

QFT™ improves efficiency of TB contact investigations — allowing you to focus your efforts

Imagine being able to focus only on individuals truly infected with TB...

Study Overview

In a high school TB contact investigation involving 349 contacts: (1)

- Out of 95 contacts who were TST (Tuberculin Skin Test) positive, only 4 were QFT™ positive.
- The 91 contacts who were TST positive—but QFT™ negative—were not given Isoniazid (INH) therapy, while the 4 contacts that were QFT positive were given INH therapy.
- After 3½ years of follow-up none of the 91 QFT™ negative—but TST positive—contacts had developed active TB.

...now it's possible with QFT™

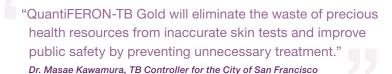
Efficiency gains with QFT™

QFT [™] Advantages	Limitations of TST (Tuberculin Skin Test) Programs
Need for one visit saves time and can improve adherence.	Problems with testing logistics commonly affect adherence to TST programs. • Requires two visits.
Unprecedented accuracy in detecting TB infection. • Unaffected by BCG vaccination. ⁽⁴⁾ • Unaffected by most environmental non-tuberculous mycobacterium (NTM). ⁽⁵⁾	TST accuracy adversely affected by previous BCG vaccination and non-tuberculous mycobacterial infections (NTM). BCG can cause false positive TST responses in up to 20-40% of cases. ⁽²⁾ Up to 50% of TST responses can be due to NTM infections. ⁽³⁾
Increased test accuracy provides confidence in initiating therapy and encourages therapy compliance.	Low compliance rates amongst TB contacts indicated for INH therapy. • Studies have shown that ~43% indicated TB contacts completed INH therapy. ⁽⁶⁾

Numerous studies have shown that QFT[™] has better correlation with the degree of exposure of contacts to their source case than the TST.^(7,8,9,10,11)

In a large contact investigation involving >20,000 contacts exposed to a smear-positive supermarket employee:

"...TST results were associated with age while positive Interferon-γ responses were significantly associated with cumulative shopping time, most markedly for QFT-GIT. [the authors concluded]...Blood test results were associated with exposure, while the TST was not." (11)







Ordering Information

Catalog Number	Product Description
0590 0301	QuantiFERON®-TB Gold In-Tube (Nil, TB Antigen, Mitogen tubes) 100 each
0594 0201	QuantiFERON®-TB Gold ELISA only

References

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- 7. Brock I, Munk ME, Kok-Jensen A, Andersen P. Performance of whole blood IFN-gamma test for tuberculosis diagnosis based on PPD or the specific antigens ESAT-6 and CFP-10. Int J Tuberc Lung Dis 2001; 5: 462-67.
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- 10. Diel R, Ernst M, Döscher G, et al. Avoiding the effect of BCG vaccination in detecting Mycobacterium tuberculosis infection with a blood test. Eur Respir J 2006; 28: 6–23.
- 11. Arend SM, Thijsen SF, Leyten EM, Bouwman JJ, Franken WP, Koster BF, Cobelens FG, van Houte AJ, Bossink AW. Comparison of two interferon-gamma assays and tuberculin skin test for tracing tuberculosis contacts. Am J Respir Crit Care Med. 2007; 175(6):618-27.

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