

QFT™ streamlines the delivery of healthcare worker (HCW) TB control programs, eliminates doubt and costly follow-up examinations

QFT[™] improves quality of HCW screening programs

QFT™ Advantages	Limitations of TST (Tuberculin Skin Test) Programs
Unprecedented accuracy in detecting TB infection. • Unaffected by BCG vaccination. ⁽¹⁾ • Unaffected by most environmental non-tuberculous mycobacterium. ⁽²⁾	TST accuracy adversely affected by previous BCG vaccination and non-tuberculous mycobacterial (NTM) infections. • A large number of hospital personnel are born in high TB prevalent countries where BCG vaccination is common.
Objective reproducible results.	Reading requires substantial training, however still is subjective.
Increased test accuracy provides confidence in initiating therapy and encourages therapy compliance.	Variable Isoniazid (INH) initiation rates amongst HCW indicated for INH therapy. • Initiation rates vary between 23-58%.(3,4) Variable compliance rates amongst HCW indicated for INH therapy. • Compliance amongst HCW varies between 8-60%.(5,6,7,8)

QFT™ improves productivity of HCW screening programs

QFT™ Advantages	Limitations of TST Programs
QFT [™] is not subject to boosting, which eliminates the need for 2-step testing. ⁽⁹⁾	Serial screening programs require 2-step testing (up to 4 contact visits). • Wastes time and resources.
Needs only one visit—which saves time and can improve test adherence.	Problems with testing logistics commonly affect adherence to TST programs. ⁽¹⁰⁾ • Follow-up visits for reading the TST are inefficient and pose a substantial operational challenge. • May require repeat testing of non-compliant individuals.

QFT™ represents a cost-effective alternative to the TST for hospital TB control programs

Contrary to popular belief TST programs ARE NOT cheap to maintain

- TST reagents represent less than 1.5% of the total cost of TST screening programs. (11)
- Personnel costs are the major cost component of a TST program. (11)
- False positive skin tests can lead to unnecessary investigations and treatment.





Studies show that QFT[™] can reduce the cost of maintaining HCW screening programs by up to 32[%]. (12)

Cost savings can be achieved by:

- Savings in personnel costs, follow-up and unnecessary TB therapy costs.
- QFT[™] reduces costs associated with false positive skin tests, such as additional investigations (e.g. chest X-ray).
 "67[%] of performed X-rays in HCW with a positive TST were unwarranted because the QFT was negative" (Nienhaus et al 2007) (*2)

Experience from the University of Illinois Medical Center (Chicago) health service with QFT™(13)

Conducted 4643 QFT™ tests in 2006

- 4313 Negative (92.9%)
- 140 Positive (3.0%)
- 190 Indeterminate (4.1%)

Program analysis showed

- Cost savings, especially when the outreach lab did several thousand tests.
- 2,000 less visits in 2006 since the transition to QFT™.
- This did not account for lost time/dollars saved by reduced time away from work, faster hiring process (less visits for 2-step testing), and less x-rays required.

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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- 11. Lambert L, Rajbhandary S, Qualls N, et.al. Costs of Implementing and Maintaining a Tuberculin Skin Test Program in Hospitals and Health Departments. Infect Control Hosp Epidemiol. 2003; 24: 814-820.
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- 13. Marder D.C. Presented at First Global Symposium on Interferon-gamma assays. Vancouver, Canada, Feb 21-22, 2007.

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