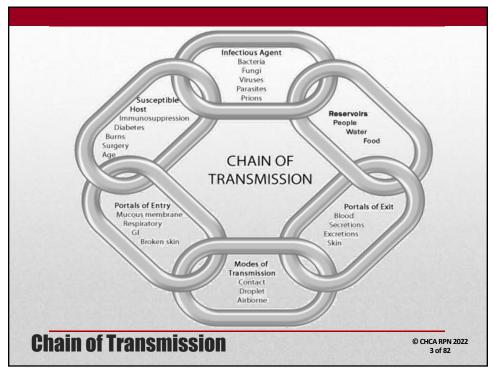
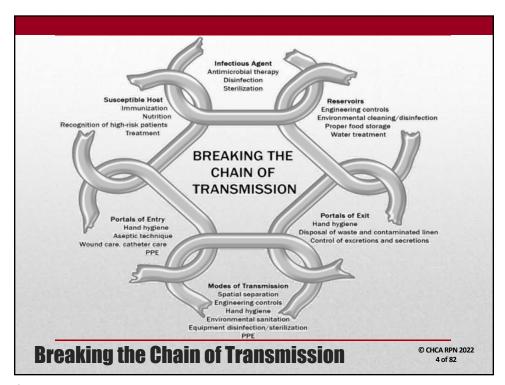


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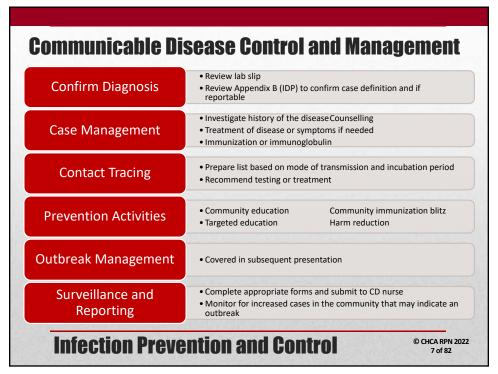


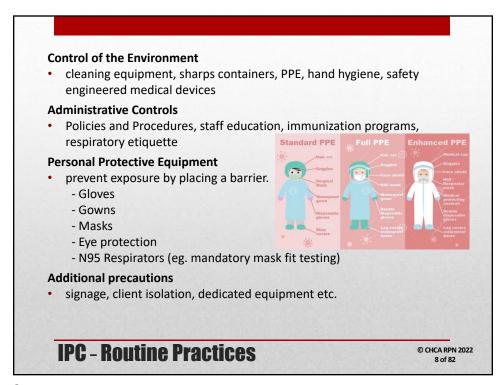
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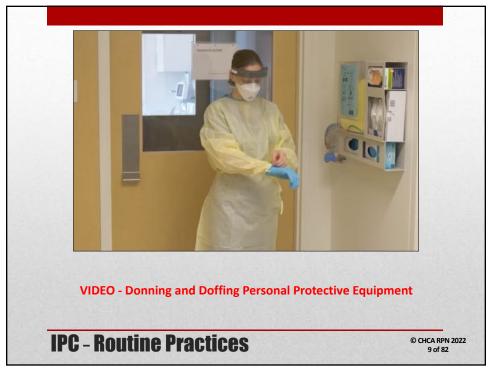


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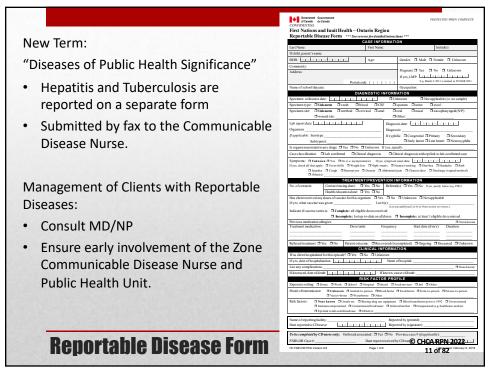


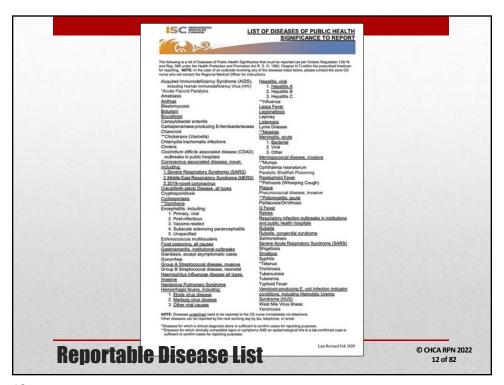
- Gastroenteritis (Bacterial & Giardiasis)
- Varicella
- Viral Hepatitis
- Human Immunodeficiency Virus
- Fifth Disease
- Invasive Group A Streptococcal (GAS) Infection
- Streptococcal Toxic Shock Syndrome
- Mononucleosis (Infectious)
- Rabies Exposure
- Tuberculosis

Common Communicable Diseases

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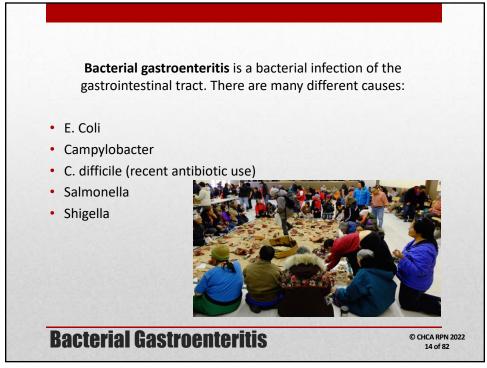
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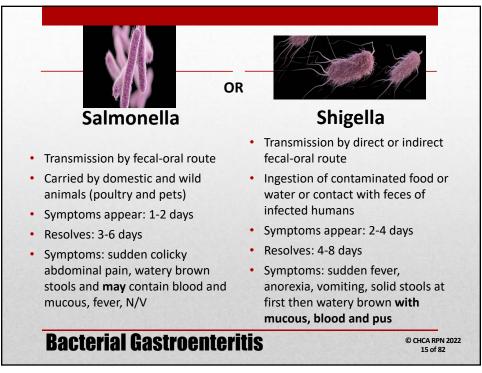


