

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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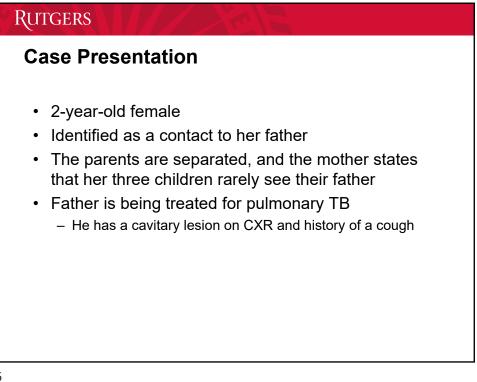
Window Prophylaxis Strategies

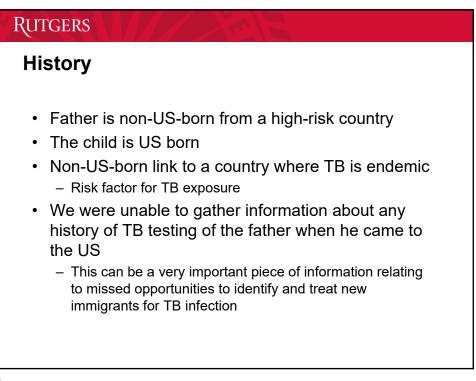
- Explain to parents about the use of medication will prevent the growth of TB germ if present.
- Explain why in young children they may not initially respond to the TB testing due to immaturity of their immune system.
- Medication is safe, easy to administer, and will protect their child from TB disease.
- 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.

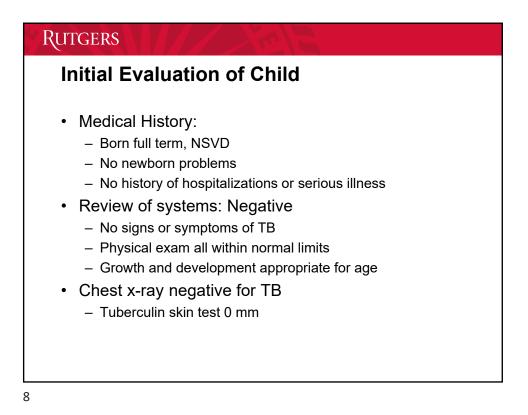
Medication Side-Effects

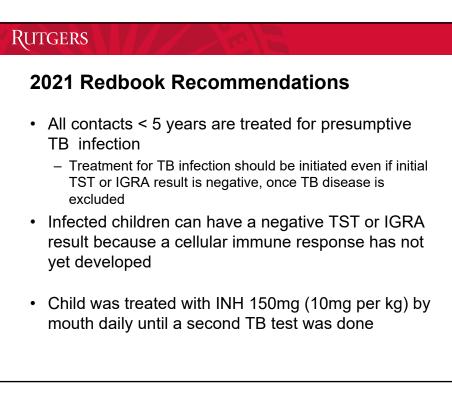
- In general, children tolerate TB medications well and adverse reactions are rare
- Patients and families should be educated about side effects of medications:
 - Orange or red-colored urine or tears, yellow skin or eyes, nausea, vomiting, abdominal pain, rash, dizziness, flu-like symptoms, easy bruising, 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

