	Vaccine Intervals	High Risk Eligibility Criteria
	Ніь	D years Bone marrow or solid organ		Asplenia (functional or anatomic) (1 dose)     Bone macrow or solid organ transplant recipients (1 dose)	
	DTaP-IPV-Hib	5-6 years	1 or 3	For HSCT - See Table 9	Cochese implant recipients (geo/post implant) (1 dose)     Hernatoposites inten oul transplant (IRCT) recipients (3 doses)     Instrussocorgeomised individuals related to disease or therapy (1 dose)     Lang transplant recipients (1 dose)     Lang transplant recipients (1 dose)     MoRE High risk children filos 6 years of age who require DEAP-IPV and Hill may receive DTAP-IPV and Hill may receive the DTAP-
See the Ontario	HA	>1 year	2	See Table 5	Intravenous drag use     Liver disease (chronic), including bepositis B and C     Men who lasse sets with men
Publicly Funded Vaccine Schedule	нв	>0 years	2 to 4 (+ boosters if required)	See Tuble 7	<ul> <li>Children C years old whose families have immigrated from countries of high povalance IIIIW and who may be expected to IIII Scrient shough their releved families (3 down)</li> <li>Household and security of membrated from the countries and unter cases (3 down)</li> <li>Honory of a security formationed downs (6 down)</li> <li>Lineary of a security formationed downs (6 down)</li> <li>- presentative infants weighter (2000 grams at birth (4 downs)</li> <li>- presentative infants weighter (2000 grams at birth (4 downs)</li> <li>- between the weighter (2000 grams at birth (4 downs)</li> <li>- between the weighter (2000 grams at birth (4 downs)</li> <li>- between the weighter (2000 grams at birth (4 downs)</li> <li>- between the weighter (2000 grams at birth (4 downs)</li> <li>- Available from the weighter (2 downs)</li> <li>- Man who have sex with most (3 downs)</li> <li>- On read dalphin or those with discussion requiring frequent receipt of blood products (e.g. hemsephila) (2 mail 27 downs only)</li> <li>- On read dalphin or those with discussion requiring frequent receipt of blood products (e.g. hemsephila) (2 mail 27 downs only)</li> </ul>
	HPV-4	Males 9 to 26 years	2 to 3	See Tables 10 and 11	Men who have sex with men
	4CMenB	2 months to 17 years	2 to 4	See Table 13	Acquired complement deficiencies (e.g., receiving eculinamab)
	Men-C-ACYW	9 months to 55 years	2 to 4 + boosters	See Table 14	Asplenia (functional or anatomic)     Cochlear implant recipionis (pre/post implant)     Complement, properlyin, factor D or primary antibody deficiencies
	Men-P-ACYW	ə56 years	1	See Table 14	• HIV
		6-11 months	1	See Table	Infants who will be traveling to areas where disease is a concern  Note: 2 additional doses are required at =1 year of are and at appropriate intervals

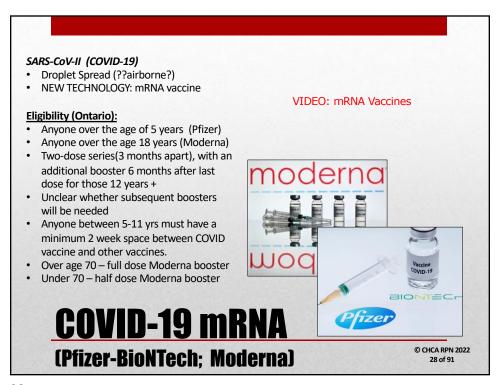
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26





28

#### Pfizer-BioNTech COVID-19 Vaccine

- Multidose vial: Up to 6 doses per vial
- · Dosage: 0.3 mL
- Vaccine: Pfizer-BioNTech COVID-19 Vaccine and Diluent: 0.9% sodium chloride (normal saline, preservative-free)
- Vaccine MUST be mixed with diluent before administration.
- 2-dose series separated by 21 days)
- A series started with COVID-19 vaccine (Pfizer) should be completed with this product.
- Delivered IM into the deltoid

#### Moderna COVID-19 Vaccine

- Multidose vial: 10 doses per vial
- Dosage: 0.5 mL
- 2-dose series separated by 1 month (28 days)
- A series started with COVID-19 vaccine (Moderna) should be completed with this product.
- · Delivered IM into the deltoid

# COVID-19

**Thawing multi-dose vials** 

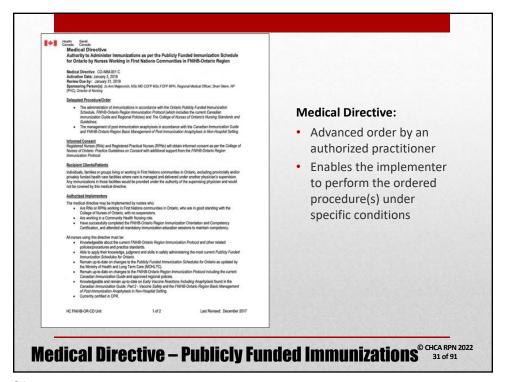
#### Thawing Frozen Vaccine

- Vaccine may be thawed in the refrigerator or at room temperature.
- · Do NOT refreeze thawed vaccine.
- Refrigerator: store Between 2°C and 8°C
- 25 to 195 vials may take 2 to 3 hours to thaw in the refrigerator. Fewer number of vials will take less time.
- Can be stored at Room temperature Up to 25°C for between 30 minutes and 2 hours.
- Vials at room temperature must be mixed with diluent between 30 minutes and 2 hours or returned to the refrigerator.
- At room temperature, gently invert the vial 10 times. Do not shake the vial. If the vial is shaken, discard the vaccine.
- The vaccine is white to off-white in color and may contain opaque particles. Do not use if liquid is discolored.
- Administer within 6 hours.
- · Discard any unused vaccine after 6 hours.
- · Do not return to freezer storage.

