

**THE AMERICAS**

**EASTERN MEDITERRANEAN**

**EUROPE**

**SOUTH-EAST ASIA**

**WESTERN PACIFIC**



# The Americas

## NTP MANAGER (OR EQUIVALENT); PERSON FILLING OUT DATA COLLECTION FORM (IF DIFFERENT)

Anguilla	Lynette Rogers
Antigua & Barbuda	Oritta Zachariah; Janet Samuel
Argentina	Elsa Zerbini
Bahamas	
Barbados	R.A. Manohar Singh
Belize	Ines Mendez-Moguel; Marvin Manzanero
Bermuda	John Cann; Lise M. Outerbridge; Dy-Juan M. DeRoza
Bolivia	Miram Nogales Rodriguez
Brazil	Josenev Raimundo Pires dos Santos; Draurio Barreira; Stefano Barbosa Codenotti
British Virgin Islands	
Canada	Edward Ellis; Victor Galant
Cayman Islands	A. K. Kumar; Timothy E. D. McLaughlin-Munroe
Chile	Manuel Zuñiga Gajardo; Zulema Torres Gaete
Colombia	Gilberto Alvarez Uribe; Ernesto Moreno Naranjo; César Castiblanco Montañez
Costa Rica	Zeidy Mata A.
Cuba	María Josefa Llanes Cordero
Dominica	Paul Ricketts
Dominican Republic	Juan José Cordero; Belkys Marcelino
Ecuador	Jorge Iñiguez Luzuriaga; Rocío Morales; Christian Acosta
El Salvador	Julio Garay Ramos; Marta De Abrego; Xochil Aleman
Grenada	Agnes Banfield
Guatemala	Edwin Antonio Quiñonez Villatoro
Guyana	Jeetendra Mohanlall
Haiti	Richard D'Meza
Honduras	Jacobo I. Argüello; Anna Reyes
Jamaica	Eva-Lewis-Fuller; Sydney Erwin
Mexico	Martín Castellanos Joya; Martha A. García Avilés; Héctor A. Téllez Medina
Montserrat	Violet Brown; Dorothea L Hazel
Netherlands Antilles	I. Gerstenbluth; Y. Halabi
Nicaragua	Alejandro A. Tardencilla Gutiérrez
Panama	Cecilia Lyons de Arango; C. Torres, J. Bravo
Paraguay	Juan Carlos Jara Rodríguez; Irmina Toledo; Ofelia Cuevas; Tomasa Portillo; Mirian Alvarez
Peru	César Antonio Bonilla Asalde; Yvonne Cortez Jara; Eladia Quispe Yataco
Puerto Rico	Ada S. Martinez; María del Carmen Bermúdez
Saint Kitts & Nevis	Dianne Francis-Delaney; William Turner
Saint Lucia	Alina Montane Jaime
St Vincent & Grenadines	Roger Duncan; Anneke Wilson
Suriname	Roel Mahabier
Trinidad & Tobago	Dottin Ramoutar; Leilawat Mohammed
Turks & Caicos Islands	Farina Hussein
Uruguay	Jorge Rodríguez de Marco
US Virgin Islands	
USA	Kenneth G. Castro; Sandy Althomsons
Venezuela	Mercedes España Cedeño; Andrea Maldonado Saavedra

**This list shows the people named on the data collection form sent to WHO in 2006, not necessarily the current NTP manager. It is intended as an acknowledgement rather than a directory.**



Table A3.2. Case notifications and case detection rates, DOTS and non-DOTS combined, the Americas, 2006

