



Latent TB. Active Concern.
Tuberculosis Program
 VIRGINIA DEPARTMENT OF HEALTH

Latent Tuberculosis Infection Provider Talking Points with Pediatric Patients

Purpose: This document offers information for providers who are talking to patients or their caregivers about latent TB infection (LTBI).

- The first part is a guide for counseling your patients about tuberculosis (TB), LTBI, testing and treatment.
- The second part lists common patient questions and suggestions for how to respond.

Part 1:

What do you already know? What concerns do you have?

- Tell me what you know about TB.
- Then I can focus our time on talking about the parts you do not know or the areas where you may have some misconceptions

What is Tuberculosis (TB)?

- Tuberculosis, or "TB," is a serious disease caused by bacteria. It spreads from person to person through the air and usually affects the lungs but can also affect any other part of the body.
- When a person who is sick with TB coughs, they send TB germs into the air. If others breathe in the TB germs, some may get sick.

What is the difference between latent TB infection (LTBI) and active TB?

- TB germs can hide in the body for years. This is called "latent TB infection" or LTBI.
- People with latent (or "hidden") TB infection do not feel sick, and they cannot transmit TB to others.
- Unfortunately, some latent infections will eventually cause active disease. After being "latent" or "hidden" in your body for many years, latent TB infection can suddenly become active. Young children, under 15 years of age, are more likely to develop active TB disease soon after exposure to TB than older children and adults.
- Active tuberculosis disease has serious symptoms, and can include fevers, night sweats, extreme tiredness, unintended weight loss, and a prolonged cough with or without blood. Young children do not necessarily have these symptoms and may present with other symptoms such as change in mood or irritability.
- In some cases, people with active tuberculosis become severely ill and die. Young children less than five years of age are especially vulnerable to severe active TB disease.
- People with active TB disease are infectious, and can transmit the germs to family or friends. However, small children (less than 5 years of age) are less likely to transmit disease to others. Children 5 to 15 years of age can transmit disease depending on how sick they are.

Phone: 804-864-7906

eMAIL: tuberculosis@vdh.virginia.gov

WEB: www.vdh.virginia.gov/tuberculosis/



How does latent TB infection (LTBI) progress to active TB?

- Most active TB disease occurs in people who had latent infection for a long time, and never knew they were infected.
- Certain conditions such as young age, diabetes, kidney disease, immune compromise, cancer, and smoking increase chances of progressing to active disease once infected.

Who should be treated for LTBI? How do I know treatment is right for me?

- Most people with a risk factor for TB infection and a positive TB test should be treated.
- If your child's blood test (or skin test) comes back positive for TB infection, we will check him/her for symptoms and do a chest x-ray to make sure that s/he does not have active TB disease. If the xrays are normal, your child has LTBI, and probably should be treated.
- If your child is at high risk for LTBI and tests positive, we can protect him/her from getting active TB disease by treating his/her infection now. While treatment of latent TB infection is relatively straightforward, treatment of active TB disease is more challenging, involving more drugs taken for a longer time. Therefore, we strongly recommend getting treated now for LTBI.
- Finding and treating LTBI early protects your child from getting sick and protects others, especially the people who your child spends time with, from getting infected. By working together with patients and their communities, I hope we eliminate TB in our lifetime!

Part 2: Frequently Asked Questions, with suggested responses

TB Infection and Testing

"I thought TB doesn't exist in the U.S. anymore. How could my child get it?"

TB does exist in the U.S. Anyone can get TB, but some people are more at risk than others. People have a higher risk of TB if they:

- were born in or traveled to or lived longer than three months in Africa, Asia, Central or South America, or other countries with elevated rates of TB
- have a weakened immune system
- spent a lot of time with a person who has infectious TB

"I thought TB is hereditary so how can it be prevented?"

There are many myths about TB. Some people think it is hereditary, and others believe it can be caught from cups, utensils or touching someone with TB. In fact, TB can only be caught if you breathe in the germs when a person with active TB disease coughs, sings or speaks. The reason TB can cluster in families is because families live or spend a lot of time together and therefore breathe the same air; it is not hereditary.

"Why should my child be tested for LTBI?"

Getting tested will show if your child has LTBI, and there are treatments available. LTBI treatment protects your child from getting sick in the future. Similar to getting vaccines to prevent a disease later on, treating TB infection prevents your child from getting sick with active TB disease.



BCG Vaccine

"My child had the vaccine when s/he was a child so how can s/he get TB?"

The TB vaccine (called BCG) works very well to prevent severe forms of TB in young children. The TB vaccine does not protect you from TB for your whole life.

"I think my child's test result must be a false positive because s/he had a BCG vaccine"

There are sometimes false positive results in those with the TB skin test who were BCG-vaccinated, but not with the blood test. We can do a TB blood test to look for infection. If your child have a positive TB blood test then s/he is likely infected with TB, even if your child was vaccinated.

TB Treatment

"Why should my child take a medication if s/he am not sick?"

The medication kills the TB germs in the body before they have a chance to "wake up" and make your child sick. TB germs are easier to kill when they are not active and there are fewer of them. By getting rid of the germs now through LTBI treatment, you're protecting your child and your family from getting active TB, which can do a lot of damage to the body.

"I have heard treatment takes a long time!"

TB is a slow-growing bacteria, so treatment of TB infection takes longer than antibiotics you take for a typical pneumonia or minor infection. But it usually takes less time and less drugs to treat latent TB infection than active TB disease, which is why we recommend getting your child tested and treated for LTBI if s/he is at risk. LTBI treatment can often be completed in 12 doses, or 3 months. However, if a person doesn't take all their medicine, TB germs may multiply and be harder to kill. So it is important to treat the infection fully now to prevent active TB disease later on.

"My child feel fine now. So why should I take medication?"

It is important to stop the germs before the germs grow, spread, and cause active TB disease. People with active TB disease can get very sick and can spread TB to other people. Approximately 10% of people with active TB disease die. If your child gets treated, you can protect him/her and the other members of your family from getting sick.

"Everyone I know has (latent) TB/a positive test result so why does it have to be treated?"

It is important to stop the germs before they become active because then the germs grow and spread. People with active TB disease can get very sick and can spread TB to other people. If your child gets treated now, you can protect him/her and the other members of your family from getting sick.

"Can the LTBI medications harm my child? Is it better to wait to treat him/her when s/he is older?"

The side effects of the medication are usually less harmful to your child than the disease itself. The chances of having a serious side effect are less than the chance of getting sick with active TB disease. Plus, LTBI treatment is very well tolerated and safe for kids. In fact, kids have fewer problems taking LTBI medications than adults do, so it's actually easier to get them through treatment before they get older.



Other Concerns

"What will happen to my child if people find out s/he has LTBI?"

Your child's test results will be confidential. Children with LTBI do not have to miss school or daycare.

"Will my child die? Isn't TB incurable?"

TB is curable. We have good medications to help remove the bacteria from your child's body. It is much easier to treat TB infection when s/he has latent, vs. active disease, which is why we recommend getting tested and treated for LTBI if your child or you are at risk. However, if your child develops active disease, your child's doctors and the health department will find you medicines and support you through treatment.

"If my child has TB, does that also mean s/he has HIV?"

Absolutely not. In some parts of the world, people with one disease often have the other, but having TB does not mean your child has HIV. As part of your child's evaluation for TB, we can do a simple blood test to ensure your child is HIV negative.