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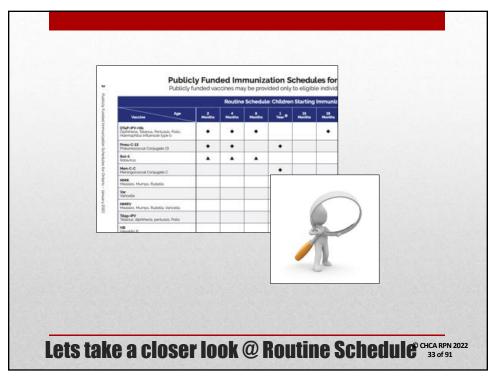
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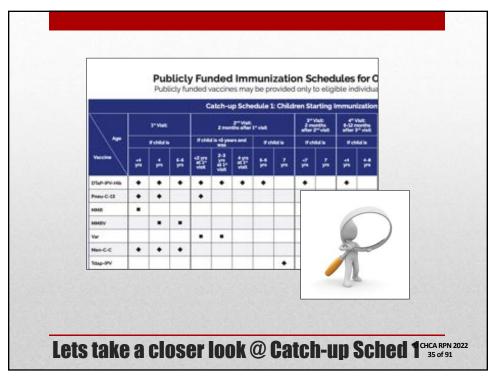
			Routine	Schedule	: Children	Starting	Immuniza	tion in In	fancy	81 77			
Tuno.	Vaccine	Martin	March .	Name .	٠	15	18 Morths	44.	Grade	14 Names	24 Veers	224	SS Venera
d lyman da	DSA-PV-HB Diphotena, Tetanus, Pertussis, Polici, Hoemophilus Influentor type b	•	•	٠			٠						
	Pneu-C-13 Pneu-roccccii Corjugate 13				•								
1	Rot-6 Rotavirus												
8	Men-C-C Meningococcal Corpugate C				٠								
ž.	MMR Moodes, Humps, Rubella									, J			
- January 2025	Var Varionia												
	MMBV Measure, Mumps, Rubella, Varcella												
al.	Titap-IPV Tecanus, sliphilhenia, perhassis, Polisi												
	HIS PROMITION												
	Men-C-ACYW Meningococcal Conjugate ACYW-535												
	HPV-9 Human Popillomevirus												
	Tidap Tidanus, diphtheria, pertusos										٠		
	Til Booster) Tetanus, dightheria											Every 10 pears	
	MZ Herpes Zinder												- 1
	Preu-P-23 Preumococcal Polysacchande 23												
0	lef Influence							*6	ery year in the	Aut			
Ontario 🐨	A single recoine disse given by intram.     A single recoine dose given by subcut.     A single recoine dose given by subcut.     Provided through school based immu.     those series tice false 61 HMV-6 is a by ti	aneous injection nization program 2 dose series is	ns Men-C-AC ser Table ICL E	YW is a single o	Scent HE is a see to given		** Chicle a diose of 15ab is given in schaffwood 184 years of legal solution should reviewe 15 concilient severy 30 years fremedite 1 1-12 in a 2 diose severy 10 years fremedite 1 - 12 in a 2 diose severy 10 years fremedite 1 - 12 in a 2 diose severy 10 years fremedite 1 - 12 in a 2 diose severy 10 years fremedite 1 - 12 in a 2 diose fremedite 1 in a 2 diose of influential 1 - 12 in a 2 diose fremedite 1 in a 2 diose years fremedite 1 - 12 in a 2 diose fremedite 1 in a 2 diose given a 2 diose given 1 in a 2 diose pre-in secret in the section 1 - 12 in a 2 diose fremedite 1 in a 2 diose given a 2 diose given 1 in a 2 diose given 2 diose given 1 in a 2 diose given 1 in a 2 diose given 2 diose gi						

