

The Connection between TB and HIV

**Satellite Conference and Live Webcast
Wednesday, December 16, 2009
2:00 - 3:00 p.m. Central Time**

Produced by the Alabama Department of Public Health
Video Communications and Distance Learning Division

Faculty

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What is TB?

- **An airborne disease**
- **Usually affects the lungs**
- **Can affect other parts of the body**
 - **Brain, kidneys or the spine**
- **Can progress from a dormant stage to an active stage**

How is TB Spread?

- **When an infected person with TB disease**
 - **Coughs**
 - **Sneezes**
 - **Laughs**
 - **Sings**
 - **Talks**

What Are the Symptoms of TB Disease?

- **Cough (for more than 3 weeks)**
- **Feel weak/fatigue**
- **Unexplained fever**
- **Unexplained weight loss**
- **May cough up blood**
- **Sweat a lot at night**

TB Infection/TB Disease

- **Infection (Latent)**
 - **Positive TB skin test (TST)**
 - **Normal chest x-ray**
 - **No symptoms**
 - **Cannot transmit to others**

TB Infection/TB Disease

- TB Disease
 - Positive TB skin test (TST)
 - Abnormal chest x-ray
 - Has symptoms
 - May transmit to others

Why is it Important to Know HIV Status?

- HIV infection weakens the immune system
- A weakened immune system increases the possibilities of TB disease

Why is it Important to Know HIV Status?

- Someone with TB infection and HIV infection has a very high risk of developing TB Disease
- Without treatment, these two infections can work together to shorten the life of the person infected with both

TB Cases

- Total cases in 2008
 - 176/4.0% HIV infected
- Total cases in 2007
 - 177/5.1% HIV infected

Good News!

- TB infection can be prevented from developing into TB disease
- TB disease can be cured
- A single drug, Isoniazid (INH), is used for preventive therapy
- Preventive therapy is generally 6-9 months

Good News!

- HAART
 - Highly Active Antiretroviral Therapy for HIV infection
- In the HAART era
 - The risk of TB Disease, for a HIV infected person is above baseline population risk and much better than the pre-HAART area risk

Questions/Comments?