	Notified TB cases, DOTS and non-DOTS combined												Incidence and case detection rates				Proportions												
	Population		All notified		New and relapse		New pulmonary		New extra-pulmonary		Other		Re-treatment cases		Relapse		After default		Other re-treat.		New pulm. lab. confirm.		Estimated incidence all forms number	Case detection rate ss+ new %	ss+ (% of pulm.)	ss+ (% of new+relapse)	Extrapulm. (% of new+relapse)	Re-treat (% of new+re-treat.)	
	thousands	number	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate							number
Anguilla	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	100	100	13	5
Antigua & Barbuda	84	4	4	5	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	86	190	100	100	13	5
Argentina	39 134	10 132	9 406	24	4 834	12	2 669	1 266	585	52	256	201	269	5 245								15 231	6 787	61	71	64	51	100	100
Bahamas	327																					126	52			100	80	20	
Barbados	293	5	5	2	4	1	0	1	0	0	0	0	0	5								32	14	16	29	100	80	20	
Belize	282	87	85	30	60	21	18	0	0	7	0	0	2	60								137	71	60	57	100	100	10	
Bermuda	64	3	3	5	2	3	0	1	0	0	0	0	0	2								100	67	126	186	100	67	33	
Bolivia	9 354	9 200	9 014	96	5 788	62	1 064	1 654	508	32	154	0	5 788									18 562	8 344	69	69	84	64	18	8
Brazil	189 323	83 293	77 632	41	41 117	22	22 585	10 656	0	3 274	219	2 282	3 160	43 201								93 933	59 371	79	69	85	53	14	11
British Virgin Islands	22																					3	1			100	100	11	
Canada	32 577	1 621	1 434	4	407	1	586	402	0	39	0	86	101	725								1 678	745	83	55	41	28	28	8
Cayman Islands	46	0	0	0	0	0	0	0	0	0	0	0	0	0								2	1	0	0	100	100	0	
Chile	16 465	2 659	2 486	15	1 533	9	233	571	0	149	1	26	46	1 588								2 417	1 065	97	141	87	62	23	7
Colombia	45 568	11 128	11 128	24	7 648	17	1 348	1 700	0	432	0	0	0	8 457								20 522	9 192	52	42	85	69	15	4
Costa Rica	4 399	512	488	11	285	6	92	95	0	16	3	21	0	358								620	278	76	102	76	58	19	8
Cuba	11 267	765	765	7	432	4	188	86	0	49	0	0	0	432								1 018	458	70	94	70	56	13	6
Dominica	68	19	19	28	8	12	0	0	0	0	0	0	0	8								8	5	177	165	42	42	10	12
Dominican Republic	9 615	4 819	4 561	47	2 698	28	883	631	41	338	19	239	0	2 699								8 534	3 812	49	70	75	58	14	12
Ecuador	13 202	4 920	4 594	35	3 182	24	540	455	417	82	168	76	0	3 184								16 958	7 612	25	42	85	69	10	15
El Salvador	6 762	1 679	1 644	24	913	14	347	283	0	101	17	18	0	913								3 985	1 487	46	61	72	56	17	8
Grenada	106	1	1	1	1	1	0	0	0	0	0	0	0	1								5	2	19	42	100	100	0	
Guatemala	13 029	3 674	3 626	28	2 501	19	414	238	360	113	18	30	0	3 513								10 277	4 489	34	56	86	69	7	4
Guyana	739	747	710	96	294	40	372	19	25	1	36	0	513									1 215	535	56	55	44	41	3	8
Haiti	9 446	14 002	13 959	148	7 461	79	4 796	1 436	0	266	0	43	0	7 461								28 280	12 538	48	60	61	53	10	2
Honduras	6 969	3 197	3 197	46	2 018	29	656	350	0	173	0	0	0	2 018								5 322	2 361	57	85	75	63	11	5
Jamaica	2 699	98	95	4	61	2	18	13	1	2	0	2	0	61								197	84	47	73	77	64	14	5
Mexico	105 342	18 710	17 887	17	11 874	11	2 468	2 751	794	90	569	117	47	12 096								22 473	10 087	76	118	83	66	15	8
Montserrat	6	0	0	0	0	0	0	0	0	0	0	0	0	0								1	0	0	0	100	100	0	
Netherlands Antilles	189	5	5	3	5	3	0	0	0	0	0	0	0	5								14	6	35	78	100	100	0	
Nicaragua	5 532	2 105	1 997	36	1 285	23	408	177	0	127	25	83	0	1 285								3 203	1 439	58	89	76	64	9	11
Panama	3 288	1 547	1 636	50	868	26	454	254	0	60	10	47	154	0								1 463	638	108	134	65	52	16	15
Paraguay	6 016	2 308	2 306	38	1 441	24	709	432	6	0	0	0	0	1 446								4 267	1 912	54	75	67	62	7	15
Peru	27 889	36 643	34 311	124	19 251	70	6 045	5 035	835	3 145	642	784	908	20 066								44 815	20 076	70	96	76	56	15	15
Puerto Rico	3 969	112	112	3	69	2	36	7	0	0	0	0	0	106								186	84	60	82	66	62	6	6
Saint Kitts & Nevis	50	1	1	2	1	1	2	0	0	0	0	0	0	1								6	2	18	40	100	100	0	
Saint Lucia	163	15	15	9	13	8	0	0	0	2	0	0	0	13								28	13	47	104	100	87	10	13
St Vincent & Grenadines	120	19	13	11	8	7	4	0	0	1	0	0	0	13								35	16	34	50	67	62	10	37
Suriname	455	136	127	28	63	14	43	16	1	4	0	5	2	63								290	128	42	49	59	50	13	8
Trinidad & Tobago	1 328	253	232	17	149	11	60	149	1	6	1	20	149	149								112	47	202	316	71	64	7	11
Turks & Caicos Islands	25	8	7	28	7	28	0	0	0	0	0	0	0	7								4	2	167	371	100	100	0	
Uruguay	3 331	571	557	17	305	9	152	70	0	30	0	2	12	357								910	397	58	77	67	55	13	8
US Virgin Islands	111													11								11	5			100	100	0	
USA	302 441	13 779	13 779	5	5 091	2	5 792	2 889	7	85	22	85	27	9 069								13 148	5 777	105	88	47	37	21	6
Venezuela	27 191	6 539	6 705	25	3 547	13	1 659	1 157	85	257	22	85	27	3 632								11 271	5 006	57	71	68	53	17	6
<b>AMR</b>	<b>899 388</b>	<b>235 816</b>	<b>224 648</b>	<b>25</b>	<b>125 178</b>	<b>14</b>	<b>54 670</b>	<b>32 392</b>	<b>19 211</b>	<b>10 387</b>	<b>1 182</b>	<b>4 871</b>	<b>4 750</b>	<b>465</b>	<b>1 356 462</b>							<b>330 724</b>	<b>164 952</b>	<b>65</b>	<b>76</b>	<b>70</b>	<b>56</b>	<b>14</b>	<b>9</b>

ss+ indicates sputum smear-positive; ss- sputum smear-negative; unk., sputum smear result unknown; re-treat., re-treatment; pulm.lab. confirmed, pulmonary case confirmed by positive smear or culture. See Explanatory notes on page 187 for further details. Data can be downloaded from www.who.int/tb

Table A3.3 DOTS coverage, case notifications and case detection rates, the Americas, 2006