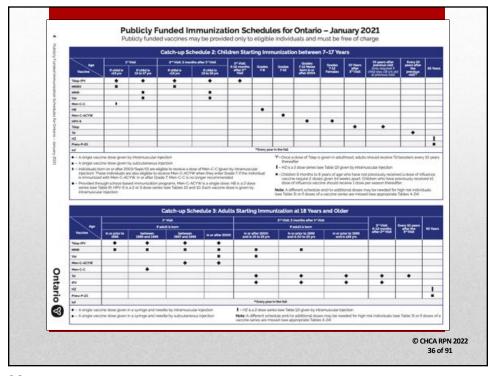
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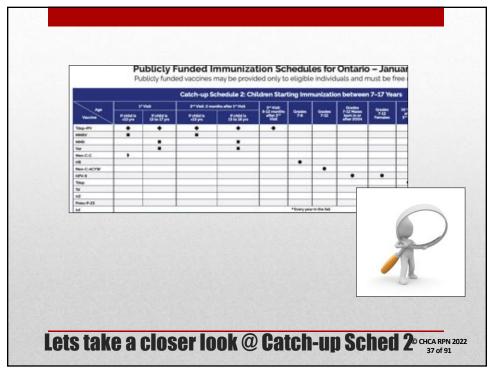
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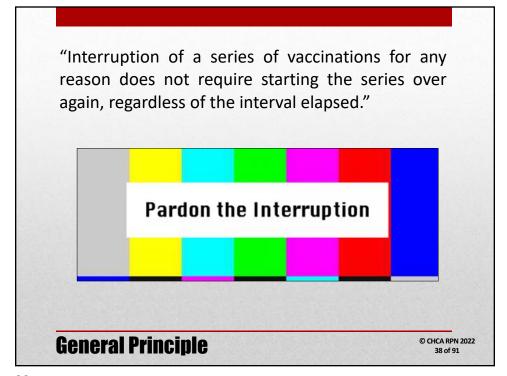
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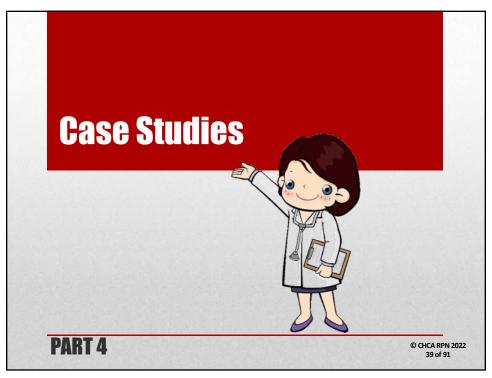


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40

- Ricky, 12 months, is brought in for his well child visit by his parents.
- You notice that he missed his 4 and 6 month well child visits and immunizations.
- What does Ricky require for his immunization catch-up?



· Which vaccines would you review with the family for his next visit?

# Case Study #2 - Ricky

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- Ruby, 65 years of age attends the clinic today for a periodic health exam.
- She said she was watching an episode of Dr. Oz and he talked about vaccines for adults.
- She would like to know what she could receive.
- What immunizations would you discuss with her given her age?

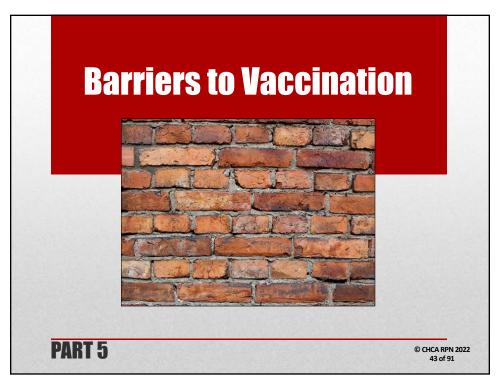


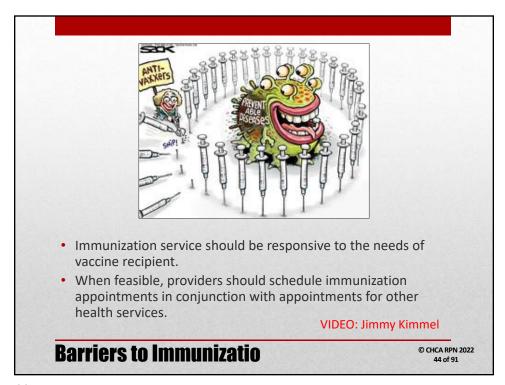
What else would you want to ask her?

Case Study #3 - Ruby

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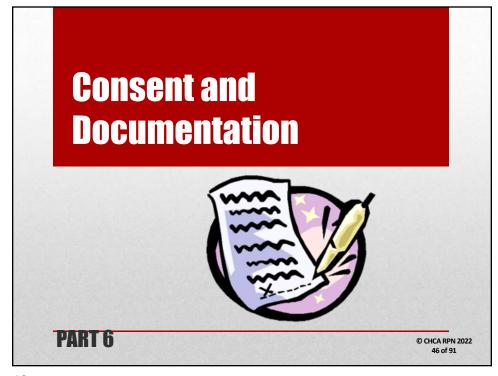
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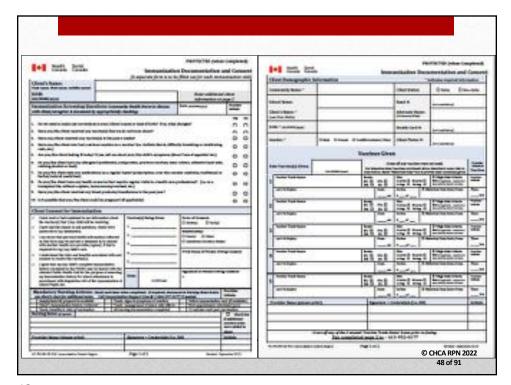
46

- To obtain informed consent for the administration of immunizations parent/guardian or individual must be given information about:
  - the disease related to the vaccine,
  - the component of the vaccine,
  - the immune process and
  - information about the immunization schedule for the vaccine.

