

**AFRICA**

**THE AMERICAS**

**EASTERN MEDITERRANEAN**

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**WESTERN PACIFIC**



# Africa

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

Algeria	Sofiane Alihalassa
Angola	Maria da Conceição Palma; Arlindo Tomás do Amaral
Benin	Martin Gninafon; Germain Monteiro Pio
Botswana	Vonai Teveredzi; Grace Kangwagye Nkubito
Burkina Faso	Sary Mathurin Dembélé; Michel Sawadogo
Burundi	Donatien Nkurunziza
Cameroon	Wang Hubert; Adolphe Nkou Bikoe
Cape Verde	Maria da Luz Lima
Central African Republic	Aguide Soumouk; Pierre Kanda
Chad	Mahamat Ali Acyl
Comoros	Aboubacar Mze Mbaba
Congo	Ongouo Hermann; Antoine Ngoulou
Côte d'Ivoire	Jacquemin Kouakou; Amoin Angennes Akaki
DR Congo	André Ndongosieme; Marie-Léopoldine Mbulula
Equatorial Guinea	
Eritrea	Kiflom Bahlebi; Mineab Sebhatu
Ethiopia	Bekele Chaka; Fekadesilase Mikru; Diriba Agegnehu
Gabon	Toung Mve Médard; Géneviève Angue Nguema
Gambia	Adama Jallow; Kejaw Saidykhan
Ghana	Frank Adae Bonsu
Guinea	Namory Keita; Fodé Cissé
Guinea-Bissau	Miguel Camará; Laia Jamanca
Kenya	Joseph Kimagut Sitienei; Hillary Kipruto
Lesotho	Job Ndile
Liberia	C. Lawuo Gwesa; Henry Dickson
Madagascar	Rarivoson Benjamin; Sylvestre Ranaivohajaina
Malawi	Felix Salaniponi; John kwanjana
Mali	Diallo Alimata Naco
Mauritania	Sidina Ould Mohamed Ahmed; Mohamed Ould Salem
Mauritius	F. Rujeedawa
Mozambique	Paula Samogudo; Angélica Salomão
Namibia	Rosalia Indongo; Amos Kutwa
Niger	Marafa Boulacar; Moumouni Kadi
Nigeria	Ben C. Nwobi; Amos F. Omoniyi
Rwanda	Michel Gasana; Evariste Gasana
Sao Tome & Principe	Aleixo Rodrigues de Sousa Pires
Senegal	
Seychelles	
Sierra Leone	Foday Dfafe; Saffa Kamara
South Africa	Lindiwe Mvusi; Carina Idema; Letta Seshoka
Swaziland	Themba Dlamini
Togo	Fantchè Awokou
Uganda	Francis Adatu-Engwau; Joseph Imoko
UR Tanzania	Saidi Egwaga; Emmanuel Nkiligi
Zambia	Nathan Kapata
Zimbabwe	Charles Sandy