Country	TB cases reported from DOTS services										Estimated incidence and case detection rate										Proportions		
	DOTS coverage %	New and relapse coverage %	ss+ number	unk. number	ss- number	Other pulmonary new number	Relapse number	After failure number	Other re-treat. number	Re-treatment cases number	New pulm. lab. confirm. number	Estimated incidence all forms number	ss+ number	ss- number	all new ss+ %	Case detection rate new ss+ %	ss+ (% of pulm.)	ss+ (% of new relapse)	Extrapulm. (% of new+re-treat.)	Re-treat. (% of new+re-treat.)			
Anguilla	0											3	1			64	51	13		5			
Antigua & Barbuda	100	9 408	24	4 834	12	2 689	1 286	585	52	256	201	269	5245		71								
Argentina	0																						
Bahamas	100	5	2	4	1	0	1	0	0	0	0	0	5		29	100	80	20		10			
Barbados	100	85	30	60	21	18							126	52	61								
Belize	100												32	14	16								
Bermuda	0																						
Bolivia	47	9 014	96	5 788	62	1 064	1 654	508	32	154	0	5 788	18 582	8 344	46	69	84	64	18	8			
Brazil	86	61 127	32	32 463	17	17 688	8 374	2 602	166	1 790	2 386	0	93 933	59 371	62	55	65	53	14	11			
British Virgin Islands	100	1 434	4	407	1	586	402	0	0	0	86	101	725	1 678	745	83	41	28	28	8			
Canada	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Cayman Islands	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Chile	100	2 466	15	1 533	9	233	571	0	149	1	26	46	1 598	2 417	1 085	97	87	62	23	7			
Colombia	60	11 128	24	7 648	17	1 348	1 700	0	432	0	0	0	8 457	20 522	9 192	52	83	69	15	4			
Costa Rica	100	468	11	285	6	82	95	0	16	3	21	0	358	620	278	76	76	58	19	8			
Cuba	100	768	7	432	4	188	96	0	49	0	0	0	432	1 016	488	70	94	70	36	13	6		
Dominica	100	19	28	8	12	11	0	0	0	0	0	0	8	11	5	177	42	42	14	12			
Dominican Republic	80	4 316	45	2 515	26	847	600	38	316	19	220	0	2 553	8 534	3 812	47	68	75	58	14	15		
Ecuador	100	3 728	28	2 610	20	402	378	0	338	70	136	72	2 612	16 958	7 612	20	34	87	70	10	15		
El Salvador	100	1 644	24	913	14	347	283	0	101	17	18	0	913	3 385	1 487	46	61	72	56	17	8		
Grenada	0																						
Guatemala	70	3 628	28	2 501	19	414	238	360	113	18	30	3513	10 277	4 489	34	56	86	69	7	4			
Guyana	60	469	63	239	32	194	15	21	32	1	32	370	1 215	535	37	45	55	51	3	11			
Haiti	91	13 170	139	6 873	73	4 686	1 377	0	234	0	35	0	6 873	28 290	12 538	46	55	59	52	10	2		
Honduras	100	3 197	46	2 018	29	656	350	0	173	0	0	2 018	5 322	2 361	57	85	75	63	11	5			
Jamaica	100	95	4	61	2	18	13	2	2	0	2	61	197	84	47	73	77	64	14	5			
Mexico	100	17 887	17	11 874	11	2 468	2 751	794	90	569	117	47	12 096	22 473	10 087	76	118	83	66	15	8		
Montserrat	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Netherlands Antilles	0																						
Nicaragua	80	1 997	36	1 285	23	408	177	0	127	25	83	0	1 285	3 203	1 439	58	76	64	9	11			
Panama	100	1 636	50	858	26	464	254	0	60	10	47	154	888	1 463	638	108	134	65	52	16	15		
Paraguay	85	1 325	22	911	15	341	71	2	2	312	0	912	4 267	1 912	31	48	73	69	5				
Peru	100	34 311	124	19 251	70	6 045	5 035	835	3 145	642	784	906	20 086	44 815	20 076	70	96	76	56	15			
Puerto Rico	100	112	3	69	2	36	7	0	0	0	0	0	186	84	60	82	66	62	6				
Saint Kitts & Nevis	100	1	2	1	2	0	0	0	0	0	0	0	6	2	18	40	100	100		6			
Saint Lucia	100	15	9	13	8	0	0	0	0	0	0	13	28	13	47	104	100	87		13			
St Vincent & Grenadines	100	13	11	8	7	4	0	0	1	0	0	6	35	16	34	50	67	62		37			
Suriname	0																						
Trinidad & Tobago	0																						
Turks & Caicos Islands	100	7	28	7	28	0	0	0	0	1	0	0	7	4	2	167	100	100		13			
Uruguay	100	557	17	305	9	152	70	0	30	0	2	12	357	910	397	58	77	67	55	13	8		
US Virgin Islands	100	13 79	5	5 091	2	5 792	2 889	7	0 099	13 448	5 777	105	88	47	37	21	68	53					
Venezuela	100	6 705	25	3 547	13	1 659	1 157	85	257	22	85	27	3 632	11 271	5 006	57	71	68	53		6		
<b>AMR</b>	<b>93</b>	<b>204 547</b>	<b>23</b>	<b>114 412</b>	<b>13</b>	<b>48 830</b>	<b>29 824</b>	<b>1 913</b>	<b>9 568</b>	<b>1 116</b>	<b>4 291</b>	<b>3 970</b>	<b>463</b>	<b>124 271</b>	<b>59</b>	<b>69</b>	<b>70</b>	<b>56</b>	<b>15</b>	<b>9</b>			

ss+ indicates sputum smear-positive; ss-, sputum smear-negative; unk., sputum smear result unknown; re-treat., re-treatment; pulm.lab. confirmed, pulmonary case confirmed by positive smear or culture. See Explanatory notes on page 187 for further details. Data can be downloaded from www.who.int/tb

Table A3.4. Laboratory services, collaborative TB/HIV activities and management of MDR-TB, the Americas, 2005–2006