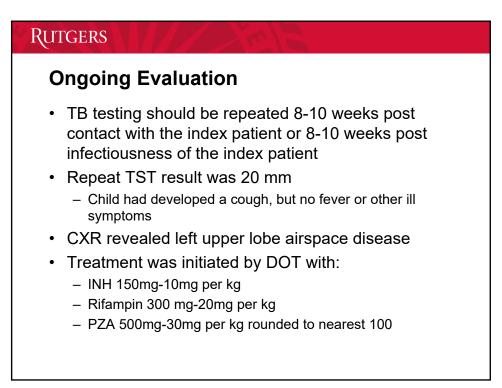






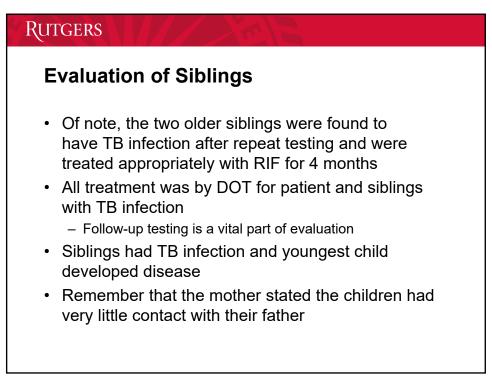






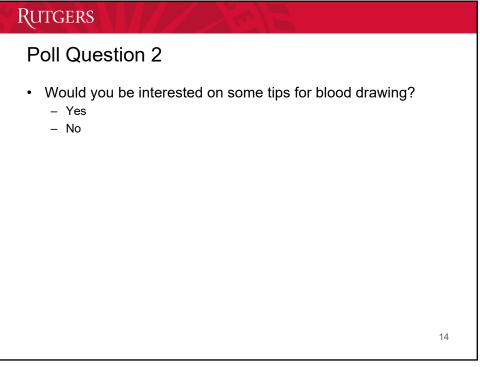
Following Sensitivity Patterns

- 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

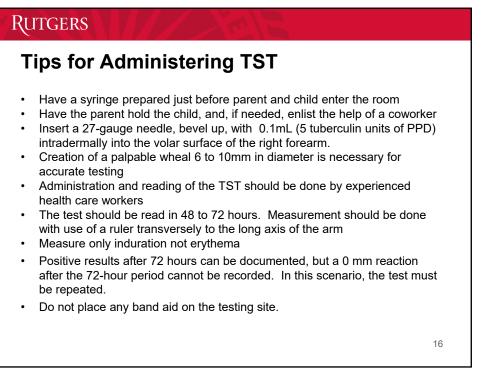
- The child with TB disease was treated for 6 months with excellent adherence
- The LUL airspace lesion was resolved. And there were no adverse effects from treatment
- The child was discharged from care

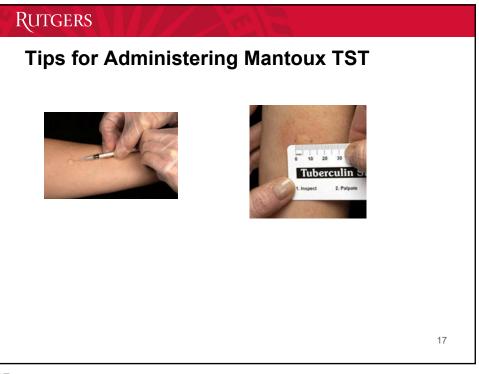


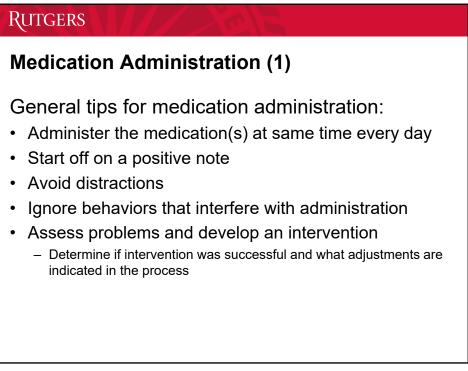
Blood Drawing Tips

- IT'S ALL IN HOW THE CHILD IS HELD! CRITICAL TO SUCCESS
- · Secure the elbow, so the arm does not twist. Keep the arm in proper alignment.
- This is usually a two-person task one to hold, the other to draw the blood
- A warm, wet compress may help to locate a vein. Examine both arms for a vein.
- Ensure that the child is well hydrated before drawing. It makes it easier to find the vein and draw the blood.
- Request the parent to hold the child on the lap with the child's legs between the parent.
- Look before you stick staff not proficient should not attempt this. After 3 attempts you should reschedule.
- Use a 23-gauge butterfly needle, bevel up, and approach the vein at a 45-degree angle.
- Do not hold the arm too tight, because this will prevent the blood from flowing freely.
- Remove the tourniquet as soon as the specimen is obtained.
- Use distractions such as music or soothing speech.







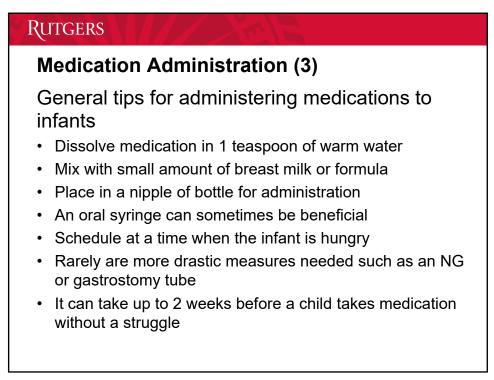


Medication Administration (2)

General tips for administering medications to children unable to swallow pills or capsules