**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 A3.1 Estimated burden of TB, Africa, 1990 and 2006

	Incidence, 1990				Prevalence, 1990				TB mortality, 1990				Incidence, 2006				Prevalence, 2006				TB mortality, 2006				HIV prevalence in incident TB cases (%)	
	All forms*		Smear-positive*		All forms*		Smear-positive*		All forms*		Smear-positive*		All forms*		Smear-positive*		All forms*		Smear-positive*		All forms*		Smear-positive*		number	rate
	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate	number	rate		
Algeria	9,379	37	4,220	17	11,067	44	541	2	18,699	56	8,405	25	33	≤1	18,652	56	47	≤1	679	2	5	≤1	0.5			
Angola	21,360	203	9,663	91	54,196	514	6,110	58	47,231	285	26,228	16	20,991	127	920	6	57,009	344	1,314	8	4,854	29	396	2	5.6	
Benin	3,963	77	1,749	34	7,255	140	779	15	7,878	90	1,173	13	3,428	39	411	5	11,857	135	586	7	1,584	18	473	5	15	
Botswana	3,286	240	1,345	98	4,026	294	463	34	10,230	551	5,504	298	4,063	218	1,926	104	8,430	454	2,752	148	1,666	91	1,120	60	54	
Burkina Faso	14,037	159	6,115	69	29,673	337	4,451	50	35,678	248	6,030	42	15,452	108	2,111	15	68,360	476	3,015	21	10,231	71	3,033	21	17	
Burundi	8,345	147	3,634	64	17,451	307	2,151	38	29,997	367	2,286	28	13,266	162	800	10	58,374	714	1,143	14	7,459	91	1,067	13	7.6	
Cameroon	9,371	77	4,105	34	23,593	193	2,640	22	34,829	192	5,360	29	15,137	83	1,876	10	43,033	237	2,660	15	5,225	29	1,473	8	15	
Cape Verde	575	162	259	73	1,468	413	163	46	873	368	—	—	6,393	76	—	—	1,679	324	—	—	189	36	—	—	—	
Central African Republic	4,146	138	1,813	60	10,102	336	1,216	40	14,713	345	2,617	61	6,359	149	916	21	22,532	528	1,309	31	3,394	80	1,100	26	18	
Chad	7,284	119	3,244	53	15,549	254	1,762	29	31,262	289	3,089	30	13,759	131	1,081	10	59,719	570	1,544	15	7,984	76	1,423	14	10	
Comoros	450	85	203	38	880	186	77	15	358	44	≤1	≤1	161	20	≤1	≤1	704	86	≤1	≤1	54	7	≤1	≤1	0.1	
Congo	3,900	161	1,693	70	6,089	251	868	36	14,869	403	1,680	46	6,523	177	598	16	20,872	566	840	23	2,946	80	548	15	11	
Côte d'Ivoire	21,467	168	9,346	73	42,207	330	5,110	40	79,515	420	10,829	57	34,699	183	3,790	20	141,218	747	5,414	29	19,941	105	4,919	26	14	
DR Congo	59,364	156	26,201	69	100,829	266	13,363	35	237,473	362	21,830	36	104,680	173	7,641	13	391,136	645	10,915	18	50,634	84	9,035	15	9.2	
Equatorial Guinea	34,710	102	15,454	55	59,617	176	65	19	1,268	256	145	29	566	112	51	10	2,000	404	73	15	267	54	60	12	11	
Eritrea	2,272	72	1,016	32	7,299	231	646	20	4,402	94	186	4	1,982	42	65	1	10,232	218	93	2	1,010	22	84	2	4.2	
Ethiopia	77,268	151	34,158	67	157,070	307	18,830	37	306,330	378	19,220	24	135,926	168	6,727	8	519,609	641	9,610	12	67,545	83	7,292	9	6.3	
Gabon	1,408	163	624	68	3,515	383	400	44	4,635	364	963	73	1,900	152	337	26	5,606	428	482	37	902	69	270	21	21	
Gambia	1,762	183	769	82	3,343	347	365	38	4,278	257	323	19	1,893	114	113	7	7,039	423	161	0	887	53	132	8	7.5	
Ghana	34,885	224	15,501	99	82,914	532	9,329	60	46,693	203	3,275	14	20,684	90	1,146	5	87,162	379	1,637	7	10,946	48	1,462	6	7.0	
Guinea	7,365	122	3,302	55	15,307	254	1,722	29	24,321	285	1,234	13	10,821	118	432	5	42,821	466	617	7	5,166	56	527	6	5.1	
Guinea-Bissau	1,533	156	709	70	4,098	403	394	38	3,602	219	193	12	1,602	97	68	4	5,145	313	97	6	655	40	64	4	5.4	
Kenya	27,255	116	10,545	45	31,150	133	6,685	29	140,548	384	73,122	200	55,934	153	25,593	70	122,126	334	36,561	100	26,278	72	16,735	46	52	
