

Rutgers

Polling Question 1:

Which of the following best describes your experience with pediatric TB?

A) I am currently managing care for a child or adolescent with active TB or TB infection

B) I have never managed TB care for a child or adolescent

C) I have some experience managing care for a child or adolescent with active TB and/or TB infection

Type in the Chat Box:

 Which regimen do you use in your setting for treatment of TB infection in children?

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Window Prophylaxis Strategies

- Explain to parents about the use of medication will prevent the growth of TB germ if present.
- Explain why in young children they may not initially respond to the TB testing due to immaturity of their immune system.
- Medication is safe, easy to administer, and will protect their child from TB disease.
- Answer questions with simple explanations so that they can understand the purpose of their treatment.
- Stress that when the second TB test is done, if it is negative the medication will be stopped.

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Medication Side-Effects

- In general, children tolerate TB medications well and adverse reactions are rare
- Patients and families should be educated about side effects of medications:
 - Orange or red-colored urine or tears, yellow skin or eyes, nausea, vomiting, abdominal pain, rash, dizziness, flu-like symptoms, easy bruising, joint pain or swelling, etc.
- Instruct parents to contact the TB clinic if these symptoms occur and when to stop medications for serious side effects or adverse drug reaction
- Public health staff providing DOT in the field can also question patients and report to the nurse or physician













Following Sensitivity Patterns

- Ethambutol was not needed because the isolate from the index patient was pansensitive
- It is important to follow the sensitivity pattern of the index patient so that effective treatment can be given



Completion of Treatment

- The child with TB disease was treated for 6 months with excellent adherence
- The LUL airspace lesion was resolved. And there were no adverse effects from treatment
- · The child was discharged from care



Tips for Administering TST

- · Have a syringe prepared just before parent and child enter the room
- Have the parent hold the child, and, if needed, enlist the help of a coworker
- Insert a 27-gauge needle, bevel up, with 0.1mL (5 tuberculin units of PPD) intradermally into the volar surface of the right forearm.
- Creation of a palpable wheal 6 to 10mm in diameter is necessary for accurate testing
- Administration and reading of the TST should be done by experienced health care workers
- The test should be read in 48 to 72 hours. Measurement should be done with use of a ruler transversely to the long axis of the arm
- Measure only induration not erythema
- Positive results after 72 hours can be documented, but a 0 mm reaction after the 72-hour period cannot be recorded. In this scenario, the test must be repeated.
- Do not place any band aid on the testing site.





Medication Administration (1)

General tips for medication administration:

- Administer the medication(s) at same time every day
- Start off on a positive note
- Avoid distractions
- Ignore behaviors that interfere with administration
- · Assess problems and develop an intervention
 - Determine if intervention was successful and what adjustments are indicated in the process





Medication Administration (3)

General tips for administering medications to infants

- · Dissolve medication in 1 teaspoon of warm water
- Mix with small amount of breast milk or formula
- Place in a nipple of bottle for administration
- An oral syringe can sometimes be beneficial
- Schedule at a time when the infant is hungry
- Rarely are more drastic measures needed such as an NG or gastrostomy tube
- It can take up to 2 weeks before a child takes medication without a struggle



Pediatric Risk Assessment Tool



ediatric Tuberculosis (TB) Risk Assessment		RUTCERS Golai Tulesculatio	
Rease select Yes or No for each of the following questions to assist your child's pediatrician:		NJHealth	
Does your child have any symptoms of TB (cough, fever, night sweats, loss of appertite, weight loss, oss playful or energetic, showing signs of being more tired than usual?) Yes	0 No	
tas your child spent time with anyone sick with TB?	O Yes	0 Ne	
n the last 12 months, has your child lived with or spent significant time with anyone with a long-lasting cough?) Yes	O No	
tas your child had a chest X-ray in the past year?	O Yes	O No	
TB is more common in countries in Asia, the Middle East, Africa, Latin America, Eastern Europe and the fi	omer Soviet	Union	
Were you or your child born in a country that is in an area listed above?	O Yes	O No	
In the past 2 years, have you or your child traveled to a country that is in an area listed above?	O Yes	O No	
If yes, did you or child spend most of the time with family and friends or other people in the community?	O Yes	O No	
In the pact 2 years, have you had vicitors from outside of the U.S. vicit your home for at least 14 days? If was abase write which reserve they vicited from:	O Yes	O No	
bet have and monotonich and anone			
Does your child have HTV infection?	O Yes	O No	
Does your child have diabetes?	O Yes	O No	
Does your child have a serious kidney disease?	O Yes	0 No	
Has your child been diagnosed with a weakened immune system?	O Yes	O. No.	
f yes, is your child taking medication for this?	O Yes	O No	
s your child taking medication for nephrotic syndrome (a kidney disordier), rheumatoid arthritis, Crohn's disease, or similar conditions?	O Yes	O No	
s your child currently taking steroids, or have they ever taken steroids for 2 weeks or more?	() Yes	0 No	
las your child had an organ transplant?	O Yes	O No	



















<section-header> **PACIPIENS Additional Factors that May Affect Adherence**Reactions to medication administration vary depending on: 4. Length of medication regimen 8. Relationships with caregiver or person administering the medication 4. Caregiver should administer the medication while the field worker/nurse observes Medication side effects Yomiting vs. spitting up – do not re-administer medication(s) Careations of others – be positive and make it fun

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Age	Strategy	
Infant 1 year	Educate parent about the importance of treatment Alleviate parents fears about medication side effects	
Toddler 1-3 years	Use distraction Give simple explanations Use incentives for each dose if necessary Do not procrastinate	
Preschooler 3-5 years	Give simple directions or explanations Allow child to have some choices - be consistent Offer verbal praise and rewards	
School Age 5-12 years	Discuss treatment plan with child Provide simple and accurate information	
Adolescent 12-18 years	Involve adolescent in decision-making Maintain confidentiality Provide rewards that are meaningful When indicated, provide peer support groups	

Patient-Centered TB Care

- Case manager, together with the patient and other healthcare providers, develops an individualized "case management plan" with interventions to address the identified needs
- Patients should be involved in a meaningful way in making decisions concerning treatment and overall care
 - Helps to establish mutual trust and partnership in the patient-provider relationship
 - Empowers patients to become involved in TB (advocacy, social support, etc.)
- Least restrictive public health interventions are used to achieve adherence, thereby balancing the rights of the patient and community