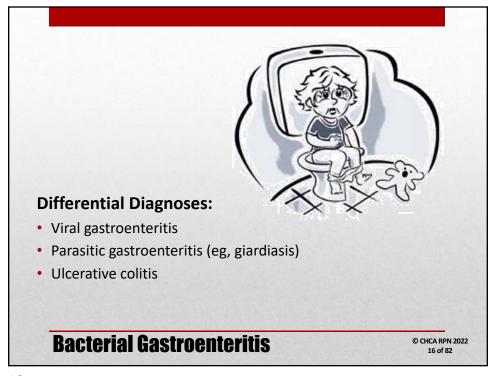
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14





16

Clinical Diagnosis

- Treat based on clinical findings, particularly dehydration and consultation with MD/ NP
- Obtain stool sample (3 consecutive samples preferred) prior to initiating antibacterial treatment
- Repeat in 1-2 weeks to ensure clearance of infection
- Infection with Salmonella, Shigella and E. Coli are reportable communicable diseases.



Gastroenteritis

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Red Flag Scenario:

 Monitor for dehydration, provide Small amounts of Oral Rehydration when possible, or initiate IV if moderate to severe.



Management:

Pharmacologic Intervention

- · If nausea and vomiting are present:
 - dimenhydrinate (Gravol), 25–50 mg IM or IV STAT, then 50 mg PO or PR q4–6h PRN
- IMPORTANT: Do NOT give anti-diarrheal medication (Imodium/ loperamide) as this will slow bacterial clearance
- Consult MD/NP for clients who are immunocompromised and those who have severe symptoms/ dehydration prior to initiating antibacterial treatment.

Bacterial Gastroenteritis

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Causes:

- Giardia lamblia parasite, transmitted by fecal-oral contact
- Person-to-person, ingestion of contaminated water, or venereal transmission by sexually active individuals (particularly homosexual men)

Symptoms:

 Sudden onset of explosive, watery diarrhea, abdominal cramps, nausea/vomiting, foul flatus

Giardiasis Gastroenteritis

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Differential Diagnoses:

- Gastroenteritis (viral, bacterial)
- Amebiasis
- Bacterial overgrowth syndromes
- Crohn's ileitis
- Irritable bowel syndrome

Clinical Diagnosis:

Stool for C&S and Ova and Parasites (3 samples in 2-day intervals)

Management:

- Consult MD/NP generally not needed unless considering a community outbreak.
- Antibacterial, anti-protozoan to treat infection: metronidazole (Flagyl), 250 mg PO TID x 5 days
- Follow up daily for dehydrated patients

Giardiasis Gastroenteritis

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| 15-50 |
|--------|
| |
| 15-180 |
| 14-180 |
| 14-56 |
| |

Symptoms:

- Fever (common in Hep A), nausea/vomiting, lethargy, dark urine, abdominal pain, jaundiced skin and sclera, tender liver on palpation.
- Clinical manifestation of Hepatitis Infection are similar and it is difficult to distinguish between symptoms to diagnose specific virus.
- Clinical History of risk factors may be helpful for diagnosis.
- Serologic testing needed for diagnosis.
- · Also, Liver Function Tests, INR, Glucose and Bilirubin. (consult)

Viral Hepatitis

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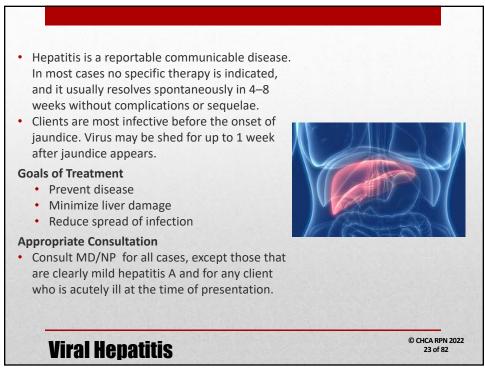
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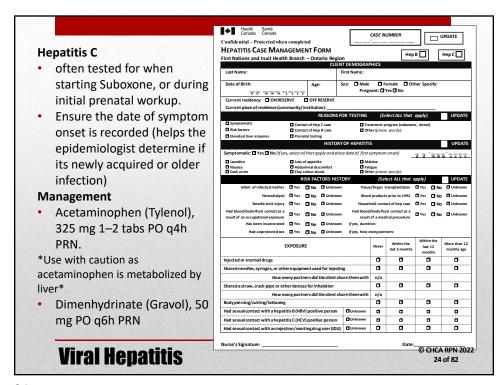
Differential Diagnoses:

- Hepatic cancer
- Cirrhosis
- · Infectious mononucleosis
- · Alcohol-induced hepatitis
- · Drug-induced hepatitis



22





24

Advise community members about the following preventive measures:

- Water purification (boiling of water for 1 minute of a rolling boil) before drinking
- Impeccable hand-washing to reduce fecal-oral spread
- Sanitary disposal of fecal material
- Use of separate linens and dishes may be helpful but proper cleansing of these items is more important

(see CPG for guidance)

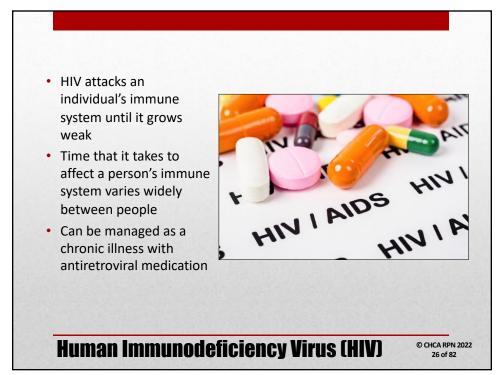


Hepatitis A Immunization is considered the first line of treatment in post-exposure prophylaxis in some jurisdictions.