Lesotho	2,945	184	1,230	77	4,064	254	480	30	12,670	635	6,137	308	5,088	255	2,148	108	10,229	513	3,069	154	1,764	88	933	47	48	
Liberia	2,828	132	1,262	59	7,109	333	795	37	11,857	331	584	16	5,277	147	204	6	20,669	578	282	8	2,493	70	246	7	4.9	
Madagascar	21,201	176	9,540	79	43,915	365	4,630	38	47,469	248	198	1	21,341	111	69	≤1	79,424	415	99	≤1	8,708	45	79	≤1	0.4	
Malawi	24,371	258	9,319	99	30,356	321	7,076	75	51,172	377	35,781	264	19,449	143	12,523	92	43,668	322	17,891	132	15,040	111	12,204	90	70	
Mali	23,198	302	10,387	135	54,813	715	6,157	80	33,460	280	1,611	13	14,896	124	564	5	69,201	578	805	7	8,290	69	797	7	5	
Mauritania	4,377	225	1,969	101	11,200	576	1,218	63	9,626	316	245	8	4,307	142	86	3	18,437	606	123	4	2,156	71	109	4	2.5	
Mauritius	278	26	125	12	526	50	45	4	284	23	9	≤1	127	10	3	≤1	496	40	5	≤1	46	4	3	≤1	3.3	
Mozambique	23,955	177	10,468	77	40,323	288	4,825	36	92,835	443	27,731	132	39,002	186	9,706	46	130,750	624	13,865	66	24,490	117	11,324	54	30	
Namibia	4,342	306	1,875	132	9,552	674	1,069	75	15,689	767	6,022	294	6,468	316	2,108	103	13,466	658	3,011	147	1,956	96	845	41	38	
Niger	9,660	124	4,339	55	24,611	315	2,742	35	23,845	174	660	4	10,674	78	196	1	43,889	314	280	2	4,966	36	238	2	2.3	
Nigeria	117,235	124	52,046	55	262,853	276	30,064	32	449,558	311	42,988	30	198,002	137	15,046	10	889,666	615	21,484	15	117,141	81	20,836	14	10	
Rwanda	11,567	159	4,500	62	14,675	201	4,537	62	37,963	387	15,270	161	15,377	162	5,344	56	53,166	562	7,635	81	12,151	128	7,081	75	41	
Sao Tome & Principe	157	135	71	61	401	345	44	38	159	103	—	—	72	46	—	—	392	252	—	—	40	26	—	—	—	
Senegal	15,188	192	6,828	86	29,830	378	3,289	42	32,638	270	886	7	14,598	121	313	3	60,797	504	448	4	7,020	58	397	3	2.7	
Seychelles	31	43	14	20	81	113	6	9	28	33	—	—	13	15	—	—	48	56	—	—	4	5	—	—	—	
Sierra Leone	8,751	214	3,912	96	20,055	481	2,234	55	29,690	517	1,531	27	13,208	230	536	9	56,103	977	765	13	6,848	119	686	12	5.2	
South Africa	109,968	301	47,543	130	283,192	774	28,592	78	453,929	940	200,693	416	184,199	382	70,243	145	482,036	998	100,346	208	105,779	218	64,757	134	44	
Swaziland	2,310	267	978	113	5,750	665	659	76	13,097	155	7,060	623	5,188	458	2,471	218	12,287	1,084	3,530	311	3,157	278	2,088	184	54	
Togo	12,960	327	5,724	145	30,705	775	3,543	89	24,922	389	2,567	40	10,956	171	905	14	50,444	787	1,294	20	6,700	105	1,305	20	10	
Uganda	29,080	163	12,292	69	52,779	296	9,969	56	106,037	355	17,346	58	45,982	154	6,071	20	167,703	561	8,673	29	25,038	84	7,016	23	16	
UR Tanzania	45,408	178	19,573	77	68,826	270	9,088	36	123,140	312	21,663	55	53,248	135	5,758	19	180,936	459	10,826	27	26,014	66	7,504	19	18	
Zambia	24,152	297	10,000	123	51,687	636	8,105	100	64,632	553	23,875	204	26,697	228	8,356	71	66,383	568	11,938	102	11,875	102	5,342	46	37	
Zimbabwe	14,282	136	5,677	54	25,811	246	4,880	47	73,714	557	31,430	238	30,028	227	11,001	83	78,978	597	15,715	119	17,269	131	9,523	72	43	
<b>AFR</b>	<b>829,377</b>	<b>162</b>	<b>359,978</b>	<b>70</b>	<b>1,703,191</b>	<b>333</b>	<b>212,228</b>	<b>42</b>	<b>2,807,688</b>	<b>363</b>	<b>605,969</b>	<b>78</b>	<b>1,202,861</b>	<b>155</b>	<b>212,096</b>	<b>27</b>	<b>4,233,723</b>	<b>547</b>	<b>302,995</b>	<b>39</b>	<b>639,089</b>	<b>83</b>	<b>204,559</b>	<b>26</b>	<b>22</b>	