# **Informed Consent**

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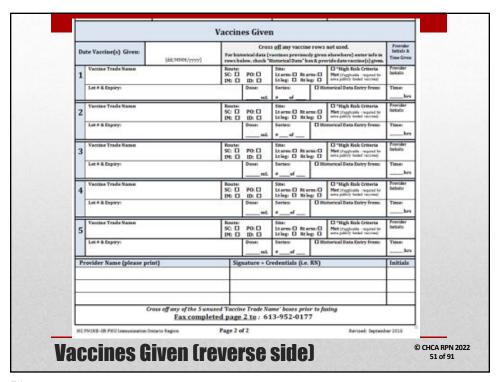


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Client's Name: (last name, first name, middle name)				
DOB: (dd/MMM/yyyy)		Enter additional of information on po		
Immunization Screening Question with client/caregiver & document by app		Date (84/90001/3333)2	Provider Initials:	
W 3.6 P0.65 PE 336 - 1	1980 to 600 million 180	51 520	YES	NO
<ol> <li>Do we need to make any corrections to yo</li> </ol>	ur/client's name or date of birth? If so, wha	t changes?		
2. Have you/the client received any vaccine	(s) that we do not know about?			
<ol><li>Have you/client received any vaccine(s) i</li></ol>	n the past 4 weeks?			
<ol> <li>Have you/the client ever had a serious re rash, etc.)</li> </ol>	action to a vaccine? (i.e. Guillain-Barré, diffic	culty breathing or swallowing,		
<ol><li>Are you/the client feeling ill today? If yes,</li></ol>	tell me about your/the child's symptoms (fe	ver? loss of appetite? etc.)		
<ol><li>Do you/the client have any allergies? (and rubbing alcohol or food)</li></ol>	ibiotics, antipyretics, previous vaccines, late	ex rubber, adhesive band-aids,		
<ol> <li>Do you/the client take any medications of herbal/natural medicines)</li> </ol>	n a regular basis? (prescription, over-the-co	unter medicine, traditional or		
<ol> <li>Do you/the client have any health concer- transplant list, without a spleen, immuno</li> </ol>	ns that require regular visits to a health care compromised, etc.)	professional? (i.e. on a		
<ol><li>Have you/the client received any blood p</li></ol>	roducts/transfusions in the past year?			
10. Is it possible that you/the client could be	pregnant? (if applicable)		0	0

0	I have read or had explained to me informatio the vaccine(s) that I/my child will be receiving	g.	100000000000000000000000000000000000000	s) Being Given:	100	rm of Consent: Written			
0	I have had the chance to ask questions, which answered to my satisfaction.  I am aware that personal health information on on this form may be put into a database &/or with another health care provider/agency, if t	ollected shared	2		Relationship:    Parent   Client     Substitute Decision-Maker    Print Name of Person Giving Consent:				
0	required for my/my child's care.  I understand the risks and benefits associated consent to receive the vaccine(s).	with and	4						
0	I agree that my/my child's complete immuniz		5						
	history contained in the FNIHIS may be shared relevant Public Health Unit for the purpose of my immunization history for school attendand accordance with Regulation 645 of the Immun School Pupils Act.	assessing se in	Date:	66/1005/2222	Signature of Person Giving Consent:				
	landatory Nursing Actions: Checkee sections's chart for additional notes. Call li						Provider Initials:		
-	Anaphylaxis kit prepared & available			nptoms of reaction	Yellow immunization				
	Client's immunization history reviewed			nt of minor side effects	Next appointment sch				
_	Teach: benefits & risks of vaccination	All nur	sing docum	entation completed	15 minutes wait post-				
Nu	arsing Notes (prequire)						☐ Check box if additional nursing notes were added to chart.		
Pre	ovider Name (please print)		Signatu	re + Credentials (i.e.	RN)	9	Initials		
HC	FNIHB-OR PHU Immunization Ontario Region		Page 1	of 2		Revised: Se	ptember 2015		
	Consent / Man			KAKE					

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- Errors must be documented on a med error form and reported to your NIC and/or NPC
   Errors may also be found on documentation form
- Errors may also be found on documentation forms that are sent in for data entry. This must be reported to the immunizing nurse (for clarification) & if warranted, the NIC or zone NPC

This system is not meant to be punitive, rather, to see where more support can be offered to nurses in the field.

ERROR.

Immunization Errors

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- Immune globulins are proteins extracted from blood serum
- It contains antibodies that recognize and attack specific antigens
- Non-specific immune globulins administered intramuscularly are used to prevent Measles and Hepatitis A or B
- Immune Globulins are short acting, therefore, vaccinations need to be given in addition for a long lasting effect
- · Not kept in the community
- Consultation with Public Health needed
- Public Health will ship to community



**Principles: Immune Globulins** 

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Clostridium Botulinum Antitoxin

- Anti-toxins are antibodies that have the ability to neutralize a specific toxin.
- They are produced by injecting animals with a specific toxin.

Examples: diphtheria, gas gangrene, botulism tetanus

Example: Arctic Canada - Igunaq (Inuktitut: ΔJα<sup>5b</sup>)

- Fermented Walrus Meat
- If not prepared properly can cause Botulism
- Botulism Antitoxin kept on hand in Nunavut

# **Principles: Anti-Toxins**

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- Respiratory Syncytial Virus (RSV) is the most common cause of bronchiolitis and pneumonia in infants and young children.
- Synagis: a monoclonal antibody used to prevent severe disease caused RSV infection.
- Testing for RSV done by NP swab, reportable disease in Nunavut.
- Recommended for high-risk infants because of prematurity or another medical problem such as congenital heart disease.
- Synagis provides passive immunity, thus missed doses leave patients unprotected. Ensure all doses are administered on time for maximum protection.
- Does not interfere with the immune response to vaccines and can be administered at the same time as childhood vaccines.



