



MANTOUX TUBERCULIN SKIN TEST • TST



Tuberculosis (TB) is caused by a bacterium called **Mycobacterium tuberculosis**. The bacteria usually attack the lungs, but **TB** bacteria can attack any part of the body such as the kidney, spine, and brain.



A method of determining whether a person is infected with Mycobacterium tuberculosis is by reliable administration and reading of the TST, this requires standardization of procedures, training, supervision, and practice.

The TST is performed by injecting 0.1 ml of tuberculin purified protein derivative (PPD) into the inner surface of the forearm. The injection should be made with a tuberculin syringe, with the needle bevel facing upward. The TST is an intradermal injection. When placed correctly, the injection should produce a pale elevation of the skin (a wheal) 6 to 10 mm in diameter. The skin test reaction should be read between 48 and 72 hours after administration by a health care worker trained to read TST results. The reaction should be measured in millimeters of the induration (firm swelling).



TB was the second leading infectious disease killer worldwide, after COVID-19. It was also the leading killer of people with HIV and a major cause of deaths related to antimicrobial resistance. In 2022, 2.5 million people fell ill with TB in the African region, accounting for a quarter of new TB cases worldwide. An estimated 424,000 people died from the disease in the African region (1.267 million globally) in 2022. Over 33% of TB deaths occur in the African Region.

Skin test interpretation

- Measurement in millimeters of the induration
- Classification of the Tuberculin Skin Test ReactionAn **induration of 5 or more millimeters** is considered positive in People living with HIV
- A recent contact of a person with infectious TB disease
- People with chest x-ray findings suggestive of previous TB disease
- People with organ transplants
- Other immunosuppressed people(e.g. patients on prolonged therapy with corticosteroids equivalent to/greater than 15 mg per day of prednisone or those taking TNF-a antagonists)
- An **induration of 10 or more millimeters** is considered positive in people born in countries where TB disease is common.
- People who abuse drugs.
- Mycobacteriology laboratory workers.
- People who live or work in high-risk congregate settings.
- People with medical conditions that place them at high risk for TB.
- People with a low body weight (<90% of ideal body weight).
- Children younger than 5 years of age.
- Infants, children, and adolescents exposed to adults in high-risk categories
- An induration of 15 or more millimeters is considered positive in People with no known risk factors for TB.



Product offering to Dermatologists

- Tuberculin PPD Mantoux 2TU 1ml
- Tuberculin PPD Mantoux 5TU 1ml

Tuberculin is an antigenic extract of *M. tuberculosis* capable of eliciting an immunological skin reaction.

Contact **Sep Sci** for more information.

Separation Scientific

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