— indicates no estimate.  
 \* Incidence, prevalence and mortality estimates include patients with HIV. Estimates labelled "HIV+" are estimates of TB in HIV-positive people (all ages). Estimates for all years are re-calculated as new information becomes available and techniques are refined, so they may differ from those published previously. See Explanatory notes on page 187 for further details. Data can be downloaded from [www.who.int/tb](http://www.who.int/tb)



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

Country	TB cases reported from DOTS services										Estimated incidence and case detection rate					Proportions		
	DOTS coverage %		New pulmonary		New extra-pulmonary		Re-treatment cases		New pulm. lab. confirm.		All forms		Case detection rate		ss+ (% of pulm.)		Extrapulm. (% of new+re-treat)	
	number	rate	number	rate	number	rate	After failure	After default	Other re-treat.	number	number	%	new	ss+	ss+	ss+	ss+	
Algeria	100	21 143	63	8 538	26	1 927	10 219	559	26	94	18 689	8 405	110	102	82	40	48	3
Angola	92	38 436	238	15 915	96	9 706	2 238	3 659	0	0	47 231	20 991	59	76	62	40	6	36
Benin	100	3 619	41	2 943	34	2 076	322	148	59	56	7 878	3 428	44	86	93	81	9	7
Botswana	100	8 413	453	3 252	175	3 776	1 149	236	42	64	10 230	4 053	80	80	46	39	14	4
Burkina Faso	100	3 941	27	2 659	19	506	551	175	224	38	35 678	15 452	11	14	84	67	14	11
Burundi	100	6 114	75	3 119	38	950	1 900	40	22	22	29 987	13 266	20	24	77	51	31	3
Cameroon	100	24 316	134	13 811	76	6 569	3 035	901	88	475	34 829	15 137	67	91	68	57	12	6
Cape Verde	80	262	51	131	25	88	33	11	3	11	14 713	6 359	39	33	60	50	13	9
Central African Republic	70	5 929	139	4 365	102	687	654	0	223	66	31 262	13 759	69	69	86	74	11	9
Chad	100	112	14	67	8	22	20	3	3	1	31 262	13 759	69	69	86	74	11	9
Comoros	100	8 478	230	3 340	81	2 504	2 563	34	34	88	14 869	6 523	55	51	57	30	28	5
Cote d'Ivoire	100	20 746	110	12 867	68	2 675	4 411	0	793	277	79 515	34 699	25	37	83	62	21	6
DR Congo	100	95 686	158	63 488	105	10 093	18 213	3 872	997	992	237 473	104 680	39	61	86	66	19	6
Equatorial Guinea	86	3 026	64	680	14	1 484	782	0	80	5	4 402	1 962	67	35	31	22	26	6
Eritrea	100	122 198	151	36 674	45	40 234	43 255	2 035	286	513	306 330	135 926	39	27	48	30	35	2
Ethiopia	31	3 051	233	1 145	87	1 478	313	115	9	146	4 635	1 990	63	58	44	38	10	8
Gabon	100	1 795	108	1 209	73	467	102	0	17	2	4 278	1 893	42	64	72	67	6	5
Gambia	100	12 471	54	7 786	34	3 139	1 049	0	487	18	46 693	20 684	26	38	71	62	8	4
Guinea	100	8 787	96	5 903	64	898	1 689	287	126	163	24 321	10 821	35	55	87	67	19	6
Guinea-Bissau	87	2 137	130	1 030	63	955	19	0	133	8	3 602	1 602	56	64	52	48	1	7
Kenya	100	108 342	296	39 154	107	48 338	17 443	3 407	121	1 657	140 548	55 934	75	70	45	36	16	9
Lesotho	100	12 073	605	4 024	202	4 934	2 477	638	86	147	12 670	5 088	90	79	45	33	21	13
Liberia	100	4 447	124	2 906	81	646	829	0	66	38	11 857	5 277	37	55	82	65	19	3
Madagascar	100	21 966	115	15 613	81	1 175	4 011	1 167	356	195	47 469	21 341	44	73	93	71	18	8
Malawi	100	25 054	185	8 166	60	10 608	5 268	1 012	1 957	156	51 172	19 449	47	42	43	33	21	11
Mali	100	4 989	42	3 802	32	388	580	0	221	150	33 460	14 896	14	26	91	76	12	9
Mauritania	82	2 694	88	1 486	49	480	536	0	192	24	9 626	4 307	26	34	76	55	20	10
Mauritius	100	114	9	85	7	15	15	0	0	0	284	127	39	67	89	75	13	3
Mozambique	100	35 257	168	18 275	87	10 618	4 929	0	1 435	170	92 835	39 002	36	47	63	52	14	5
Namibia	100	14 673	717	5 386	262	4 178	2 450	1 674	1 015	207	15 689	6 458	87	83	96	37	17	13
Niger	52	8 474	62	5 279	38	1 443	1 275	477	107	174	23 845	10 674	34	49	79	62	15	9
Nigeria	75	70 734	49	39 903	28	25 782	2 975	0	2 074	787	449 558	198 002	15	20	61	56	4	7
Rwanda	100	8 117	86	4 220	45	1 603	1 766	136	392	123	37 563	15 377	21	27	72	52	22	7
Sao Tome & Principe	0										159	72						
Senegal											32 638	14 598						
Seychelles											28	13						
Sierra Leone	100	8 041	140	4 629	81	2 802	480	0	130	51	29 690	13 208	27	35	62	58	6	4
South Africa	100	303 114	628	131 059	272	93 948	47 849	0	30 818	2 639	453 929	184 199	60	71	58	43	16	20
Swaziland	100	8 278	730	2 539	224	3 842	1 584	313	140	37	13 097	5 188	61	49	40	31	19	6
Togo	100	2 819	44	2 131	33	279	319	0	90	37	24 922	10 956	11	19	88	76	11	7
Uganda	100	40 782	136	20 364	68	14 940	4 027	1 451	797	68	106 037	45 982	37	44	58	50	10	5
UR Tanzania	100	59 282	150	24 724	63	20 120	12 921	1 817	120	257	123 100	53 248	47	46	55	42	21	7
Zambia	100	47 790	409	14 025	120	22 059	9 641	1 865	97	403	64 632	28 697	71	53	39	29	21	10
Zimbabwe	100	44 328	335	12 718	96	23 775	6 559	1 276	3 446	12 718	73 714	30 028	58	42	35	29	15	10
<b>AFR</b>	<b>91</b>	<b>1 223 008</b>	<b>158</b>	<b>549 420</b>	<b>71</b>	<b>379 631</b>	<b>220 151</b>	<b>1 860</b>	<b>71 946</b>	<b>7 827</b>	<b>2 807 688</b>	<b>1 202 861</b>	<b>41</b>	<b>46</b>	<b>59</b>	<b>45</b>	<b>18</b>	<b>11</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, Africa, 2005–2006