#### Schedule:

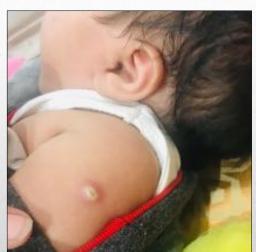
- Supplied in 50 mg vials of sterile powder for reconstitution with sterile water
- Given once monthly, during RSV season: January 1 to May 31
- Max 5 doses.
- Intramuscular injection

**Synagis (Palivizumab)** 

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- Bacillus Calmette—Guérin (BCG) vaccine is a vaccine primarily used against tuberculosis.
- BCG is still given in some Northern Communities (Manitoba, Nunavut) at Birth
- Given in Right deltoid
- Can create an open sore for up to 6 weeks
- Dry dressing only. No topical antimicrobials



**BCG** 

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# **Manitoha**

- SCID testing for all Manitoba newborns as of Sept 2020
- Hospitals no longer be administering BCG immunizations
- All First Nation communities have the ability to provide BCG immunizations
- No TST is required for infants under 6 months of age.
- During prenatal visits, inform the client of changes and the importance of bringing baby to be immunized with BCG
- If timing allows, incorporate postpartum visit and newborn assessment

\*\*\*However if infant is greater than 6 months of age a TST is required.

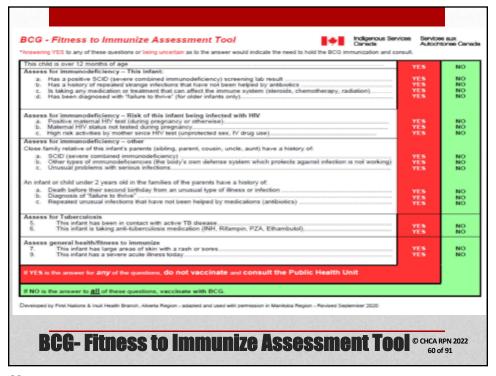
If TST result is greater than 0mm would be considered positive and MOH consultation is required.

**BCG Program Changes for Fall of 2020** 

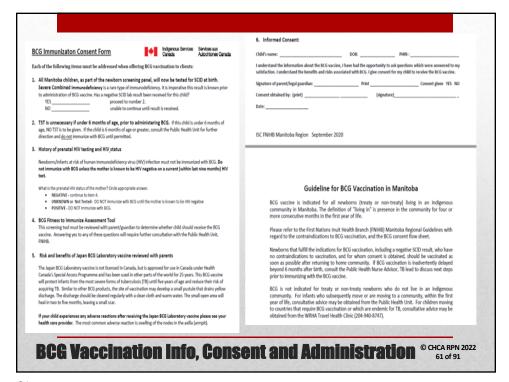
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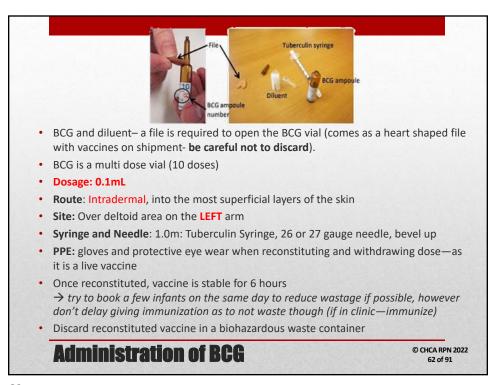
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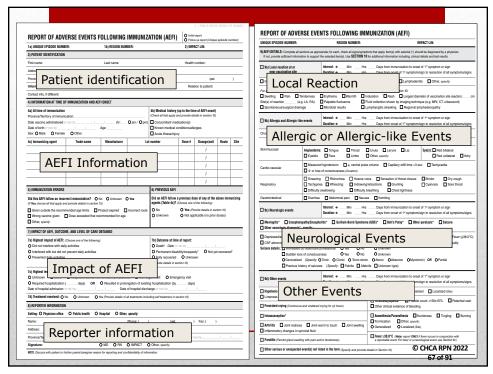


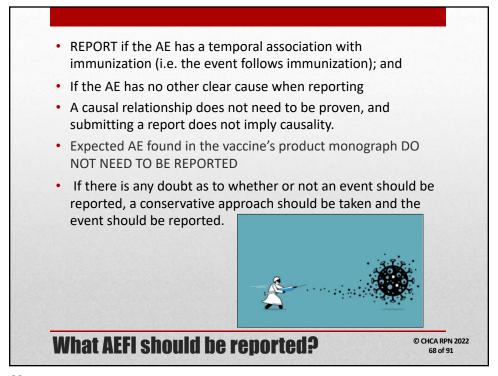
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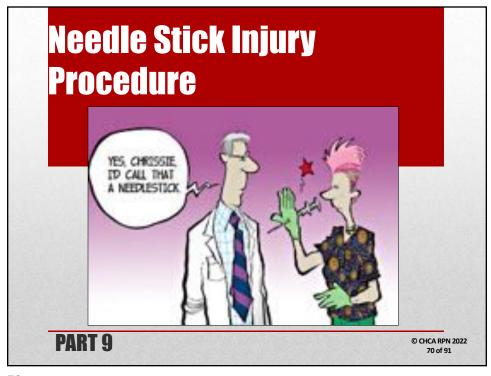
68

