



SAN LUIS OBISPO COUNTY Public Health Laboratory

Phone: (805) 781-5507 Fax: (805) 781-1023 www.sloPublicHealth.org/lab

LITERATURE SUMMARY

Quantiferon Values and TST boosting

Summary lists the percent of patients who exhibit a boosted Quantiferon value after a tuberculin skin test is placed.

Patient category	Days post TST					Ref
	3	7	28	42	84-90	
TSTor IGRA negative patients						
TST-negative	0/15 (0%)					2
IGRA-negative		2/16(12.5%)				1
QFT/TST-negative			5/33(15%)			5
QFT-negative				3/9 (33%)		4
TST-negative					10/35(29%)	3
TSTor IGRA Positive patients						
Cured TB 4/5QFT pos	4/5 (80%)					2
TST pos 17/46 QFT+	18/46 (39%)					2
IGRA-pos		5/8 (62.5%)				1
QFTpos/TST neg					8/12(67%)	3

References

1. Van Zyl-Smit RN et al. Within-subject variability and boosting of T-cell interferon- γ responses after tuberculin skin testing. *Amer J Resp Crit Care Med* 180:49-58, 2009.
2. Leyten, EMS et al. Effect of tuberculin skin testing on a Mycobacterium tuberculosis-specific interferon- γ assay. *Eur Respir J* 29:1212-1216, 2007
3. Nguyen, M et al. Quantiferon-TB predicts tuberculin skin test boosting in US foreign born. *Int J Tuberc Lung Dis* 9:985-991, 2005.
4. Naseer, A et al Evidence of boosting Mycobacterium tuberculosis-specific IFN- γ responses at 6 weeks following tuberculin skin testing. *Eur Resp J* 29:1282-1283, 2007
5. Igari, H et al. Booster phenomenon of Quantiferon-TB Gold after prior intradermal PPD injection. *Int J Tuberc Lung Dis* 11:788-791, 2007