Community Outbreaks of Hepatitis A

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Clinical characteristics:

· Insidious onset of disease, fever, diarrhea, weight loss, fatigue

May present with infections such as:

- Pneumocystis jiroveci pneumonia, Cryptosporidiosis, Toxoplasmosis
- May have unusual cancers or conditions like wasting syndrome, or encephalopathy

Acquired Immunodeficiency Syndrome (AIDS) © CHCA RPN 2022 27 of 82

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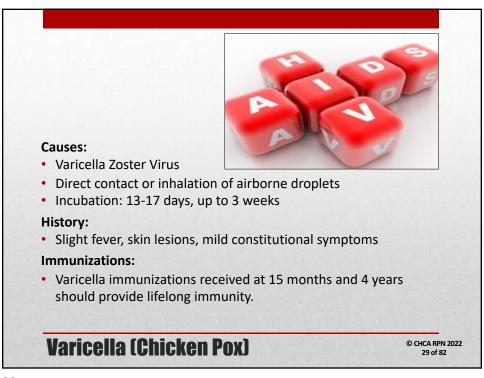
- Sierra Kakegamick, a 2 year old female attends the clinic with her grandmother and mother with history of fever for two days and complaints of a red, itchy rash on her torso starting this morning.
- Her family moved back to Ontario from Manitoba when she was 15 months old, and her immunizations were overlooked.
- She was recently in Thunder Bay with her parents.

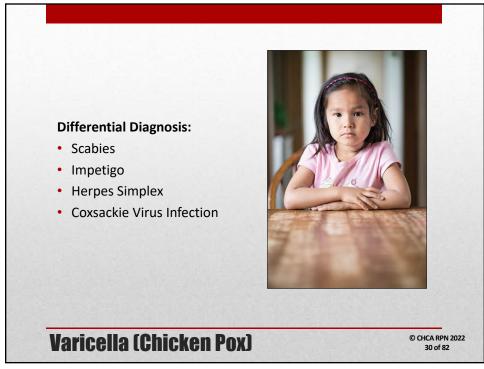


Clinical presentation #2 - Sierra

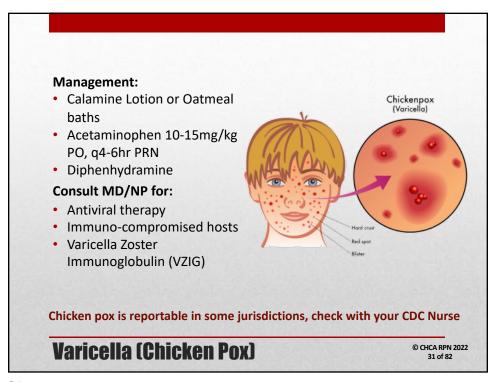
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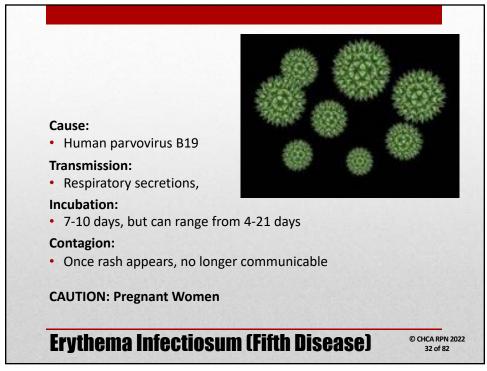
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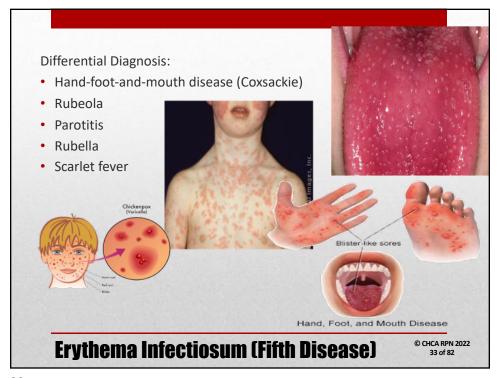


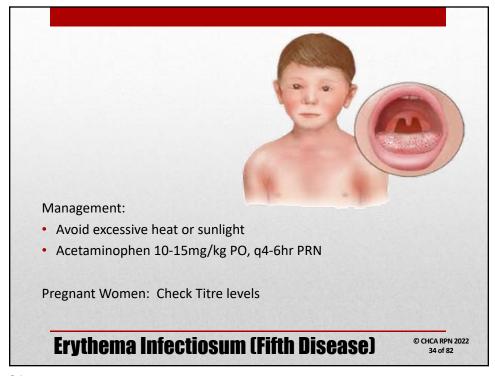
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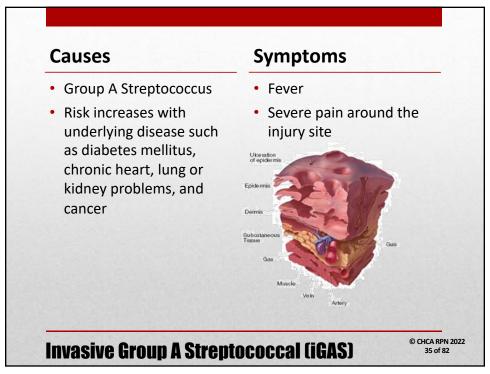