- · Stabilize the patient medically.
- Notify the <u>Zone Communicable Disease Nurse</u> by phone immediately, and <u>fax</u> the AEFI form (within 24hrs)
- Inform the patient AEFI will be reported to Public Health unit and Indigenous Services Canada. They will be contacted with recommendations for future immunization.
- Zone CD Nurse forwards copies to the Zone Medical Officer, Local PHU and the Regional Communicable Disease Coordinator
- Copy of the AEFI report with <u>recommendations</u> for future immunization is sent by the Zone CD Nurse
- CHN will review recommendations with patient

# **Procedure for reporting AEFI**

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 Nurses should avoid needle stick injuries by the use of routine practices such as using the correct personal protective equipment and avoiding recapping needles.



Avoid recapping and reduce needle stick injury

**Needle Stick Injuries** 

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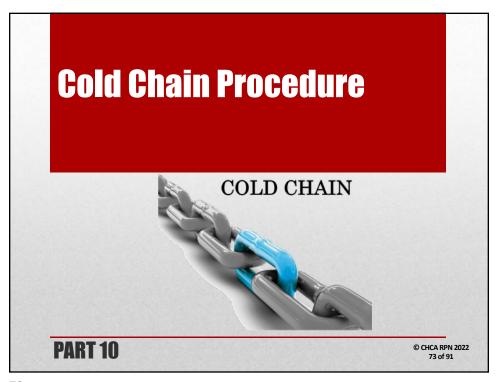
### Most needlestick injuries are low risk!

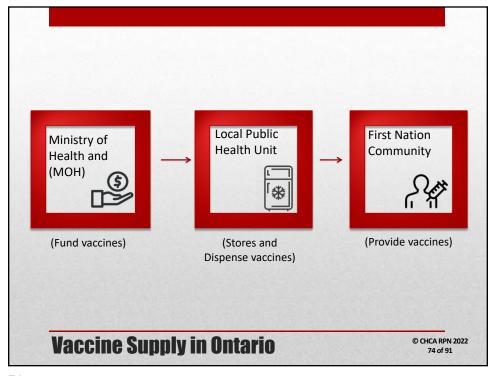
- 1. Inform the NIC of the injury.
- Allow the wound to bleed freely, then vigorously wash with copious amount of soap and water
- Fill out the "Unusual Occurrence form" and forward to the ZNO within 24 hours
- Review client's bloodwork (HBsAg, Anti-HBs, HepC, HIV). If blood status is unknown, obtain consent from the client to draw bloodwork
- 5. Have your own Anti-HBs, Hepatitis C, HIV drawn as soon as possible, then repeat at 1mo, 3mo and 6mo post.
- Consult physician regarding need for post-exposure prophylaxis (PEP) meds. (Available in Nursing Station).

# **Needle Stick Injury Procedure**

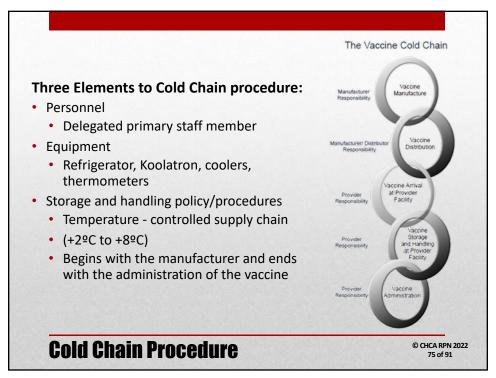
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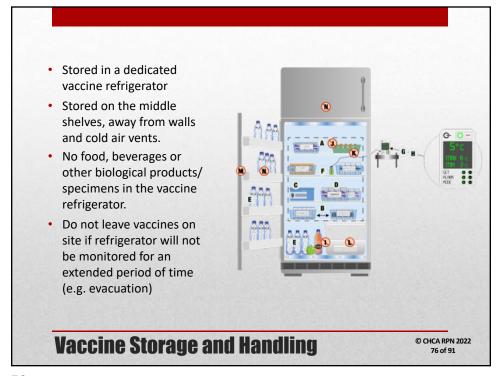
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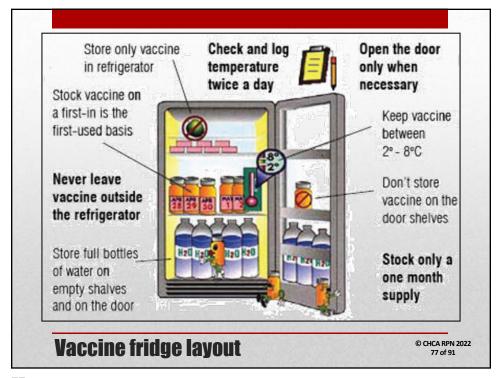


