

**Additional file 1: Characteristics of studies presenting data on the proportion of HIV-infected patients who tested TST-positive using a  $\geq 5$  mm and  $\geq 10$  mm cut-off size**

Study	Country	Study years	Five year average TB prevalence rate (per 100,000)	Study setting	Eligible patients (N)	Mean age (years)	Study population	Special populations	Methods used to exclude active TB among study patients	TST methods	Patients on ART at enrolment (%)	Patients with at least one BCG scar (%)	TST results stratified by CD4+ count available?	Secondary data provided for study inclusion?
<b>Africa</b>														
Allen et al (1992)[9]	Rwanda (Kigali)	1986-1987	14	Urban	284	..	Outpatient paediatric and prenatal clinics at community hospital	Only women were included	Symptom screen, clinical investigation, chest X-ray, sputum smear and culture	1-TU PPD RT23 read after 48-72 hours	pre-ART era	78	No	No
Aisu et al (1995)[10]	Uganda (Kampala and Nakulabye)	1991-1992	104	Urban	1094	..	HIV testing center	Only patients age 15-45 were included	Symptom screen, chest X-ray and sputum smear	2-TU PPD RT23 in Tween 80 read after 48-72 hours	pre-ART era	61 (among TST-positive only)	No	No
Duncan et al (1995)[11]	Zambia (Lusaka)	1990	23	Urban	106	..	STD clinic within a university hospital	...	...	0.1 mL 2-TU PPD RT23 read after 48 hours	pre-ART era	...	No	No
Fordham von Reyn et al (1996)[12]	Kenya (Nairobi)	1991-1994	66	Urban	104	34	Outpatient clinic and inpatient services of hospital	Only patients with CD4+ count <200 were included	...	0.1 mL 5-TU Tubersol PPD (Connaught Laboratories) read after 48-72 hours	0	39	No	No

Diagbouga et al (1998)[13]	Burkino Faso (Bobo-Dioulassa)	1994-1995	19	Urban	37	34.5	STD/AIDS clinic	...	Clinical investigation	10-TU tuberculin (Pasteur Mérieux Serums et Vaccins) read after 72 hours	pre-ART era	...	No	No
Waddell et al (1999)[14]	Zambia (Lusaka)	...	66	Urban	58	34.6	Individuals attending one of three settings offering HIV services	Only patients with CD4+ count $\geq 200$ were included	Two sputum smears	0.1 mL 5-TU Tubersol PPD (Connaught Laboratories) read after 48–72 hours	...	38	No	No
Mtei et al (2005)[15]	Tanzania (Dar es Salaam)	2001-2003	239.0	Urban	460	34*	Recently diagnosed patients referred from HIV testing centers	Only patients with CD4+ count $> 200$ were included	Symptom screen, clinical examination, chest X-ray, sputum smear and culture	PPD RT23	0	100	No	No
Tegbaru et al (2006)[16]	Ethiopia (Addis Ababa)	1995-1997	375.0	Urban	116	33	Factory workers who were living in and around Addis Ababa	Only factory workers were included	Clinical examination, chest X-ray, sputum smear and culture	0.1mL 2-TU PPD RT23	0	...	No	No
Rangaka et al (2007)[17]	South Africa (Khayelitsha)	...	654.5	Urban	67	30	Individuals attending an integrated HIV-TB clinic for	...	Symptom screen and clinical examination or Karnofsky score	2-TU PPD RT23	0	51	Yes	No

							HIV testing		<60					
Karam et al (2008)[18]	Senegal (Dakar)	2003-2005	462.0	Urban	273	37*	Individuals attending an infectious disease department or ambulatory care centre of a hospital	...	Clinical, radiological or microbiological evidence or Karnofsky score <80	2-TU PPD RT23 read after 48–72 hours	0	73	Yes	Yes
Hanifa et al (2009)[19]	South Africa	2005-2006	654.5	...	33	...	Employees from gold mines	Only miners were included	...	2-TU PPD RT23 in Tween 80 read after 48-72 hours	...	...	No	No
Leidl et al (2010)[20]	Uganda (Kampala)	...	313.8	Urban	89	34.1	HIV outpatient clinic	...	Symptom screen, clinical examination, chest X-ray, sputum examinations, or Karnofsky score <60	0.1 mL 2-TU PPD RT23 read after 48 hours	0	...	No	No
Oni et al (2011)[21]	South Africa (Khayelitsha)	2008-2010	785.0	Urban	238	30*	Individuals attending an integrated HIV-TB clinic pre ART initiation	...	Symptom screen, chest X-ray (if TST+) and sputum smear and culture	2-TU PPD RT23 read after 48–72 hours	0	54	Yes	Yes

Samandari et al (2011)[22]	Botswana (Gaborone and Francistown)	2004-2009	750.0	Urban	1919	34	Government clinics providing ART and IPT services	...	Symptom screen and chest X-ray	5-TU PPD RT23 read after 48–72 hours	2	78	Yes	Yes
<b>The Americas</b>														
Espinal et al (1996)[23]	Dominican Republic (Santo Domingo)	1992-1994	23	Urban	86	29.2	HIV testing center	Only women were included	Clinical investigation, chest X-ray and three sputum smears	5-TU Applisol PPD (Parke-Davis)	pre-ART era	...	No	No
Fordham von Reyn et al (1996)[12]	Trinidad (Port of Spain)	1992-1994	0.19	Urban	121	35	Outpatient clinic and inpatient services of hospital	Only patients with CD4+ count <200 were included and 24% were MSM	...	0.1 mL 5-TU Tubersol PPD (Connaught Laboratories) read after 48–72 hours	1	44	No	No
Garcia-Garcia et al (2000)[24]	Mexico (Mexico City)	1992-1993	123	Urban	801	31	HIV testing centre	72.9% of patients were MSM and 1.1% were IDU	Clinical screen, chest X-ray, sputum smear and culture	5-TU PPD RT23 read after 48–72 hours	12	82	No	No
Miranda et al (2007)[25]	Brazil (7 states)	1995-2001	104	...	98	34*	Individuals attending a public HIV treatment facility	59% of patients were MSM, 13% had a history IDU and 7% had a history of incarceration	Chest X-ray, sputum microscopy and sputum culture	...	84	...	No	Yes
Balcells et al	Chile	2006-	16.5	Urban	109	38.8*	HIV outpatient	Only patients with CD4+	Symptom	2-TU PPD RT23 read	58	84	Yes	Yes