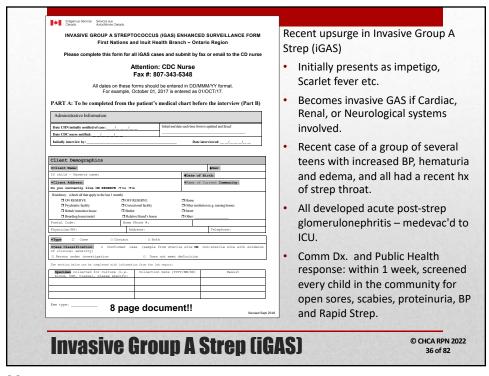
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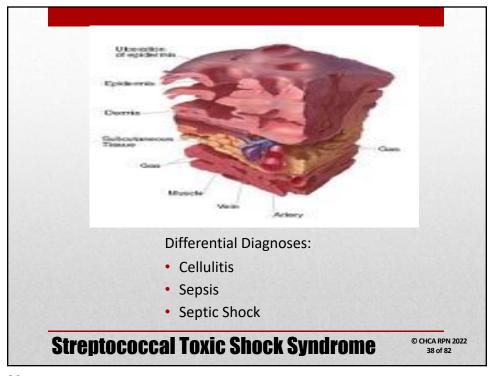




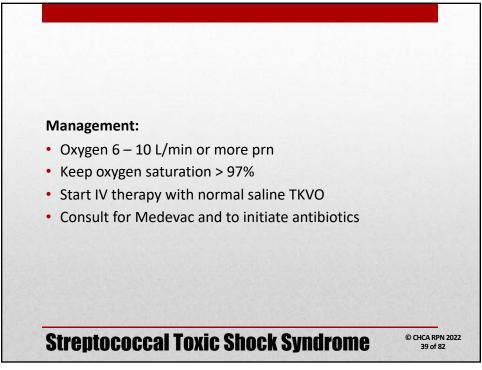
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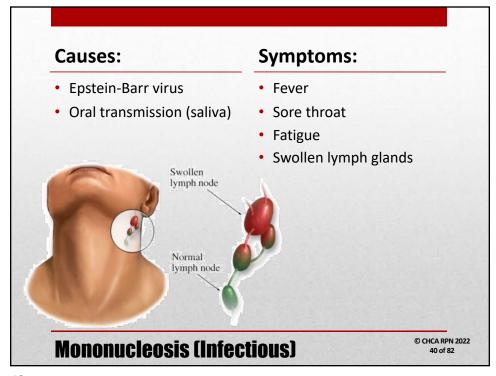
Must present with following clinical signs within 48 hours: • Hypotension (SBP≤90 mmHg) • 2 or more of: • Renal impairment • Coagulopathy • Liver involvement • Acute respiratory distress syndrome Streptococcal Toxic Shock Syndrome

37



38





40

Differential Diagnoses:

• Group A streptococcal (GAS) pharyngitis

• Hepatitis

• Viral pharyngitis

• Cytomegalovirus infection

• Toxoplasmosis

Bloodwork:

• CBC (increased WBC count)

• Monospot

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Management:

- Ibuprofen (Motrin), 200 mg, 1-2 tabs PO q6h prn OR
- Acetaminophen (Tylenol), 325 mg, 1–2 tabs PO q4h prn

Mononucleosis (Infectious)

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Causes:

- Transmitted by saliva from rabid animal bite that penetrates the skin
 Initial Symptoms:
- Headache, fever, malaise, poor appetite, tingling or itching at the bite site

Symptoms after 2-10 days:

 Hyper excitability, anxiety, hyper salivation, muscle spasms, delirium, convulsions

Rabies Exposure

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Differential Diagnoses:

- Delirium tremens
- Drug reaction
- Acute psychosis
- Tetanus
- Meningitis

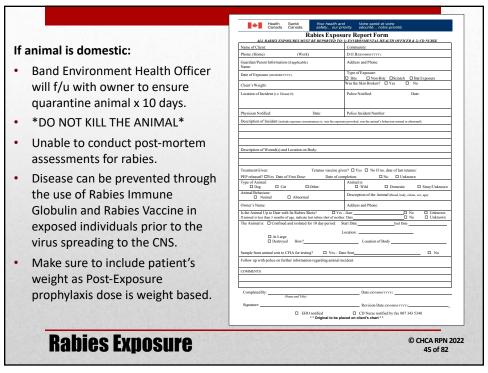


Important to complete and submit Rabies reporting form to Communicable Disease Nurse and Environmental Health Officer as soon as possible

Rabies Exposure

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Management:

- Wash with soap and water, then rinse with antiseptic
- Consult a MD/NP immediately if rabies exposure is suspected or cannot be ruled out.
- The CD Nurse or Medical Officer of Health to determine if rabies vaccine and immune globulin necessary
- · Do not suture the wound
- If required, Tetanus Vaccine IM (first day of treatment)

Rabies Exposure

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Pharmacologic Intervention:

IMOVAX Rabies 1 mL IM on days 0, 3, 7, 14 and 28

AND

Rabies Immune Globulin (HyperRAB S/D) by pt. weight

- If anatomically feasible, the full dose of Rabies Immune Globulin should be infiltrated into area around and into exposed wounds
- Any remaining volume should be injected IM at a site distant from vaccine administration (eg. opposite limb).
- If multiple wounds, all sites should be infiltrated, if possible

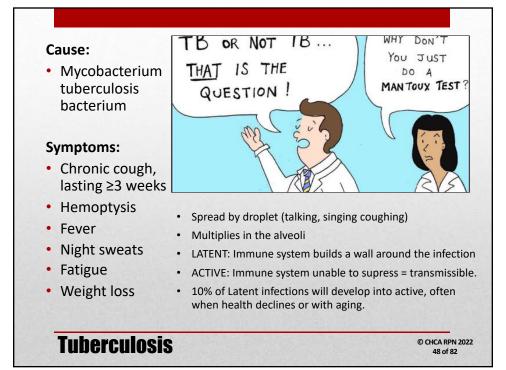
Public Health Unit/ CDC Nurse will collaborate with CHN to ship the treatment into community ASAP. (not normally stocked in community)

The client should not have live vaccines within 4 months of being given Rabies Immune Globulin.