- · Crush and mix with spoonful of food
- · Sprinkle contents of capsule on food
- · Use smallest amount of food possible
- Follow with plain food or liquid

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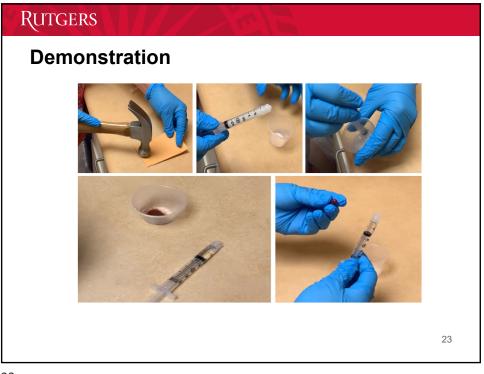
Tools of the Trade

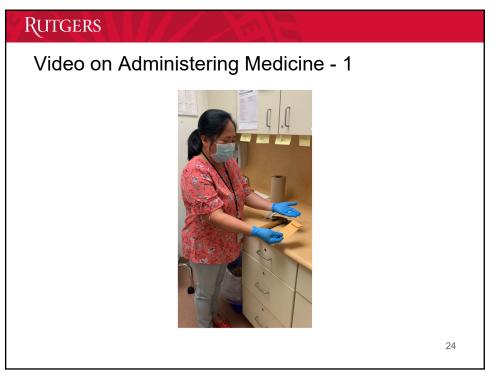




GTBI What Parents Need to Know about Tuberculosis Infection in Children http://globaltb.njms.rutgers.edu/downloads/products/tbpedsbrochure.pdf

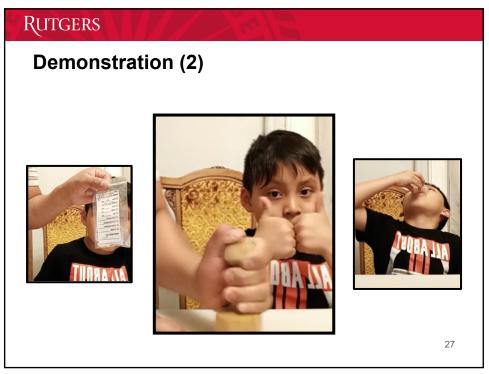
UTGERS				
		sessment Tool		
Pediatric Tuberculosis (TB) Risk Assessm	i infection (J781) prevents rearbidity and mortality. Young children with G781 are at	Pediatric Tuberculosis (TB) Risk Assessment	Rj.m. Gi	ERS Ini Tubercularia Rute
the greatest risk of progression. Consult a pediatric 18 expect for evaluation of appetite, weight loss or fatigue, faluee to theise, or an alexoreal chest X e	story to an inclusion contactors and automaticants and inclusion provery protection protect of children who have symptoms of 18 (e.g., cough, fewer, night sweets, loss ray).	Please select Yes or No for each of the following questions to assist your child's pediatrician:		UHealth
All children suith a positive text for 18 infection about the evaluated for High Rick kn 18 Interface * Contacts of persons with conferent or pressured infections planementy 18	High Bisk for Progression to 18 Disease* * Contacts <5 years of age or who are immunosoppressed should	Does your child have any symptoms of TB (cough, faver, night smeats, loss of apportse, weight loss, loss playful or enseptic, showing signs of being more tind than usual?) Yes	0 No
Eith or emigration from <u>countries</u> with a high prevalence of 18	treatment and consult periods is 'II aspect' - A test for 72 infection should be performed in any child before initiation of immunoconstitute theraps including:	Has your child spent time with anyone sick with TB?) Yes	0 Ne
 History of travel to <u>constraint</u> with high-rates of TB and substantial contact with the resident population[*] In the part 2 years, has any member of the child's investilate or extended household researchy visited or emispatied to 	Elidopic response modifiers, including TMF antagonists Prelonged systemic strend administration (a2 mg/stglutg, a1% mg/stgl) for a2 weeks Organ transplantation	In the last 12 months, has your child lived with or spent significant time with anyone with a long-lasting cough?	O Yes	0 No
the US from another country and stayed in the same household for a2 weeks? *Note Elick additional details from parents about nature of travel.	Other instancesponsise therapy Othere instances provide therapy Othere have an unread text for TB infection	Has your child had a chest X-ray in the past year?	O Yes	0 No
If child has no history of expenses, the text can be delayed \$-10 weeks after returning.	 If exposed and infected, children with the following medical canditions are at greater risk for progression to 12 disease. Diabetes medicine. Charing medicine. 	TB is more common in countries in Asia, the Middle East, Africa, Latin America, Eastern Europe and the	former Sovie	Union
 Contact with fumily exercises or visitors (s2 weeks) who have had a positive 78 test mult 	-Conperijal or acquired - Hodgkin disease innelanodelicencies - Lymphone	Were you or your child born in a country that is in an area listed above?	O Yes	0 No
Feedo I IGRA in child s-2 pre See Smiths	em 18 list. In or 131 in child <2 years I far 18 infection	In the past 2 years, have you or your child traveled to a country that is in an area listed above? If yes, did you or child spend most of the time with family and friends or other people in the community?	O Yes O Yes	0 No 0 No
Profess TSLOCA Negative Child Instang perform review of Argent	a TST/KRA Negative TST/KRA ptenerii: Symptometic	In the past 2 years, have you had violors from outside of the U.S. violt your home for at least 14 days? If yes, please write which country they violad form	• Yes	O No
Perform OR (PA and lateral) <5 years who are o ""If child has symptoms of TE disease. need window	d (swappt in children Evaluate forther. contacts, a, those who period twatement indexe period.locatment physical essem	Does your child have HTV infection?	O Yes	0 No
Porform CIR (PA & lateral)	Perform CRI (PA & Literal)	Does your child have diabetes?	O Yes	0 No
	TOP Negative CIR Abnormal CIR	Does your child have a serious kidney disease?	O Yes	0 No
See 18 consultation Exclude 18 disease	Exclude 18 disease	Has your child been diagnosed with a weakened immune system?	O Yes	0.Ne
	ane Excluded	If yes, is your child taking medication for this?	O Yes	O No
Cable Tuberculosis	ne Supported	Is your child taking medication for rephretic syndrome (a kidney disorder), rheumatoid arthritis, Crohn's disease, or similar conditions?	O Yes	O No
disease and striket in	let in and the	Is your child currently taking staroids, or have they ever taken stansids for 2 weeks or more?	O Yes	0 No
I each used, information regarding principal organization in 12 chouse in allulued from parameter of these i				