	Laboratory services, 2006										Collaborative TB/HIV activities										2006					Management of MDR-TB, 2006				
	number of labs working with NTP					smear labs included in EQA					TB pts tested for HIV	TB pts HIV-positive	HIV+ TB pts CPT	HIV+ TB pts ART	TB pts tested for HIV	TB pts HIV-positive	HIV+ TB pts CPT	HIV+ TB pts ART	Lab-confirmed MDR	DST in new cases	MDR in new cases	Re-treatment DST	Re-treatment MDR							
	smear	culture	DST	DST	in EQA	smear	in EQA	in EQA	in EQA	in EQA														in EQA	in EQA	in EQA	in EQA	in EQA	in EQA	in EQA
Anguilla	1	0	0	0	0	6	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0							
Antigua & Barbuda	1	0	0	0	0	6	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0							
Argentina	725	117	18	18	143																									
Bahamas	1	1	1	1	1	8	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0							
Barbados	2	1	1	1	1	106	25	17	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0							
Belize	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Bermuda	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Bolivia	486	486	486	486	486	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Brazil	4 044	193	38	38	2 100	51 552	8 249	4 442	6 995	6 995	6 995	6 995	6 995	6 995	6 995	6 995	6 995	399	34	34	34	34	34							
British Virgin Islands	10	10	10	10	10	414	63	0	0	0	0	0	0	0	0	0	0	388	55	8	104	2	2							
Canada	4	4	4	4	4	1	0	0	0	0	0	0	0	0	0	0	0	61	105	0	115	7	7							
Cayman Islands	186	47	1	1	186	5 537	353	0	0	0	0	0	0	0	0	0	0	5 978	386	14	138	25	25							
Chile	2 176	841	3	2 176	374	374	50	0	42	42	42	42	42	42	42	42	42	4	263	14	40	40	40							
Colombia	37	27	1	80	80	729	0	16	0	0	0	0	0	0	0	0	0	724	1	0	0	0	0							
Costa Rica	480	480	480	480	480	729	0	0	0	0	0	0	0	0	0	0	0	1 771	218	0	0	0	0							
Cuba	164	5	1	152	152	78	3	0	0	0	0	0	0	0	0	0	0	1 771	218	0	0	0	0							
Dominican Republic	270	11	1	270	270	10	3	0	0	0	0	0	0	0	0	0	0	1 631	176	0	0	0	0							
Ecuador	199	7	1	199	199	1 544	188	37	71	71	71	71	71	71	71	71	71	0	0	0	0	0	0							
El Salvador	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Grenada	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Guatemala	136	8	3	1	1	600	478	0	1 160	1 160	1 160	1 160	1 160	1 160	1 160	1 160	1 160	1 429	465	0	0	0	0							
Guyana	239	1	1	91	91	456	80	0	0	0	0	0	0	0	0	0	0	566	75	0	0	0	0							
Haiti	1	1	1	1	1	5 062	1 797	0	0	0	0	0	0	0	0	0	0	722	164	0	0	0	0							
Honduras	144	144	144	144	144	1 455	200	12	0	0	0	0	0	0	0	0	0	1 787	202	0	0	0	0							
Jamaica	3	0	0	2	2	79	28	0	15	15	15	15	15	15	15	15	15	81	25	0	0	0	0							
Mexico	1 235	31	7	658	658	1 382	217	0	0	0	0	0	0	0	0	0	0	1 382	217	0	0	0	0							
Montserrat	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0							
Netherlands Antilles	143	3	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	1	1	5	1	0	0							
Nicaragua	64	7	1	64	64	556	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Panama	92	4	1	68	68	1 569	200	0	20	20	20	20	20	20	20	20	20	1 566	215	0	0	0	0							
Paraguay	1 350	67	7	1 350	1 350	668	668	0	0	0	0	0	0	0	0	0	0	648	648	0	0	0	0							
Peru	1	1	1	1	1	93	28	0	0	0	0	0	0	0	0	0	0	101	20	0	0	0	0							
Puerto Rico	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0							
Saint Kitts & Nevis	2	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0							
Saint Lucia	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0							
St Vincent & Grenadines	1	1	1	1	1	7	1	0	0	0	0	0	0	0	0	0	0	18	2	0	0	0	0							
Suriname	1	1	1	1	1	87	20	2	2	2	2	2	2	2	2	2	2	87	20	0	0	0	0							
Trinidad & Tobago	1	1	1	1	1	124	42	12	15	15	15	15	15	15	15	15	15	250	73	13	36	1	1							
Turks & Caicos Islands	1	1	1	1	1	5	1	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0							
Uruguay	1	1	1	1	1	574	74	0	0	0	0	0	0	0	0	0	0	533	82	18	0	29	1							
US Virgin Islands	1 657	1 657	1 657	1 657	1 657	8 273	1 035	0	152	152	152	152	152	152	152	152	152	3 224	400	0	188	104	21							
Venezuela	303	22	1	121	121	2 878	392	0	0	0	0	0	0	0	0	0	0	22	30	1	1	1	1							
<b>AMR</b>	<b>14 221</b>	<b>4 175</b>	<b>2 388</b>	<b>9 341</b>	<b>9 341</b>	<b>84 032</b>	<b>14 232</b>	<b>4 539</b>	<b>8 492</b>	<b>8 492</b>	<b>8 492</b>	<b>8 492</b>	<b>8 492</b>	<b>8 492</b>	<b>8 492</b>	<b>8 492</b>	<b>8 492</b>	<b>75 775</b>	<b>11 396</b>	<b>7 022</b>	<b>6 840</b>	<b>2 001</b>	<b>689</b>							

ART indicates antiretroviral therapy; CPT, co-trimoxazole preventive therapy; DST, drug susceptibility testing; EDA, external quality assurance; HIV+, HIV-positive; pIs, patients. See Explanatory notes on pages 187 for further details. Some countries provided the number of TB patients found to be HIV-positive, but did not provide the number of TB patients tested. The regional total of TB patients tested is therefore lower than the number of patients actually tested, and cannot be used to calculate a regional estimate of HIV prevalence in TB patients. Data can be downloaded from [www.who.int/tb](http://www.who.int/tb)