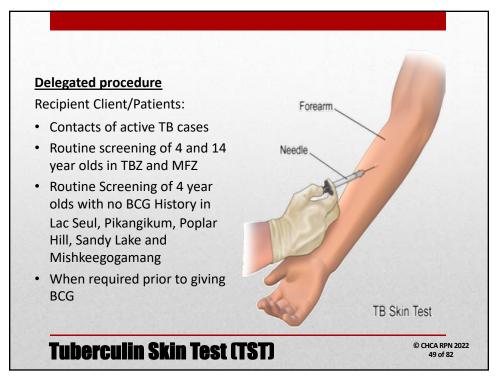
Rabies Exposure

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| Client Demogra | phic Information | Skin Test Fo | | quired information |
|---|--|---|--|---|
| *Community Name | | | | |
| *Client's Name | | | | |
| | (Last Name, First Name, Middle Initial) | Alternate Name | | |
| *Unique Identifier (OHIP # | | *DOB: DD-MMM-YY | ſΥ | |
| Panorama Identifier | | · Control Division | Female Undifferentiated | |
| Band Number | | Gender: Lineau | | |
| Tuberculin Scree | ening Questions (to be completed by the Co | enmunity Health Nurse | look in client chart for previous T | STs or TB history) |
| Have you/has your | | ac . | | 0 0 |
| | child ever had a TB skin test on their forearm t | hat caused a blister? | | |
| | | | | 0 0 |
| | child ever had a TB skin test that caused a bump | | | |
| Have you/has your zoster or live atten | child had a live vaccine in the past 4 weeks? (me nated influenza vaccine [ie. Flumist])? | asles, mumps, & rube | lla, varicella, yellow fever, herpes | 0 0 |
| If the | client answers YES to ANY of the above 4 ques | tions then they shoul | d NOT have a tuberculin skin tes | t. |
| Consent for Tube | rculin Skin Test (TST) | | | |
| | lained to me information about the TST. | *Form of Consent | : Written Verbal | |
| I have had the chance satisfaction. | to ask questions, which were answered to my | *Relationship: | ☐ Parent ☐ Client ☐ Substitu | ate Decision-Maker |
| o I understand the risks | and benefits associated with this test. | Print Name of Per | rson Giving Consent: | |
| | nal health information collected on this form may r doctor or nurse if that is required for my care. | | | |
| o I consent to having th | e TST done and I am aware that I am required | Signature of Pers | on Giving Consent: Date: | |
| to return for reading | of the test in 48-72 hours. | | | |
| •Peacon for Testi | Π⊈ (check (✔) one box only) | | | |
| Gontact tracing | Targeted Screening Other: | | | |
| | Targeted Screening Other: | | | |
| | | | | |
| Te | est Specification | *Date of Reading- | Test Results | |
| | est Specification | *Date of Reading: DD-MMM-YYYY | Test Results | |
| *Date of Test: | est Specification | *Date of Reading: DD-MMM-YYYY | Test Results | |
| "Date of Test: DD-MMM-YYYY | e Site | DD-MMM-YYYY | Test Results | |
| *Date of Test: DD-MMM-YYYY *Time of Test: | e: Site: Inner aspect of Rt forearm Inner aspect of Lt forearm | DD-MMM-YYYY | man measurement is mandatory for | all results) |
| "Date of Test: DD-MMM-YYYY "Time of Test: Dose: Rout | e Site | *Time of Reading: *Induration: | | to page 75 of the |
| *Date of Test: DD-MMM-YYYY | e: Site: Inner aspect of Rt forearm Inner aspect of Lt forearm | DD-MMM-YYYY *Time of Reading: *Induration: *Check only one: □ Positive → Fill- | tion (rem measurement is mandatory for Per interactation of results refer | to page 75 of the |
| "Date of Test: DD-MMM-YYYY "Time of Test: Dose: Roun Lot # Expiry Date: | E: Side: Innor aspect of Rt forearm Innor aspect of Lt forearm Other. | *Time of Reading: *Induration: *Check only one: Positive → Fill e Negative | mim (nun neasurement in machitory for For interpretation of results refer Canadian TB Standards, 7-a Edition | to page 75 of the |
| "Date of Test: DD-MMM-YYYY "Time of Test: Dose: Roun Lot # Expiry Date: | E: Site: Inner aspect of Rt forearm Inner aspect of It forearm Other. Other | DD-MMM-YYYY *Time of Reading: *Induration: *Check only one: Positive → Fill e Not Read | mm (mm measurement in mandatory for For interpretation of results refer Canadian 28 Randords, 7-2 Edition but LTBI Report Form | to page 75 of the 1, or as current |
| "Date of Test: DD-MMM-YYYY "Time of Test: Dose: Rout Let # Expiry Date: "Pisace note 2 step Man Sep 1 of 2 | E: Site: Inner aspect of Rt forearm Inner aspect of It forearm Other. Other | DD-MMM-YYYY *Time of Reading: *Induration: *Check only one: Positive → Fill e Not Read | mm (mm measurement in mandatory for Fre interpretation of results rept Canadian #F Standardt, 7º Edition 17 Standardt, 7º Edition to LTEBI Report Form follow up required form TB/ COC Nurse / Physician | Repeat TST |
| "Date of Test: DD-MMM-YYYY "Time of Test: Dose: Rout Let # Expiry Date: "Pleases note 2 step Man Dordering Physician Nam Ordering Physician Nam | Size Same aspect of Rt forearm Same aspect of It for | DD-MMM-YYYY Time of Reading: *Induration: *Check only one: Positive → Fill e Nor Read Follow Up: Induration: | mm (mm measurement in mandatory for Fre interpretation of results rept Canadian #F Standardt, 7º Edition 17 Standardt, 7º Edition to LTEBI Report Form follow up required form TB/ COC Nurse / Physician | Repeat TST Chest X-Ray |
| "Date of Test: DD-MMM-YYYY "Time of Test: Doss: Root Lot # Explry Date: "Phise note 2 step Man Step 10 22 Ordering Physician Nam Print Name of Provider: | Size Same aspect of Rt forearm Same aspect of It for | DD-MMM-YYYY "Time of Reading: "Induration: "Check only one: Positive > Fill 4 Negative > Mean of Police Up: Print Name of Prov | (non measurements in mandatory for Surpression Committee (non measurements) in mandatory for Surpression Committee (Non-March 1997) (Non-March | Repeat TST Chest X-Ray |
| "Date of Test: DD-MMM-YYYY "Time of Test: Doss: Root Lot # Explry Date: "Phise note 2 step Man Step 10 22 Ordering Physician Nam Print Name of Provider: | in Size Inner rapect of Its forearm Inner rapect of Its fo | DD-MMM-YYYY "Time of Reading: "Induration: "Check only one: Positive > Fill 4 Negative > Mean of Police Up: Print Name of Prov | (non measurements in mandatory for Surpression Committee (non measurements) in mandatory for Surpression Committee (Non-March 1997) (Non-March | Repeat TST Chest X-Ray |
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50