	Laboratory services, 2006										Collaborative TB/HIV activities										Management of MDR-TB, 2006			
	number of labs working with NTP					smear labs included in EQA					2005					2006					in new cases			
	smear	culture	DST	NTP	in EQA	TB pts tested for HIV	TB pts HIV-positive	TB pts CPT	TB pts ART	HIV+ TB pts ART	TB pts tested for HIV	TB pts HIV-positive	TB pts CPT	TB pts ART	HIV+ TB pts ART	Lab-confirmed MDR	DST	MDR	Re-treatment	MDR				
Algeria	206	21	3	10	10	796	110	3 318	494	337	213	21	81	3	66	17								
Angola	143	143	143	47	47	2 291	1 829	4 583	3 260															
Botswana	51	2	1	39	39	1 213	559	1 412	718	472	183	6	0	0	0	0	0	0	0	0				
Burkina Faso	107	107	107	137	137	0	0	8 639	3 363															
Burundi	137	1	0	137	137	298	14	270	8	8														
Cameroon	198	1	1	198	198	112	2	116	2	2	0	0	0	0	0	0	0	0	0	0				
Cape Verde	20	0	0	1	1	4 079	1 551	5 810	2 130	1 185	984	1	1	75	1									
Central African Republic	59	1	1	40	40	1 885	386	1 314	188	170	102													
Chad	3	0	0	3	3	3 211	1 321	3 255	1 295	1 108	354													
Comoros	3	0	0	3	3	185	185	550	142	645	23	1	1	29	0									
Cote d'Ivoire	82	1	1	82	82	844	340	2 136	711	485	99	25	104	2	33	17								
DR Congo	1 069	1	1	1 069	1 069	200	110	151	85	85	43	0	0	0	0	0	0	0	0	0				
Equatorial Guinea	61	0	0	0	0	15 658	8 954	69 290	36 049	50 916	15 447	89	0	0	1 049	89								
Ethiopia	713	1	1	713	713	1 759	16	2 508	2 222	1 248	191													
Gabon	14	0	0	0	0	12 243	8 447	17 263	12 084	11 244	6 863	2	53	0	35	6								
Gambia	19	1	1	16	16	10	0	478	70	4	4	0	0	0	0	0	0	0	0	0				
Ghana	211	3	2	150	150	115	2	100	5	4	4	7	61	3	12	4								
Guinea	60	1	1	51	51	2 547	1 465	8 631	6 079	1 058	2 789	129	85	0	4	2								
Guinea-Bissau	44	1	1	44	44	2 547	1 465	8 631	6 079	1 058	2 789	129	85	0	4	2								
Kenya	770	2	2	400	400	6 897	1 241	7 522	1 558															
Lesotho	17	1	1	17	17	5 003	2 276	6 300	2 561	1 124	789													
Liberia	100	0	0	0	0	152	5	153	3	0	0													
Madagascar	227	1	1	6	6	67 988	35 299	110 235	55 249	57 053	23 344	6 716												
Malawi	94	1	1	1	1	0	0	1 847	1 476	1 298	287													
Mali	73	1	1	54	54	0	0	0	0	0	0													
Mauritania	1	1	1	1	1	0	0	0	0	0	0													
Mauritius	1	1	1	1	1	0	0	0	0	0	0													
Mozambique	250	1	1	11	11	0	0	0	0	0	0													
Namibia	34	1	1	34	34	0	0	0	0	0	0													
Niger	76	0	0	0	0	0	0	0	0	0	0													
Nigeria	694	0	0	416	416	0	0	0	0	0	0													
Rwanda	173	1	1	170	170	0	0	0	0	0	0													
Sao Tome & Principe	1	1	1	0	0	0	0	0	0	0	0													
Senegal	1	1	1	0	0	0	0	0	0	0	0													
Seychelles	60	0	0	60	60	0	0	0	0	0	0													
Sierra Leone	143	13	1	143	143	0	0	0	0	0	0													
South Africa	13	1	1	13	13	0	0	0	0	0	0													
Swaziland	13	1	1	13	13	0	0	0	0	0	0													
Togo	726	3	2	515	515	10 555	7 523	10 826	6 375	1 481	501													
Uganda	690	3	1	690	690	1 613	841	7 140	3 604	2 050	935	13	369	4	171	9								
UR Tanzania	156	3	1	156	156	1 082	614	11 545	7 177	2 194	2 723	50	0	0	0	0								
Zambia	180	1	1	10	10	0	0	0	0	0	0													
Zimbabwe	180	1	1	10	10	0	0	0	0	0	0													
<b>AFR</b>	<b>7 726</b>	<b>212</b>	<b>181</b>	<b>4 618</b>	<b>4 618</b>	<b>141 006</b>	<b>73 385</b>	<b>287 945</b>	<b>150 739</b>	<b>134 270</b>	<b>55 894</b>	<b>7 062</b>	<b>815</b>	<b>74</b>	<b>2 498</b>	<b>202</b>								

ART, indicates antiretroviral therapy; CPT, co-trimoxazole preventive therapy; EQA, external quality assurance; HIV+, HIV-positive; pts, 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.wtc.mtb](http://www.wtc.mtb)