Table A3.6 Re-treatment outcomes, the Americas, 2005 cohort

	Relapse, DOTS						After failure, DOTS						After default, DOTS														
	Number registrd	Compl- eted	Died	Failed	Trans- ferred	Not eval.	Number registrd	Compl- eted	Died	Failed	Trans- ferred	Not eval.	Number registrd	Compl- eted	Died	Failed	Trans- ferred	Not eval.									
	% of cohort						% of cohort						% of cohort														
Anguilla	226	11	18	4	0	7	4	56	29				381	10	36	8	1	20	3	22	46						
Antigua & Barbuda													7	57	43	0	0	0	0	0	100						
Argentina																											
Bahamas																											
Barbados																											
Belize																											
Bermuda																											
Bolivia	772	63	3	5	3	7	3	16	66																		
Brazil	2 426	22	35	6	1	11	10	15	57																		
British Virgin Islands																											
Canada	42	7	62	7	0	0	2	21	69																		
Cayman Islands	0	0	0	0	0	0	0	0	0																		
Chile	129	71	3	16	1	7	3	0	74																		
Colombia																											
Costa Rica	19	68	21	5	5	0	0	0	89																		
Cuba	39	82						10	82																		
Dominica																											
Dominican Republic	312	63	4	5	8	15	5	0	68																		
Ecuador	315	64	4	4	10	10	2	5	68																		
El Salvador	78	79	0	6	4	4	0	6	79																		
Grenada																											
Guatemala																											
Guyana	3	100						0	100																		
Haiti	173	66	7	0	0	9	5	13	73																		
Honduras	169	59	9	6	2	17	7	0	69																		
Jamaica																											
Mexico	646	56	7	5	5	9	1	16	63																		
Montserrat																											
Netherlands Antilles																											
Nicaragua	118	74	13	8	0	5	0	0	66																		
Paraguay	58	57	19	5	3	14	2	0	76																		
Peru	1 967	80							80																		
Puerto Rico																											
Saint Kitts & Nevis																											
Saint Lucia																											
St Vincent & Grenadines																											
Suriname																											
Trinidad & Tobago																											
Turks & Caicos Islands	0	0	0	0	0	0	0	0	0																		
Uruguay	30	57	17	13	3	7	0	3	73																		
US Virgin Islands																											
USA																											
Venezuela	247	80						2	80																		
<b>AMR</b>	<b>7 776</b>	<b>53</b>	<b>14</b>	<b>5</b>	<b>3</b>	<b>10</b>	<b>5</b>	<b>10</b>	<b>67</b>	<b>861</b>	<b>17</b>	<b>21</b>	<b>7</b>	<b>11</b>	<b>13</b>	<b>5</b>	<b>25</b>	<b>38</b>	<b>4 014</b>	<b>23</b>	<b>19</b>	<b>6</b>	<b>2</b>	<b>22</b>	<b>7</b>	<b>22</b>	<b>41</b>

Not eval. indicates not evaluated (percentage of registered cases for which outcomes were not recorded); success, sum of cured and completed; cases registrd, the denominator for calculating treatment outcomes. The number of cases registered for treatment in 2005 is used as the denominator for calculating treatment outcomes unless it is missing or is less than the sum of outcomes, in which case the sum of outcomes is used. Data can be downloaded from www.who.int/tb

Table A3.7 DOTS treatment success and case detection rates, the Americas, 1994–2006

	DOTS new smear-positive treatment success (%)										DOTS new smear-positive case detection rate (%)														
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Anguilla																									
Antigua & Barbuda																									
Argentina																									
Bahamas																									
Barbados																									
Belize																									
Bermuda																									
Bolivia																									
Brazil																									
British Virgin Islands																									
Canada																									
Carman Islands																									
Chile																									
Colombia																									
Costa Rica																									
Cuba																									
Dominica																									
Dominican Republic																									
Ecuador																									
El Salvador																									
Grenada																									
Guatemala																									
Guyana																									
Haiti																									
Honduras																									
Jamaica																									
Mexico																									
Monserrat																									
Netherlands Antilles																									
Nicaragua																									
Panama																									
Paraguay																									
Peru																									
Puerto Rico																									
Saint Kitts & Nevis																									
Saint Lucia																									
St Vincent & Grenadines																									
Suriname																									
Trinidad & Tobago																									
Turks & Caicos Islands																									
Uruguay																									
US Virgin Islands																									
USA																									
Venezuela																									
<b>AMR</b>	<b>76</b>	<b>77</b>	<b>83</b>	<b>82</b>	<b>81</b>	<b>83</b>	<b>81</b>	<b>82</b>	<b>83</b>	<b>83</b>	<b>82</b>	<b>78</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>27</b>	<b>31</b>	<b>34</b>	<b>41</b>	<b>40</b>	<b>43</b>	<b>47</b>	<b>56</b>	<b>60</b>	<b>69</b>

Treatment success, sum of cured and completed; DOTS new smear-positive case detection rate, notified new smear-positive cases divided by estimated incident cases. The table includes updated information, data shown here may differ from those published in previous reports. Data can be downloaded from [www.who.int/tb](http://www.who.int/tb)



Table A3.9. New smear-positive case notification rates by age and sex, DOTS and non-DOTS, the Americas, 2006