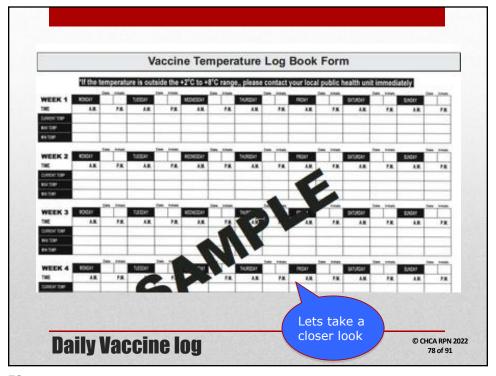
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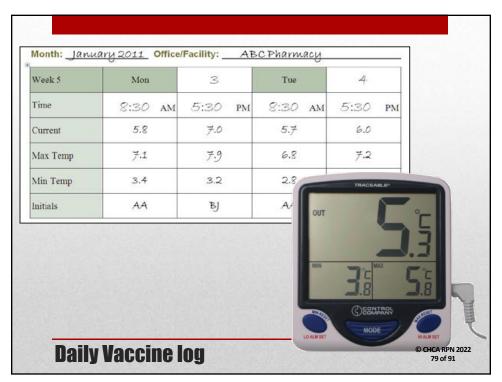


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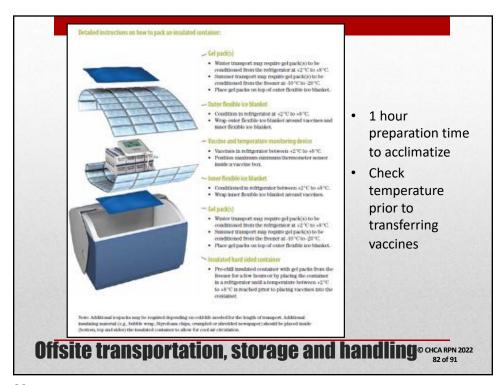
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- **6. Record the date and time** of the last recorded temperature which was in the correct temperature range of +2C to +8C.
- **7. Record the current inventory** of the vaccines inside the refrigerator. DO NOT open the door unnecessarily, this will cause further temperature fluctuations inside the refrigerator.
- **8.** Package the vaccine and label as "DO NOT USE", transfer to a functioning refrigerated unit with the temperature monitor.
- **9. Determine** whether the problem is related to the status of the equipment or an electrical problem.

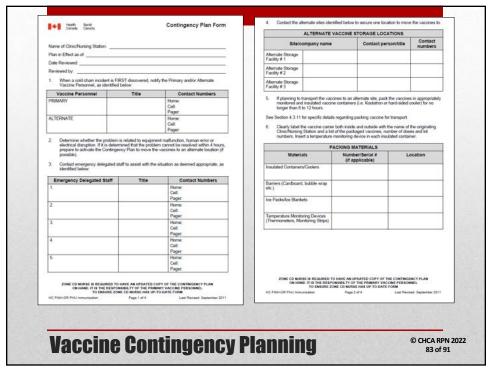
# **Cold Chain Break procedure**

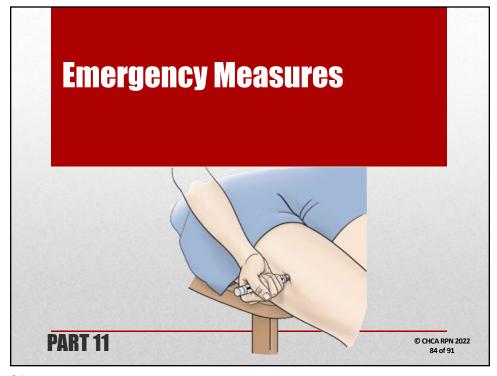
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- Anaphylaxis is an acute hypersensitivity reaction with multi-organ system involvement that can rapidly progress to a severe life threatening reaction.
- Anaphylaxis following immunization is rare.
- Anaphylaxis generally begins a few minutes after injection and is usually evident within 30 minutes.
- Faster onset of symptoms may indicate a more serious reaction.
   Rapid intervention is of paramount importance.

#### Table 1 Mueller's grading for systemic allergic reactions 12

- I Generalised urticaria, periorbital oedema, itching, malaise, anxiety
- II Angioedema or two or more of the following: chest or throat tightness, nausea, vomiting, diarrhoea, abdominal pain, dizziness
- III Dyspnoea, wheezing, or stridor, or two or more of the following: dysphagia, dysarthria, hoarseness, weakness, confusion, feeling of impending disaster
- IV Hypotension, collapse, loss of consciousness, incontinence, cyanosis

# **Identification of Anaphylaxis**

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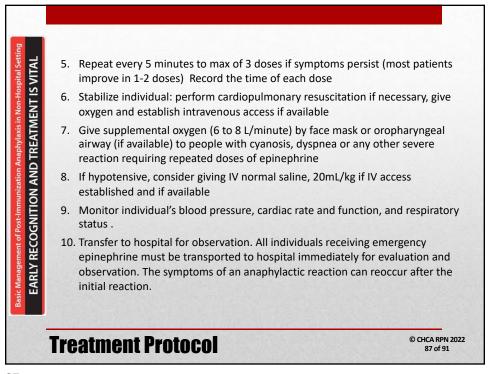
# Post-Immunization Anaphylaxis in Non-Hospital Setting GNITION AND TREATMENT IS VITAL