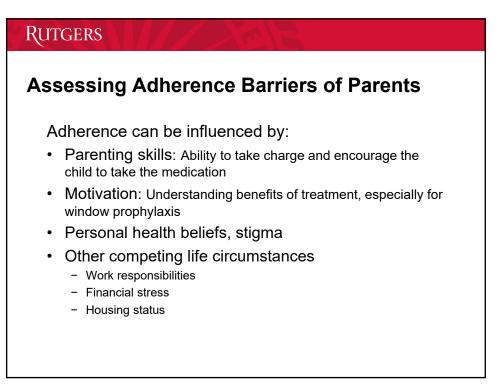


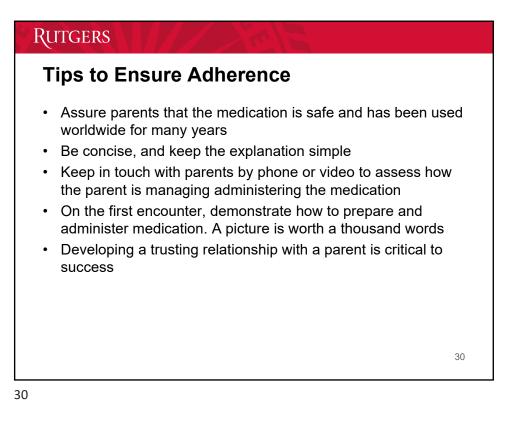




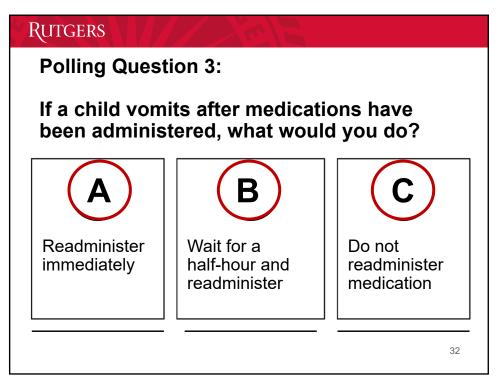












**PACIPIENS Additional Factors that May Affect Adherence**Reactions to medication administration vary depending on: 4. Length of medication regimen 8. Relationships with caregiver or person administering the medication 4. Caregiver should administer the medication while the field worker/nurse observes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

Rutgers			
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