	MALE					FEMALE					ALL											
	0-14	15-24	25-34	35-44	45-54	55-64	65+	0-14	15-24	25-34	35-44	45-54	55-64	65+	0-14	15-24	25-34	35-44	45-54	55-64	65+	
Anguilla																						
Antigua & Barbuda																						
Argentina	1	15	16	15	18	23	20	1	13	14	10	9	10	9	1	14	15	13	13	16	13	
Bahamas																						
Barbados	6	14	18	45	49	17	53	4	21	22	19	51	108	99	5	17	20	32	50	62	4	
Belize																						
Bermuda																						
Bolivia	7	124	102	95	113	148	209	10	85	67	49	48	59	101	9	105	84	72	79	101	149	
Brazil	1	27	39	47	52	50	43	1	18	22	19	18	17	17	1	23	31	33	34	32	28	
British Virgin Islands																						
Canada	0	2	2	1	2	1	3	0	2	1	1	1	0	2	0	2	1	1	1	1	3	
Cayman Islands																						
Chile	1	7	12	14	20	28	35	3	5	8	16	9	9	15	0	6	10	10	14	18	24	
Colombia	3	17	20	24	35	45	74	3	14	18	16	15	21	35	3	15	19	20	25	32	62	
Costa Rica	0	6	10	9	14	19	20	1	6	7	7	6	6	8	0	6	9	8	0	12	13	
Cuba	3	8	8	9	7	9	8	1	2	2	2	2	2	3	1	2	5	5	5	5	6	
Dominica																						
Dominican Republic	2	39	65	56	48	41	34	2	33	43	31	25	24	21	2	36	54	43	36	33	28	
Ecuador	1	37	49	42	43	49	49	2	26	31	23	23	24	26	2	32	40	32	33	36	37	
El Salvador	1	15	21	28	32	32	63	1	11	13	12	18	20	29	1	13	17	20	24	25	43	
Grenada	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	
Guatemala																						
Guyana	5	61	114	104	90	56	24	1	24	40	41	37	14	4	3	42	77	75	66	37	14	
Haiti	5	108	171	145	139	98	97	8	108	147	129	110	79	58	6	108	158	137	124	88	76	
Honduras	2	29	60	65	61	71	109	2	28	44	34	36	62	83	2	28	52	49	48	66	95	
Jamaica	0	3	5	5	5	8	10	0	1	3	2	1	0	1	0	2	4	3	3	4	5	
Mexico	1	11	15	20	26	33	43	1	7	8	9	15	23	23	1	9	12	14	20	28	32	
Montserrat																						
Netherlands Antilles	0	0	0	14	8	12	0	5	0	0	0	0	0	0	2	0	0	6	3	5	0	
Nicaragua	1	27	36	46	51	79	68	2	28	33	30	32	35	32	2	28	35	38	41	57	49	
Panama	1	34	50	47	56	46	59	3	22	32	23	28	25	32	2	28	41	35	42	35	45	
Paraguay	2	30	48	42	58	76	82	2	21	19	22	22	39	43	2	25	34	32	40	58	61	
Peru	9	150	109	87	90	112	122	10	102	83	62	61	69	65	10	126	96	74	75	90	91	
Puerto Rico	0	1	3	2	6	5	3	0	1	1	2	1	1	1	0	0	1	2	2	3	2	
Saint Kitts & Nevis																						
Saint Lucia																						
St Vincent & Grenadines																						
Suriname	7	13	39	27	18	8	54	3	2	12	3	35	0	12	5	8	25	15	27	4	31	
Trinidad & Tobago	1	5	24	24	27	35	32	1	2	9	5	5	16	46	1	4	17	14	15	25	40	
Turks & Caicos Islands																						
Uruguay	0	15	22	17	16	26	16	1	9	8	5	3	7	4	1	12	15	11	9	16	9	
US Virgin Islands																						
USA	0	2	3	3	4	3	4	0	1	2	1	1	1	1	0	1	2	2	2	2	2	
Venezuela	0	12	19	23	32	32	50	1	12	14	11	13	16	30	1	12	16	17	23	24	39	
<b>AMR</b>	<b>1</b>	<b>21</b>	<b>24</b>	<b>23</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>2</b>	<b>15</b>	<b>16</b>	<b>12</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>1</b>	<b>18</b>	<b>20</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	

Rates are per 100 000 population of each age/sex group. Rates are calculated excluding those countries for which breakdown of notified cases or population by age and sex is missing. Data can be downloaded from [www.who.int/tb](http://www.who.int/tb)