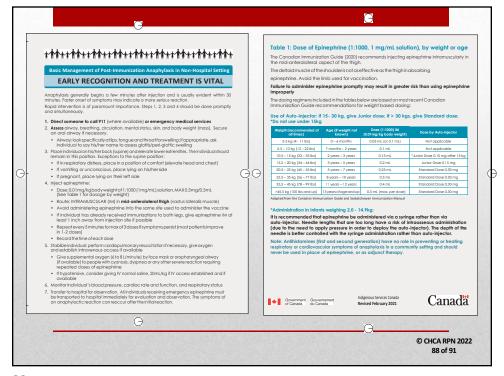
- 1. Directs someone to call a code, assess airway, breathing, circulation, mental status, skin, and body weight (mass). Secure an oral airway if necessary.
  - Airway: look specifically at lips, tongue and throat for swelling; if appropriate, ask individual to say his/her name to assess glottis/peri-glottic swelling
- Place individual on his/her back (supine) and elevate lower extremities. The individual should remain in this position. Exceptions to the supine position:
  - If in respiratory distress, place in a position of comfort (elevate head and chest)
  - If vomiting or unconscious, place lying on his/her side
  - If pregnant, place lying on their left side
- 3. Inject epinephrine:
  - Dose:0.01mg/kgbodyweightof1:1000(1mg/mL)solution,MAX0.5mg/0.5mL (See Table 1 for dosage by weight)
- 4. Route: INTRAMUSCULAR (IM) in mid-anterolateral thigh (vastus lateralis muscle) Avoid administering epinephrine into the same site used to administer the vaccine. If individual has already received immunizations to both legs, give epinephrine IM at least 1 inch away from injection site if possible.

## **Treatment Protocol**

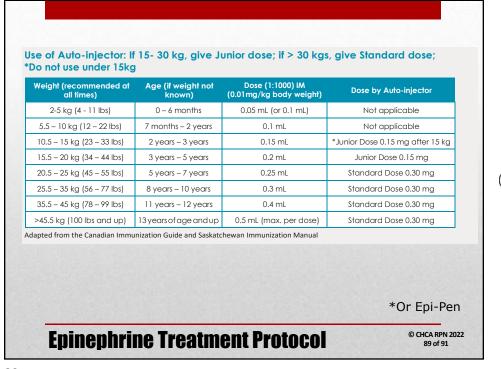
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	Health Facility Name:	Month:		Year:		
	Item	Week 1	Week 2	Week 3	Week 4	
	1000000	Date:	Date:	Date:	Date:	
	Anaphylaxis Pocket Card with Dosage Guide	Present? YN_	Present? YN	Present? YN	Present? YN	
	Epinephrine 1:1000 (Img/ml x 3 vials)	Present? YN	Present? YN	Present? YN	Present? YN	
	And Epinephrine Autoinjectors (Junior x 3 + Adult x 3) (optional)	Expiry: Reorder Date:	Expiry: Reorder Date:	Expiry: Roonder Date:	Expiry: Reorder Date:	-
	1 cc syringe with removable attached	Present? Y N	Present? Y N	Present? Y. N	Present? Y N	
	needle: 25 gauge (1x5/8" and 1x1")	Expiry: Reorder Date:	Expiry:  Reorder Date:	Expiry: Reorder Date:	Expiry: Reorder Date:	
	25 gauge 5/8" needle (x 3)	Present? Y_N_	Present? Y_N	Present? Y_N_	Present? YN	-
		Expiry:	Expiry:	Expiry:	Expiry:	
	25 gauge 1" or 1.25" needle (x 3)	Reorder Date: Present? YN	Reorder Date: Present? Y N	Reorder Date: Present? YN	Reorder Date: Present? YN_	
		Expiry:	Expiry:	Expiry:	Expiry:	
	25 gauge 1.5" needle for large adult (x 3)	Reorder Date: Present? Y N	Reorder Date: Present? Y N	Reorder Date: Present? Y N	Reorder Date: Present? Y N	
	25 gauge 1.5 movuse for sarge soun (x 3)	Expiry:	Expiry:	Expiry:	Expiry:	
	Alcohol Swabs (x 2)	Reorder Date: Present? Y N	Reorder Date: Present? YN	Reorder Date: Present? Y N	Roorder Date: Present? YN	
	Alcohol Swats (x 2)	Expiry:	Expiry:	Expiry:	Expiry:	
	Scissors-capable of removing clothing (1)	Present? YN Reorder Date:	Present? YN Reorder Date:	Present? YN Reorder Date:	Present? YN Reorder Date:	
	Pocket Mask (x 1)	Present? Y_N_ Reorder Date:	Present? Y_N_ Reorder Date:	Present? YN Roorder Date:	Present? Y_N_ Reorder Date:	
	Comments on expired or missing items:					
	CHN Signature:					
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Ensure all	supplies are	stocke	d in Ana	nhylavi	Kits as	ner
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- · Be familiar with the immunizations
- Observe storage & handling procedures to minimize risks & optimize effectiveness
- Use every opportunity to update a person's immunization status
- It is safe & effective to give multiple injections
- Do not defer vaccination unless there is a true contraindication
- Never mix vaccines in the same syringe
- Always give full doses
- Do not re-initiate a primary vaccine schedule
- Always observe a 15 minute waiting period following immunization

Lets wrap it up...

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