Table A3.5 Treatment outcomes, Africa, 2005 cohort

	New smear-positive cases, DOTS											New smear-positive cases, non-DOTS											Smear-positive re-treatment cases, DOTS													
	Number of cases notified			% of cohort			Trans-ferred			Success			Number of cases notified			% of cohort			Trans-ferred			Success			Number			% of cohort			Trans-ferred			Success		
	Notified	Registered	%	Completed	Failed	%	Not	Trans-ferred	%	Success	Notified	Registered	%	Completed	Failed	%	Not	Trans-ferred	%	Success	Number	Completed	Failed	%	Number	Completed	Failed	%	Number	Completed	Failed	%				
Algeria	8 654	8 379	97	74	13	2	0	3	4	4	87	4 386	2 435	56	38	36	2	14	7	3	0	74	713	48	24	2	1	6	2	17	72					
Angola	16 024	17 678	110	46	26	3	2	20	3	0	72													1 613	23	24	5	17	26	4	0	47				
Benin	2 739	2 766	101	74	33	7	2	3	1	0	87													341	60	21	10	3	6	1	0	81				
Botswana	3 170	3 335	105	37	33	7	1	8	9	6	70													219	33	28	11	5	12	11	0	61				
Burkina Faso	2 294	2 290	100	66	5	14	7	6	2	1	0	71												272	71	4	6	10	6	4	0	75				
Burundi	3 262	3 424	105	52	27	4	0	17	1	0	79																									
Cameroon	13 001	13 169	101	66	7	6	1	14	3	2	74													1 611	49	7	6	3	16	4	16	55				
Cape Verde	135	135	100	56	8	3	2	19	4	7	64													34	41	15	0	24	3	18	56					
Central African Republic	2 153	3 090	144	37	28	6	2	8	19	0	65	0	127	54	29	4	9	4	0	0	0	83	291	53	30	9	0	8	1	0	82					
Chad	79	70	89	91	0	3	4	0	1	0	91													5	100	0	0	0	0	0	0	100				
Comoros	3 640	4 121	113	24	4	0	1	13	3	55	28													477	12	2	0	0	3	5	78	14				
Cote d'Ivoire	11 300	11 300	100	64	12	8	2	9	6	0	75	1 196	1 196	100	53	10	8	3	17	4	5	63	906	44	15	7	7	12	2	12	59					
DR Congo	65 040	65 066	100	80	5	6	1	4	2	1	85													5 448	71	4	10	4	6	3	2	74				
Equatorial Guinea																																				
Eritrea	687	688	100	83	5	7	1	2	1	0	88													3 116	41	15	9	2	5	4	24	96				
Ethiopia	38 525	39 430	102	64	14	5	1	4	5	7	78													150	18	12	5	3	60	3	0	30				
Gabon	1 042	1 165	112	35	12	10	1	42	1	0	46																									
Gambia	1 127	1 127	100	81	6	7	1	3	1	1	87																									
Ghana	7 505	7 584	101	68	5	9	2	11	4	1	73													540	40	8	6	3	11	2	30	48				
Guinea	5 479	5 811	106	65	7	6	2	10	10	0	72													458	45	16	10	7	13	11	0	60				
Guinea-Bissau	1 132	1 167	103	51	18	12	1	11	7	0	69													147	44	33	8	0	7	7	0	77				
Kenya	40 389	40 436	100	71	11	5	0	8	5	0	82													3 794	68	9	10	1	7	5	0	77				
Lesotho	4 280	5 542	129	73	8	1	4	6	8	73														597	0	71	11	2	2	6	8	71				
Liberia	2 167	2 167	100	60	16	3	0	12	8	0	76													57	75	9	2	0	9	5	0	84				
Madagascar	13 056	15 298	117	67	7	6	1	13	5	0	74													1 825	65	7	7	2	12	6	0	72				
Malawi	8 443	8 443	100	72	2	15	1	3	2	6	73													1 093	74	1	19	1	3	2	2	75				
Mali	3 523	3 530	100	69	6	11	4	7	3	0	75													379	67	6	10	5	10	3	0	73				
Mauritania	1 155	1 761	152	84	11	2	1	19	12	13	55																									
Mauritius	110	110	100	86	1	3	0	6	5	0	86													5	60	20	0	0	20	0	0	80				
Mozambique	17 877	17 877	100	78	1	12	1	5	2	1	79													1 855	69	1	15	2	10	3	0	70				
Namibia	5 222	5 222	100	59	16	7	2	10	6	0	75													2 009	24	29	11	3	13	6	15	52				
Niger	5 050	5 050	100	49	25	5	2	14	5	0	74																									
Nigeria	35 048	35 080	100	50	25	9	4	11	0	0	75													3 662	48	18	2	11	20	0	1	66				
Rwanda	4 166	4 175	100	73	10	6	2	3	5	1	83	49	49	100	98	0	2	0	0	0	0	0	98	506	56	9	15	3	4	10	3	65				
Sao Tome & Principe	6 722																																			
Senegal	8																																			
Seychelles	4 370	100	77	8	6	1	6	2	0	0	86													328	68	7	6	3	15	1	0	75				
Sierra Leone	119 906	128 393	107	58	13	7	2	10	6	4	71	5 554	6 389	115	52	14	9	1	11	4	9	66	63 588	29	29	11	2	16	6	6	58					
South Africa	2 187	2 187	100	22	20	6	2	5	21	24	42													1 113	7	21	11	3	5	13	41	28				
Swaziland	1 798	1 796	100	66	5	12	4	11	2	0	71													128	73	2	14	4	7	0	0	75				
Togo	20 559	20 559	100	32	41	6	0	16	5	0	73																									
Uganda	25 264	25 264	100	79	4	9	0	4	4	0	82													5 067	37	39	13	1	4	5	1	77				
U.R. Tanzania	14 857	14 857	100	76	8	8	1	2	5	0	84													5 496	24	60	9	1	3	4	0	83				
Zambia	13 155	12 860	98	59	9	12	2	7	12	0	68													4 667	13	46	16	0	13	11	0	60				
Zimbabwe																																				
<b>AFR</b>	<b>538 816</b>	<b>546 832</b>	<b>101</b>	<b>63</b>	<b>13</b>	<b>7</b>	<b>1</b>	<b>9</b>	<b>4</b>	<b>3</b>	<b>76</b>	<b>11 185</b>	<b>10 196</b>	<b>91</b>	<b>49</b>	<b>19</b>	<b>7</b>	<b>4</b>	<b>11</b>	<b>4</b>	<b>6</b>	<b>68</b>	<b>112 510</b>	<b>35</b>	<b>27</b>	<b>11</b>	<b>3</b>	<b>13</b>	<b>6</b>	<b>6</b>	<b>62</b>					