| TST Reaction Size | Situation When Result is Considered Positive |
|-------------------|---|
| 0 - 4mm | In general this is considered negative and no tx is indicated Child less than 5 years and high risk of TB infection |
| 5 - 9mm | HIV infection Contact with infectious TB within the past 2 years Fibronodular disease on chest x-ray (healed TB but not previously treated) Organ transplantation (related to immune suppressant therapy) TNF alpha inhibitors Other immunosuppressive drugs e.g. corticosteroids End-stage renal disease |
| ≥10mm | TST conversion (within 2 years) Diabetes, malnutrition Silicosis Hematologic malignancies |
| TST interp | retation |
| | © CHCA RPN 202 52 of 82 |

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Latent Infection (LTBI)

- Primary infection but patient does not have active disease and cannot transmit the organism to others.
- The risk of active disease is high in certain groups of people with latent infection

Active Disease

 The person has active disease and is contagious when they have high numbers of tubercle bacilli with involvement of the respiratory tract.

Differential Diagnoses:

- · Chronic or subacute pneumonia
- Chronic obstructive pulmonary disease (COPD)
- Bronchiectasis
- Lymphoma or other malignancy
- Fungal infection

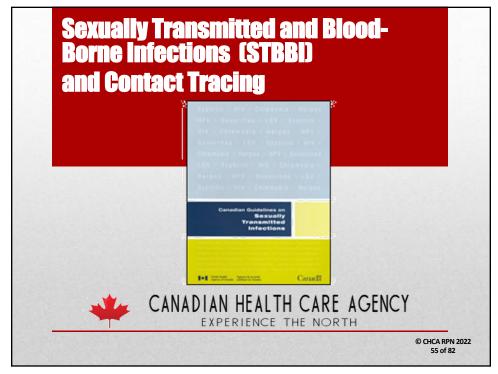
Tuberculosis – Latent vs Active

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| | Usually Daily Dosage (mg) | Adverse Reactions |
|--------------|---|--|
| Isoniazid | 300 | Hepatitis, paresthesia |
| Rifampin | 600 | Drug interactions, flu-like illness |
| Pyrazinamide | 1500-2000 | Hepatitis, elevated serum level of uric acid |
| Ethambutol | 800-1600 | Ocular toxicity |
| Streptomycin | 1000 | Vertigo, tinnitus, renal failure |
| | it - Latent Infection INH), 5 mg/kg to m | ax 300 mg PO od for 6–12 |
| months | | |

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General History

- Site of sexual contact (vaginal, oral, anal)
- · Sexual orientation
- · Use of condoms
- · Number of past sexual partners
- · History of sex with injection drug users
- · Present symptoms of STBBIs in client or his/her partner

History

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Specific History

Men

- Urethral discharge (amount, colour and time of day)
- Dysuria
- Itch
- Pain or swelling in scrotum or inguinal region

Women

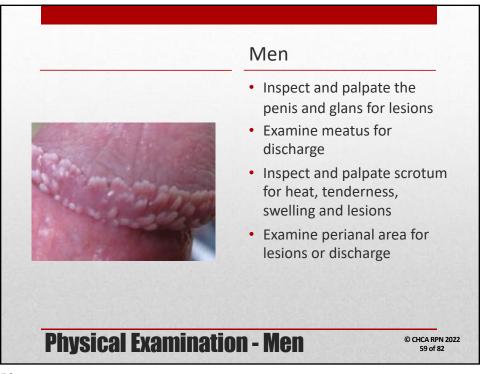
- Vaginal discharge (amount, colour, vaginal itch)
- Burning sensation with urination
- Painful intercourse with penetration
- Post-coital, mid-cycle or excessive menstrual bleeding

80-90% of patients with Chlamydia/ Gonorrhea are asymptomatic

History

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Women Inspect and palpate the external genitalia to detect lesions, swelling, discharge Observe amount and colour of vaginal discharge Examine and visualize the cervix via a speculum examination Is a Pap due? Wait till after treatment to conduct a pap test. Physical Examination - Women

60

| Symptoms | Possible STI Syndrome |
|--|--|
| Urethral discharge, burning on urination, itch | Urethritis |
| Painful genital ulcers or lesions | Genital ulcer disease (eg. genital herpes, syphilis) |
| Acute onset of unilateral scrotal pain or swelling | Epididymitis |

| Symptoms | Possible STI Syndrome |
|---|---|
| Vaginal discharge, odour, genital itch | Vulvovaginitis (eg. Trichomonas vaginalis) |
| Recent onset of abdominal pain, vaginal bleeding, deep dyspareunia | Cervicitis, pelvic inflammatory disease |
| Painful genital lesions or ulcers, painful inguinal lymphadenopathy | Genital ulcer disease (e.g. genital herpes, syphilis, cancroid) |

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Module 8: Public Health, Communicable Diseases, Sexually Transmitted Infections and Contact Tracing RPN

- Consult for orders to test and treat
- Urine NAAT for GC/CT first catch urine, 2 hrs post void
- Test and treat same day for symptomatic contacts
- Swabs including cervix, rectum and pharynx can be cultured
- Test for Chlamydia, N. gonorrhoea, Trichomonas, Bacterial Vaginosis
- Serology (blood serum) sample for VDRL test for syphilis, hepatitis B and C, and HIV.