(2008)[26]	(Santiago)	2007					clinics	count >100 were included	screen	after 48–72 hours				
Gutierrez et al (2009)[27]	Brazil (Sao Paulo)	2005	75.5	Urban	104	41.6	HIV/AIDS outpatient clinic	56% of men were MSM and 5% of all patients were IDU	Methods unclear	...	92	...	No	No
Baboolal et al (2010)[28]	Trinidad and Tobarango	2007	0.26	...	64	...	Outpatient respiratory care clinics and a tertiary TB health center	...	Methods unclear	0.1 mL Tubersol PPD (Connaught Laboratories) read after 72 hours	100	...	No	No
Moura et al (2011)[29]	Brazil (Recife)	2007-2010	59.0	Urban	864	40.4	Individuals in outpatient hospital services that serve as HIV/AIDS referral services	...	...	0.1mL PPD RT23 read after 72 hours	78	...	Yes	Yes
<b>Asia</b>														
Suwanagool et al (1995)[30]	Thailand (Bangkok)	1993-1994	208	Urban	399	24.2	Individuals attending an infectious disease and counseling clinic	Only asymptomatic patients with a CD4+ count >200 were included	Chest X-ray	10-TU PPD-TRC (Thai Red Cross) read after 48-72 hours	pre-ART era	61	No	No
Yanai et al	Thailand	1992-	208	Urban	217	28.7	Individuals	Only those	...	5-TU	...	72	No	No

(1997)[31]	Chiang Rai)	1994					attending a blood bank	attending a blood bank were included		Tubersol PPD (Connaught Laboratories) read after 48–72 hours, but up to 5 days				
Yanai et al (1997) [31]	Thailand Chiang Rai)	1992-1994	208	Urban	129	22.3	Female sex workers attending STD clinic	Only female sex workers were included	...	5-TU Tubersol PPD (Connaught Laboratories) read after 48–72 hours, but up to 5 days	...	62	No	No
Sawhney et al (2006)[32]	India (Pune)	1997-2002	241	Urban	396	33.8	Individuals attending an armed services hospital	Only serving armed forces members were included and were 99.6% male	...	...	...	...	No	No
Gupta et al (2007)[33]	India (Pune)	2002-2005	248	Urban	752	23*	Pregnant women attending a public hospital	Only pregnant women were included	Symptom screen, chest x-ray, sputum smear and culture	5-TU PPD and read after 48–72 hours	...	...	Yes	Yes
Swaminathan et al (2008)[34]	India (Chennai)	2000-2005	248	Urban	631	30	Individuals attending government-funded TB clinics	...	Symptom screen, chest X-ray and 3 sputum cultures	1-TU PPD RT23 and read after 48–72 hours	...	48	Yes	No
Davarpanah et al (2009)[35]	Iran (Shiraz)	2008	36	Urban	173	38*	Individuals attending an infectious disease	...	...	5-TU PPD and read after 48–72 hours	...	...	No	No

							clinic							
Davarpanah et al (2009)[36]	Iran (Shiraz)	2004-2006	47	Urban	459	...	Counselling and behavioural modification center	Many patients were MSM or had a history of IDU	...	...	...	...	No	No
Jiang et al (2009)[37]	China (Yunnan Province)	2002-2005	146.7	...	46	33.9 and 33.7	Individuals from within a province of high drug abuse	...	Chest X-ray, sputum microscopy and sputum culture	5-TU PPD RT23 read after 48-72 hours	...	...	No	No
Zhang et al (2010)[38]	China (Shenzhen)	...	144.8	Urban	93	36	Individuals attending an ART clinic	...	Symptom screen, clinical examination and chest X-ray	5-TU PPD (Chengdu Institute of Biological Products) read after 72 hours	0	100	No	No
Kabeer et al (2011)[39]	India (Chennai)	2007-2009	252.5	Urban	180	36*	Government hospital of thoracic medicine	...	Clinical, radiological, and microbiological investigations	2-TU PPD RT23 read after 48-72 hours	0	...	No	No
Nguyen et al (2011)[40]	Viet Nam (Ho Chi Minh City)	2009-2010	334.4	Urban	369	30*	Individuals attending a public clinic that offers HIV services	62.9% of patients were IDU, 15.5% had a history of incarceration, 44.2% have a history of TB	Symptom screen, chest X-ray, sputum smear and culture	5-TU PPD read after 48-72 hours	58.3	55.6	Yes	Yes

\*Denotes median age.

“...” denotes information not stated.

*TU* tuberculin units, *PPD* purified protein derivative, *STD* sexually transmitted disease; *MSM* men who have sex with men;

*IDU* people who inject drugs, *ART* antiretroviral therapy, *IPT* isoniazid preventive therapy.