Not eval. indicates not evaluated (percentage of registered cases for which outcomes were not recorded); success, sum of cured and completed; cases registered, 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 less than the sum of outcomes, in which case the sum of outcomes is used. If the number of cases registered is not reported, then the number of cases notified in 2005 is used, or the sum of outcomes if the latter is greater. Data can be downloaded from www.who.int/tb

Table A3.6 Re-treatment outcomes, Africa, 2005 cohort

	Relapse, DOTS												After failure, DOTS												After default, DOTS											
	% of cohort						% of cohort						% of cohort						% of cohort																	
	Number registered	Completed	Died	Failed	Defaulted	Transferred	Not evaluated	Success	Number registered	Completed	Died	Failed	Defaulted	Transferred	Not evaluated	Success	Number registered	Completed	Died	Failed	Defaulted	Transferred	Not evaluated	Success												
Algeria	548	51	25	2	1	1	2	18	76	46	39	13	2	4	0	41	52	119	39	24	1	1	27	3	6	63										
Angola										1 613	23	24	5	17	26	4	0	47																		
Benin	154	72	15	7	1	4	1	0	87	89	57	22	8	4	6	2	0	80	98	44	28	15	3	9	1	0	71									
Botswana																																				
Burkina Faso	129	77	4	2	12	3	2	0	81	110	65	5	12	6	5	7	0	70	33	64	6	3	9	18	0	0	70									
Burundi																																				
Cameroun	1 009	51	7	7	2	15	3	15	58	121	52	5	7	10	20	7	0	57	481	43	7	5	3	17	4	21	50									
Cape Verde	34	41	15	0	0	24	3	18	56																											
Central African Republic	163	55	31	7	0	6	1	0	85	39	46	31	10	0	0	13	77	89	53	27	10	0	0	2	8	80										
Chad																																				
Comoros	2	100	0	0	0	0	0	100	100	3	100	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0										
Congo	350	13	1	0	0	4	5	76	14	27	15	19	0	0	0	67	33	100	7	0	0	0	0	0	0	93	7									
Côte d'Ivoire																																				
DR Congo	3 543	75	3	10	3	4	3	2	78	884	64	4	11	5	11	3	3	68	1 021	63	4	10	8	8	4	2	67									
Equatorial Guinea																																				
Eritrea																																				
Ethiopia																																				
Gabon	150	18	12	5	3	60	3	0	30																											
Gambia																																				
Ghana	540	40	8	6	3	11	2	30	48																											
Guinea	231	52	13	11	4	11	10	0	65	101	39	17	10	14	10	11	0	55	126	37	19	7	6	18	13	0	56									
Guinea-Bissau	130	46	32	8	0	8	6	0	78	1	0	0	0	0	0	100	0	0	16	25	50	13	0	0	0	13	75									
Kenya																																				
Lesotho	597	71	11	2	2	6	8	71	71	10	90	10							14	79	7		14			0	86									
Liberia	33	70	9	3	9	9	0	79																												
Madagascar																																				
Malawi	1 093	74	1	19	1	3	2	2	75																											
Mali	195	70	5	10	4	8	2	0	75	94	71	4	9	5	10	1	0	76	90	56	8	10	8	13	6	0	63									
Mauritania																																				
Mauritius	3	67				33		0	67																											
Mozambique	1 376	73	1	15	2	8	2	0	74	178	57	1	17	8	12	3	1	58	2	50	50	1	15	2	21	3	1	59								
Namibia	1 082	45	17	13	5	14	6	0	61																											
Niger																																				
Nigeria																																				
Rwanda	341	57	12	14	3	2	10	1	69	59	54	0	2	3	12	29	54	50	48	6	20	6	14	4	2	54										
Sao Tome & Principe																																				
Senegal																																				
Seychelles																																				
Sierra Leone	136	68	9	7	4	12	0	0	77	57	70	4	7	5	12	2	0	74	135	67	6	5	0	2	19	73										
South Africa	30 099	49	15	10	2	13	6	5	64	2 213	40	13	12	9	13	7	6	53	7 540	36	13	10	2	28	6	5	49									
Swaziland	311	17	15	14	5	4	18	27	32	97	10	12	14	14	2	4	42	23	62	19	15	11	3	8	3	40	34									
Togo	128	73	2	14	4	7	0	0	75																											
Uganda																																				
UR Tanzania	1 864	76	3	11	0	4	5	0	79	140	61	1	14	5	10	9	0	62	275	60	12	14	2	9	3	0	72									
Zambia	1 805	66	19	6	2	3	4	0	85	215	55	29	7	1	3	5	0	84	0	0	0	0	0	0	0	0	0									
Zimbabwe	1 187	53	7	18	1	9	12	0	60																											
<b>AFR</b>	<b>47 213</b>	<b>53</b>	<b>13</b>	<b>10</b>	<b>2</b>	<b>11</b>	<b>5</b>	<b>5</b>	<b>67</b>	<b>6 097</b>	<b>42</b>	<b>14</b>	<b>9</b>	<b>10</b>	<b>15</b>	<b>5</b>	<b>4</b>	<b>56</b>	<b>10 552</b>	<b>41</b>	<b>12</b>	<b>10</b>	<b>3</b>	<b>23</b>	<b>5</b>	<b>6</b>	<b>53</b>									