Diagnostic Tests

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Non-Pharmacologic Interventions

- Advise client of appropriate administration of medications
- Counsel the client about abstinence x 1 week after treatment
- Teach client about barrier methods for protection during intercourse
- Provide condoms
- Test of cure only indicated for prenatal patients

Management

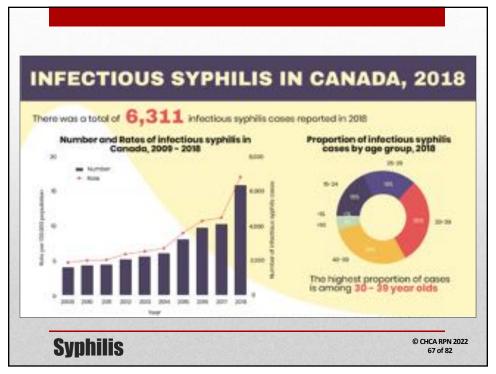
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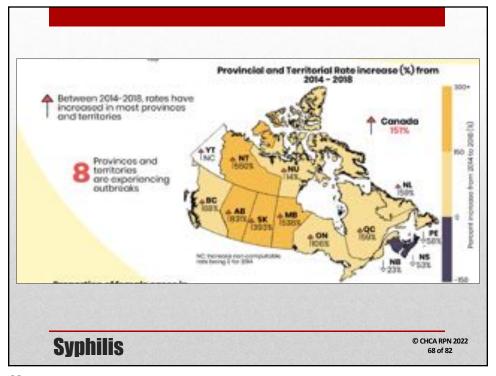
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| Public Confession Search Confe | Con recorded communities (and principles) De Epocher Chapper) principle of and communities or an incommunities of an incommunities or an incommunities of an incommun | HIV Serology Test Requisition • MD/ NP order for testing |
|--|--|--|
| Process Address report or Protect Library States Physician Referring Laboratory On 10 | Reason for MSY satisfy ones of not upon Reason (In Management In Management I | In Ontario can be nomina or anonymous. |
| Provide: Statements estimated Physician (Statements estimated Physician (S) entering Test Assess From John | © ACE of the victor reside drawse of the victor reside system beautify | Anonymous testing at 50 sites in the province |
| For hards other than NY and NTUE and the PRE, test majorition PALASE FOR THE SECOND SECOND PALASE FOR THE SECOND SECOND SECOND PALASE FOR THE SECOND | | Prenatal women offered HIV testing at initial Prenatal workup. |
| where a select it is aspected of being in the window parties of unifier other appeals or unified matter and appeals or committee the appeals of the committee o | Calcinatory Use Only | Offer HIV testing regularly especially to IV drug user |

| | Sections of this form must be | e completed at every visit | Ontario Public Health |
|--|--|---|--|
| 1- Submitter | | 2 - Patient Information | |
| House Annual Chy & Pressure Facial Code | | Health Cert No: Sex Male Female Date of Birth (projekneds) Last Name per health card: First Name per health card: Address. | General test Requisition |
| Clinician initial / Sumame and | OHP / CPSO No.: | Accress | |
| Telephone | Fac | Pestal Phone Number: | |
| cc Doctor / Qualified Health | Care Provider Information | Code: Submitter Lab No.: | C 1:1: (\(\text{IDD} \) |
| Name: | Nr. | Public Health Unit Outbreak No. | Syphilis (VDRL) |
| Lab / Clinic Name: | Fax: | Public Health Investigator Information | - / - / |
| CPSO No. | | Name: | |
| | Postal Code: | Health Unit: | Hanatitic R |
| Address | Portal Code | | I ICDULIUS D |
| 3 - Test(s) Requested of Test: Enter test description test 4 - Specimen Type and | isade sas descriptions on neverse) ** | Text Fax: | Hepatitis BHepatitis C |
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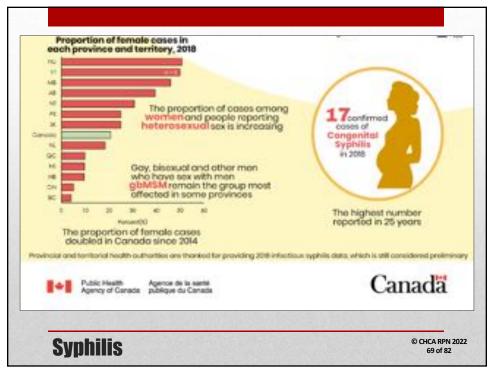
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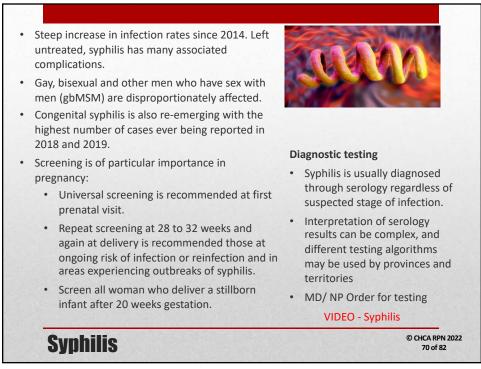