Table A3.11 Case notification rates, the Americas, 1980–2006

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006		
Anguilla	0	57	0	0	14	0	0	0	0	0	0	0	0	0	0	19	0	6	5	4	5	1	0	0	0	0	0		
Antigua & Barbuda	11	4	0	1	4	3	11	0	0	5	2	0	10	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Argentina	58	59	60	59	55	53	48	43	42	39	38	37	38	41	40	39	38	35	34	33	32	31	31	28	28	25	24		
Bahamas	33	31	25	26	23	27	22	18	21	21	18	20	24	22	28	20	21	30	23	23	27	14	12	17	17	17	17		
Barbados	26	1	12	7	5	3	1	1	2	2	2	2	2	2	2	1	2	2	1	1	1	2	2	2	7	2	2		
Belize	15	22	29	91	22	15	14	24	16	17	31	47	33	40	28	44	45	47	53	44	43	54	53	38	31	37	30		
Bermuda	2	4	9	18	5	10	3	2	3	2	3	0	5	7	0	0	6	0	0	0	0	0	0	0	0	9	5		
Bolivia	82	93	85	91	71	129	112	144	167	193	167	164	136	120	129	193	133	126	127	121	122	124	118	111	109	106	96		
Brazil	60	69	69	66	66	62	60	58	57	54	50	56	56	56	48	56	53	50	56	46	45	42	45	44	47	43	41		
British Virgin Islands																	16												
Canada	11	10	10	9	9	8	8	7	7	7	7	7	7	7	7	7	6	7	6	6	5	5	5	5	5	5	4		
Cayman Islands	0	11	0	5	5	19	5	0	0	0	8	11	10	7	7	6	0	0	0	8	5	12	2	0	0	2	0		
Chile	76	65	60	60	55	55	56	50	50	52	47	41	39	33	29	29	29	26	24	23	20	19	16	14	17	13	15		
Colombia	41	40	41	45	41	38	36	35	34	33	36	34	31	30	24	26	25	20	23	27	28	27	26	27	25	23	24		
Costa Rica	17	22	18	19	15	14	15	15	15	15	10	7	6	4	9	10	17	18	19	19	22	15	16	13	13	17	12	11	
Cuba	12	8	8	8	7	7	6	6	6	6	5	5	4	7	15	14	13	12	11	10	11	8	8	7	7	7	7		
Dominica	27	35	25	22	7	11	48	38	10	19	9	20	19	10	17	12	15	9	7	65	61	67	61	54	45	51	49	53	47
Dominican Republic	37	29	40	47	48	35	39	36	44	44	36	25	46	52	55	51	72	80	60	47	96	46	46	50	47	34	35		
Ecuador	50	48	46	46	49	53	61	61	56	55	80	65	68	64	67	69	72	80	60	47	96	46	46	50	47	34	35		
El Salvador	49	45	46	44	33	31	34	34	48	12	46	44	47	62	71	43	29	28	27	24	23	24	21	21	21	27	24		
Grenada	19	1	1	6	4	2	1	2	0	4	2	0	1	3	0	3	4	0	2	2	5	0	2	2	2	2	1		
Guatemala	80	92	99	80	85	83	59	69	67	56	43	29	27	26	26	31	32	28	26	26	26	21	25	22	27	26	28		
Guyana	16	15	18	20	22	29	25	16	20	16	23	18	25	12	36	40	42	55	43	55	57	57	80	86	82	86	96		
Haiti	146	113	56	112	83	78	131	128	118	116	141																		
Honduras	46	45	44	49	52	80	97	94	86	85	75	91	80	71	79	89	73	69	83	75	103	80	70	59	54	49	46		
Jamaica	8	8	7	7	6	4	6	3	4	5	5	5	5	5	5	4	5	5	5	4	5	5	4	5	4	4	4		
Mexico	45	46	34	31	19	20	17	18	19	19	17	18	17	17	18	12	22	25	22	20	18	19	17	17	15	18	17		
Montserrat	8	0	0	9	61	80	45	118	55	46	9	9	0	0	0	0	15	35	0	0	0	0	0	20	0	18	0		
Netherlands Antilles																	3	8	4	2	3	5	8	5	6	3	3		
Nicaragua	40	111	90	78	75	70	69	77	69	77	71	66	66	63	60	61	63	58	53	51	47	47	40	43	41	35	36		
Panama	33	29	28	21	19	28	32	34	33	28	35	35	30	45	32	49	48	53	50	48	40	57	51	52	54	51	50		
Paraguay	42	42	42	52	48	52	43	38	36	55	51	52	43	44	39	36	42	39	36	40	36	38	38	36	40	35	38		
Peru	92	123	119	122	119	125	124	130	177	167	174	183	232	224	207	190	172	171	173	169	151	143	137	117	123	123	124		
Puerto Rico	21	16	14	14	12	10	11	9	8	9	5	7	7	7	7	7	6	7	5	5	5	3	3	3	3	3	3		
Saint Kitts & Nevis	16	9	14	5	7	0	0	0	0	0	0	2	10	14	5	12	7	27	11	7	0	4	6	2	4	0	2		
Saint Lucia	35	33	30	39	44	17	26	19	24	21	9	18	18	18	17	8	24	15	13	11	6	10	11	9	9	9			
St Vincent & Grenadines	78	11	14	4	22	13	9	3	6	3	2	1	4	12	0	12	5	5	7	8	14	9	9	12	7	6	11		
Suriname	22	23	15	21	20	13	15	20	19	18	20	12	14	11	13	13	18	20	22	20	17	22	21	22	26	28			
Trinidad & Tobago	7	7	6	10	9	10	10	9	10	10	10	11	11	9	10	13	16	20	15	12	15	16	10	11	13	13	17		
Turks & Caicos Islands	27	0	24	58	0	42	20	117												95									
Uruguay	64	58	49	46	46	46	36	34	31	32	29	24	22	22	21	19	22	22	20	19	19	21	16	19	22	19	17		
US Virgin Islands	0	1	1	2	3	1	1	2	6	4	4	4	4	4	4	4	7												
USA	12	12	11	10	9	9	9	9	9	9	10	10	10	9	9	8	8	7	7	6	6	6	5	5	5	5	5		
Venezuela	28	26	26	26	28	28	28	27	24	24	28	26	26	24	23	25	25	26	27	28	26	25	24	26	26	26	25		
<b>AMR</b>	<b>37</b>	<b>39</b>	<b>37</b>	<b>37</b>	<b>34</b>	<b>34</b>	<b>33</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>33</b>	<b>32</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>33</b>	<b>32</b>	<b>32</b>	<b>32</b>	<b>29</b>	<b>28</b>	<b>27</b>	<b>27</b>	<b>26</b>	<b>27</b>	<b>26</b>	<b>25</b>		

Rates are per 100 000 population. From 1985 on, number shown is notification rate of new and relapse cases. The table includes updated information; data shown here may differ from those published in previous reports. Data can be downloaded from [www.who.int/tb](http://www.who.int/tb)

Table A3.12 New smear-positive cases notified, numbers and rates, the Americas, 1993-2006

