Direct costs of TST				
Personnel for TST				
Average hourly wage for RN	\$44/hour	Refugee Health 2008-2009 Budget summary		
Estimated time (per patient) taken to place (10				
minutes) and then read test (5 minutes),		Phone conversation with nurse manager		
including time to document	15 minutes	at Community Health Services clinic		
Personnel cost per TST	\$11.00	Calculated		
Supplies for TST				
Cost of test antigen per patient	\$1.65/test	Phone conversation with pharmacist manager at Childrens Hospital Los Angeles		
Cost of injection material (syringe, gauze,		Estimated costs based upon Dr. Bob		
alcohol wipe) per patient	\$0.3/test	Bolan presentation		
Supplies cost per TST	\$1.95	Calculated		
Total cost of TST per patient	\$12.95	Calculated		
Number who require TB testing each year in LA County	5000	Based upon projection from The Public's Health Newletter, Volume 9, Number 6, July 2009		
Estimated per cent who fail to return and need re-testing	50%	Phone conversation with Dr. Frank Alvarez		
Number who need retesting per year	2500*	Calculated		
Total TSTs needed per year	7,500	Calculated		
Total direct cost of TSTs	\$89,625	Calculated		

Indirect costs of TST			
% of false positives from TST (as compared		Data from Dr. Masae Kawamura from the	
to Quantiferon In-tube)	62%	SF Immigrant population (37% vs. 14%)	
		Data from Dr. Masae Kawamura from the	
% of unneeded CXRs	23%	SF Immigrant population (37% vs. 14%)	
		Data from Dr. Masae Kawamura from the	
% Positive tests requiring CXR	37%	SF Immigrant population	
Unneeded CXR ordered	1150	Calculated	
% of CXR obtained	85%	Data from Dr. Masae Kawamura	
Total number of unneeded CXR obtained	978	Calculated	
Cost of CXR	\$24	Data from Dr. Masae Kawamura	
Total cost of unneeded CXRs	\$23,619	Calculated	
% of patients with latent TB treatment initiation	26%	Data from Dr. Masae Kawamura	
Total number of patients with unneeded latent			
TB treatment initiation	254	Calculated	
Cost of latent TB treatment initiation			
appointment	\$185	Data from Dr. Masae Kawamura	
Total cost of unneeded latent TB			
treatment initiation appointments	\$46,990	Calculated	
% of patients with latent TB who complete			
therapy	70%	Data from Dr. Masae Kawamura	
Total number of patients with unneeded latent			
TB therapy for 9 months	178	Calculated	
Cost of latent TB treatment therapy	\$26	Data from Dr. Masae Kawamura	
Total cost of unneeded latent TB			
treatment	\$4,628	Calculated	
Total indirect costs of TST	\$75,237	Calculated	

Direct costs of IGRA testing			
Lab personnel time per IGRA assay	\$1.27	Data from Dr. Masae Kawamura	
IGRA cost per assay	\$20	Data from Dr. Masae Kawamura	
Total cost of IGRA per patient	\$21.27	Calculated	
		Based upon projection from The Public's	
Number who require TB testing each year in		Health Newletter, Volume 9, Number 6,	
LA County	5000	July 2009	
Estimated per cent who have an			
indeterminate value	2%	Data from Dr. Masae Kawamura	
Number who need retesting per year	100	Calculated	
Total IGRA needed per year	5,100	Calculated	
Total direct cost of IGRA	\$108,477	Calculated	
Fixed costs			
ELISA machine/maintainance	?	Based on local capacity	
Decapper machine	~\$5000	Data from Dr. Masae Kawamura	

Compare and contrast

- Costs: ~\$165,000 vs. \$109,000
- Other advantages: Patient costs (single initial visit, lost productivity/school, transportation, administering a medication for 9 months, and side effects)
- Improved reliability in testing benefits both the MD and the patient