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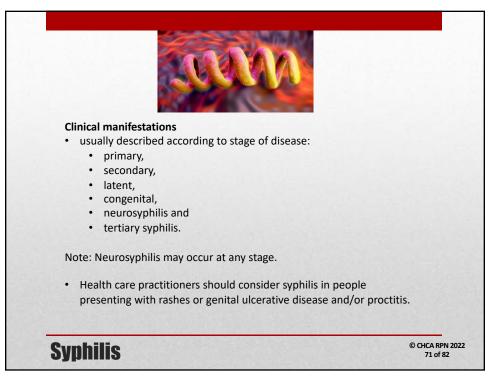
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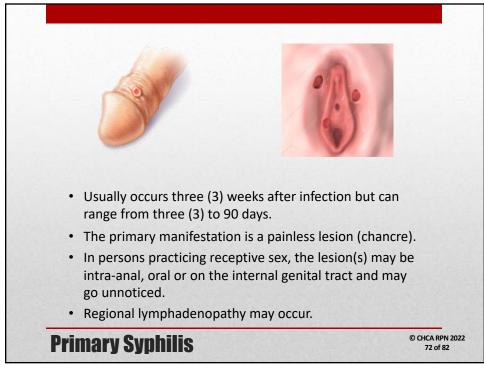


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Module 8: Public Health, Communicable Diseases, Sexually Transmitted Infections and Contact Tracing RPN

Secondary syphilis

- Typically starts with the development of a rash.
- The characteristic rash of secondary syphilis may appear as rough, red, or reddish brown spots on the palms of the hands and the bottoms of the feet.
- Rashes with a different appearance may occur on other parts of the body and may be so faint that they are not noticed.
- Signs and symptoms usually occur between two (2) to 12 weeks, but can occur up to six (6) months after infection and may include:
 - Rash
 - Fever
 - Malaise
 - Headaches
 - · Mucosal lesions
 - Condylomata lata
 - Lymphadenopathy
 - · Patchy or diffuse alopecia
- Secondary syphilis can also manifest with signs and symptoms of:
 - · meningitis (e.g. headaches),
 - uveitis/retinitis (e.g. blurred vision, eye redness, flashes or floaters) or
 - otic symptoms (e.g. hearing loss, tinnitus).

Secondary Syphilis

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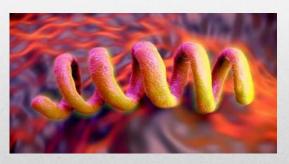
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Early latent syphilis

• Asymptomatic infection of less than one (1) year duration.

Late latent syphilis

• Asymptomatic infection of more than one (1) year duration.



Secondary Syphilis

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Treatment – Needs MD/ NP order

Infectious syphilis (primary, secondary and early latent stages):

- · Long-acting Benzathine Penicillin G
- 2.4 million units intramuscular as a single dose.

Longer duration syphilis (late latent and tertiary syphilis):

• Three (3) weekly doses of Benzathine penicillin G-LA 2.4 million units IM.

Neurosyphilis

 requires more aggressive treatment with intravenous antibiotics, and should be managed by, or in consultation with, an infectious disease specialist.



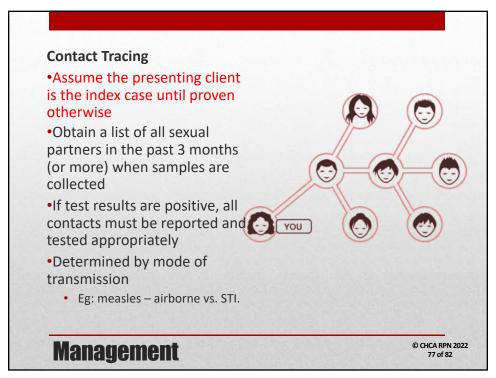
Follow-up

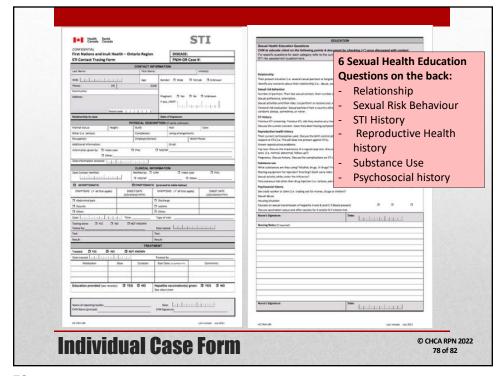
- Post treatment serologic testing is used to assess treatment response.
- It should be done at recommended intervals, which vary depending on stage of infection.

Syphilis

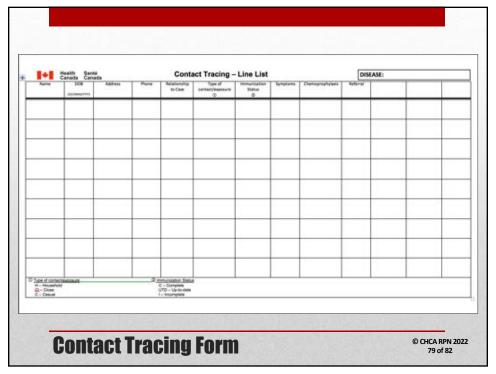
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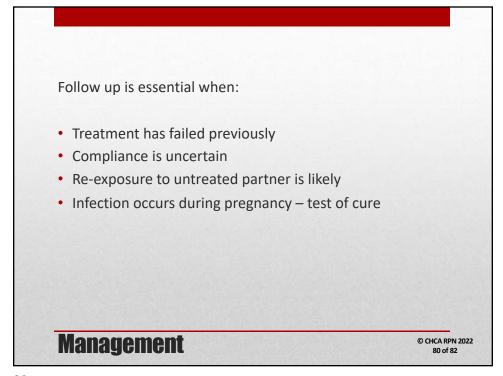
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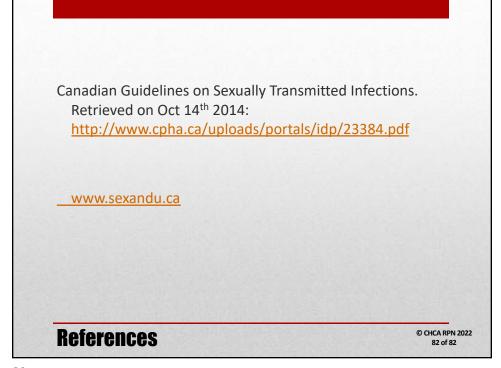
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