	Number of cases																	Rate (per 100 000 population)																
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006						
Anguilla																																		
Antigua & Barbuda																																		
Argentina	5 937	5 696	5 698	5 787	5 307	5 186	4 830	4 749	5 595	5 498	4 961	4 760	4 709	4 834	17	17	16	16	15	14	13	13	15	15	13	12	12	12						
Bahamas	41	41	38	25	57	30	37	56	32	29	37				15	15	14	9	20	10	12	18	10	9	12									
Barbados																																		
Belize	50	36	36	46	44	52	48	44	53	71	62	34	59	60	25	17	17	17	14	22	20	18	21	28	24	13	21	21						
Bermuda																																		
Bolivia	6 833	6 905	7 010	6 949	6 458	6 750	6 673	6 458	6 672	6 829	6 344	6 213	6 278	5 788	96	94	94	91	83	85	82	78	79	79	72	69	68	62						
Brazil	39 167	45 650	44 503	43 490	43 554	41 619	41 186	38 478	41 371	39 938	42 981	42 093	41 117		25	25	28	27	26	26	24	24	22	23	22	23	23	22						
British Virgin Islands																																		
Canada	488	483	436	430	473	438	455	492	458	408	332	438	433	407	2	2	1	1	2	1	1	1	2	1	1	1	1	1	1					
Caribbean Islands																																		
Chile	2 629	1 951	1 561	1 662	1 582	1 576	1 497	1 290	1 355	1 412	1 276	1 297	1 188	1 533	19	14	11	11	11	10	10	10	8	9	8	8	7	9						
Colombia	6 987	6 522	7 530	7 572	6 990	6 869	6 329	6 368	8 022	7 787	7 872	7 640	6 870	7 648	19	17	20	19	15	17	20	20	19	18	18	17	15	17						
Costa Rica	230	245	302	245	353	458	349	385	328	346	419	330	285		5	8	8	8	7	7	6	6	5	5	5	4	4	6						
Cuba	565	914	834	835	765	746	720	675	559	540	507	453	467	432	5	8	8	8	7	7	7	6	6	5	5	4	4	4						
Dominica	6	5	5	7	5	5	5	5	2	2	2	2	2	2	8	9	12	7	10	7	7	7	6	5	5	4	4	12						
Dominican Republic	2 287	3 177	2 787	3 733	3 162	2 689	3 278	2 907	2 622	2 179	2 806	2 720	2 949	2 658	30	40	35	46	38	32	38	33	29	24	31	29	31	28						
Ecuador	5 325	6 674	5 890	6 426	7 214	4 900	4 300	5 064	4 439	4 223	4 488	4 340	3 048	3 182	49	60	60	52	55	61	41	35	41	36	33	35	34	23						
El Salvador	2 471	2 144	965	965	882	1 071	1 023	1 008	1 003	980	870	926	1 059	913	46	39	46	39	17	15	18	17	16	16	15	13	14	16						
Grenada	0	3	2	0	1	2	3	0	0	0	2	2	2	1																				
Guatemala	2 128	1 994	2 368	2 224	2 218	2 255	2 264	2 052	1 669	1 865	1 795	2 339	2 420	2 501	22	20	24	22	21	21	21	18	15	16	15	19	19	19						
Guyana	51	61	85	71	105	85	178	119	174	138	244	164	240	294	7	8	12	10	14	12	24	16	24	19	33	22	32	40						
Haiti																																		
Honduras	2 016	2 385	2 306	1 808	1 928	2 311	2 415	3 404	3 141	3 080	2 139	2 011	2 069	2 018	38	44	41	32	33	39	40	55	50	48	33	30	30	29						
Jamaica	83	61	93	81	84	90	90	90	75	60	81	69	53	61	3	2	4	3	3	4	4	3	3	2	3	3	2	2						
Mexico	8 164	9 726	9 220	8 495	15 440	11 473	11 968	11 676	15 103	11 555	12 933	11 214	11 987	11 874	9	11	10	9	16	12	12	12	12	15	11	13	11	12						
Montserrat	0																																	
Netherlands Antilles																																		
Nicaragua	1 714	1 615	1 568	1 722	1 670	1 648	1 564	1 471	1 510	1 320	1 404	1 327	1 253	1 285	38	35	34	36	34	33	31	29	29	25	26	23	23	23						
Panama	1 048	748	1 066	904	592	1 393	432	460	671	773	778	884	860	858	41	29	40	33	21	49	15	16	22	25	25	28	27	26						
Paraguay	985	873	748	894	859	850	1 041	900	915	1 004	1 166	1 199	1 260	1 441	22	19	16	16	17	17	20	17	17	17	21	21	21	24						
Peru	35 646	33 925	32 096	26 800	27 498	27 707	24 511	22 590	21 685	20 533	18 504	18 289	18 490	19 251	155	145	135	111	112	111	112	111	97	88	83	78	69	68						
Puerto Rico	122	139	128	110	126	106	106	81	74	78	62	65	60	69	3	4	3	3	3	3	3	3	2	2	2	2	2	2						
Saint Kitts & Nevis	2	2	4	2	2	4	2	2	0	0	1	0	0	0	1	5	5	9	5	9	4	4	0	0	2	2	2	2						
Saint Lucia																																		
St Vincent & Grenadines	11	0	5	3	2	3	4	9	3	0	6	5	6	8	10	0	4	3	2	3	3	3	8	3	0	5	4	5	7					
Suriname																																		
Trinidad & Tobago	55	7	58	52	82	87	115	152	152	60	77	71	95	149	4	1	5	4	6	7	8	8	9	8	8	11	14	14						
Turks & Caicos Islands																																		
Uruguay	388	381	349	426	423	374	382	348	340	308	373	373	355	305	12	12	11	13	13	11	12	10	10	9	11	11	11	9						
U.S. Virgin Islands																																		
USA	9 429	8 984	8 093	7 454	6 935	6 624	6 275	5 883	5 650	5 439	5 368	5 277	5 111	5 091	4	3	3	3	3	3	2	2	2	2	2	2	2	2						
Venezuela	2 849	2 738	3 056	3 195	3 234	3 450	3 670	3 525	3 476	3 444	3 862	3 776	3 653	3 547	13	13	13	14	14	14	15	15	14	14	14	15	14	13						
<b>AMR</b>	<b>98 265</b>	<b>137 645</b>	<b>138 932</b>	<b>136 987</b>	<b>142 556</b>	<b>139 253</b>	<b>135 153</b>	<b>131 294</b>	<b>129 944</b>	<b>127 575</b>	<b>125 815</b>	<b>126 945</b>	<b>124 810</b>	<b>125 178</b>	<b>13</b>	<b>18</b>	<b>18</b>	<b>17</b>	<b>18</b>	<b>17</b>	<b>18</b>	<b>16</b>	<b>16</b>	<b>15</b>	<b>15</b>	<b>14</b>	<b>14</b>	<b>14</b>						

Rates are per 100 000 population. The table includes updated information; data shown here may differ from those published in previous reports. Data can be downloaded from [www.who.int/tb](http://www.who.int/tb)

# Notes

## Canada

Treatment outcomes not available for all jurisdictions.

## Colombia

The numbers of TB cases tested for HIV and found HIV-positive were reported by 50% of health centres for 2005 and by 26% of health centres for 2006.

Treatment outcomes were not available for all regions.

## United States of America

In addition to the 51 reporting areas, the United States includes 8 territories (American Samoa, Federated States of Micronesia, Guam, Marshall Islands, Northern Mariana Islands, Puerto Rico, Republic of Palau, US Virgin Islands) that report separately to WHO. The data for these 8 territories are not included with the data for the USA.

Definitions of case types and outcomes do not exactly match those used by WHO.

One state out of 51 did not provide data on HIV testing (the area not providing data represents approximately 20% of TB cases in 2006 and 12% of population of the USA).