LITERATURE SUMMARY

Quantiferon Values and Treatment

Summary – Seven studies reported an aggregate of 674 active patients of which 566 (83.9%) had positive QFT before treatment, and 347 (51.5%)after treatment for a reversion rate of 38.7%.

Patient number (n)	Baseline Before Rx n QFT+ (%)	Post Rx n QFT+ (%)	Rx in months	Reversion Rate	Ref
60	53 (88.3%)	38 (61.6%)	6	28.3%	1
275	212 (80.4%)	110 (51.8%)	6	48.5%	2
36	25 (69.4%)	21 (48.8%)	Not reported	16.0%	3
149	133 (89.0%)	108 (81.0%)	6-9	18.7%	4
76	72 (94.7%)	36 (47.9%)	6	50%	5
38	38 (100%)	11 (29.0%)	6	71%	6
40	33 (83%)	23 (58%)	6	25%	7
Total= 674	566 (83.9%)	347 (51.5%)		Avg 38.7	

References:
1. Bocchino,M., Chairadonna,P., Matarese,A., Bruzzese,D., Salvatores,M., Tronci,M., Moscariello,E., Galati,D., Alma,M.G., Sanduzzi,A. and Altieri,A.M., 2010. Limited usefulness of QuantiFERON-TB Gold In-Tube((R)) for monitoring anti-tuberculosis therapy. Respir Med. (2010) 10.1016.
2. Chee,C., KhinMar, K., Gan, S., Barkham, T., Koh, C., Shen,L and Wang, Y. Tuberculosis treatment effect on T-cell interferon-γ responses to Mycobacterium tuberculosis-specific antigens. Eur Respir J 36:355-361, 2010.
3. Domínguez J, De Souza-Galvao M, Ruiz-Manzano J, Latorre I, Prat C, et al. 2009. T-cell responses to the Mycobacterium tuberculosis-specific antigens in active tuberculosis patients at the beginning, during, and after antituberculosis treatment. Diagn Microbiol Infect Dis 63: 43–51. 2009.
4. Denkinger,C., Pai,M., Patel,M., Menzies,D. Gamma interforn release assay monitoring of treatment response for active tuberculosis: an explosion in the spaghetti factory. J Clin Micobiol. 51:607-610, 2013.

5. Katiyar,S., Sampath,A, Bihari,S., Mamtani,M., and Kulkarni, H. Use of the Quantiferon-TB Gold in-tube test to monitor treatment efficacy in active pulmonary tuberculosis. Int J Tuberc Lung Dis, 12:1146-1152,2008.
6. Sauzullo, I, Mengoni, F., Lichtner, M., Massetti, A., Rossi,R., Iannetta, M., Marocco,R, DelBorgo, C, Soscia F,Vullo V, Mastroianni CM. In vivo and in vitro effects of antituberculosis treatment on mycobacterial interferon-gamma T cell response. PloS One 2009;4. e5187.
7. Kobashi,Y., Mouri,K., Yagi,S., Obase, Y., Miyashita, N., and Oka, M. Transitional changes in T-cell responses to Mycobacteriul tuberculosis specific antigens during treatment. J Infect 58:197-2004, 2009.

Last Updated: 7/19/10