Not eval. indicates not evaluated (percentage of registered cases for which outcomes were not recorded); success, sum of cured and completed; cases registered, 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](http://www.who.int/tb)

Table A3.7 DOTS treatment success and case detection rates, Africa, 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	2006	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006					
Algeria		86				87	87	84	89	90	91	87							132	116	115	115	107	107	102					
Angola				15	68	77	77	68	66	74	68	68	72						60	38	50	73	101	101	87	80	76			
Benin	76	73	72	73	77	77	79	80	81	83	87			83	82	82	81	86	86	86	70	83	81	82	83	86				
Botswana	72	67	70	70	47	71	77	78	71	77	65	70		73	85	85	87	71	75	70	75	68	70	74	80					
Burkina Faso		25	29	61	59	61	60	65	64	66	67	71		11	17	15	17	16	17	16	16	16	16	17	17					
Burundi	44	45		67	74	74	80	80	79	79	78	79		19	24	29	18	35	30	25	26	26	25	24						
Cameroon				80	75	75	77	62	70					4			10	19	31	37	54	74	75	87	91					
Cape Verde																														
Central African Republic	37	47					57	61		59	91	65		35	58	14		34	8	45	5	3	34	69						
Chad	94	90		85	64		93	93	92	96	78	69		54	57		54	49	49	53	42	28	38	48	42					
Comoros	69	69		61	69	66	71	69	63	28				69	69		52	80	80	86	86	64	56	51						
Cote d'Ivoire	17	68	56	61	62	63	73	67	72	71	75			50	60	46	45	41	32	8	32	33	33	37						
DR Congo	71	80	48	64	70	69	78	77	78	83	85	83		41	47	44	54	51	48	50	49	55	62	63	61					
Equatorial Guinea	89	89	77	82	81									85	74	73	83													
Eritrea				83	73	44	76	80	82	85	85	88		15	20	22	23	24	30	30	30	31	31	29	27					
Ethiopia	74	61	73	72	74	76	80	76	76	70	79	78		15	20	22	23	24	30	30	30	31	31	29	27					
Gabon							49	47	34	40	46			74	67	69	72													
Gambia	74	76	80	70			71	74	75	86	87			74	67	69	72													
Ghana	54	51	48	59	55	50	56	60	66	72	73			15	14	31	32	30	37	40	40	39	36	37	38					
Guinea	78	78	75	74	73	74	68	74	72	75	72	72		44	52	50	53	52	54	53	52	51	53	54	55					
Guinea-Bissau							35																							
Kenya	73	75	77	65	77	78	80	80	79	80	80	82		57	58	54	59	58	51	59	61	64	66	68	70					
Lesotho	56	47	71	63			69	71	52	70	69	73		59	69	81	73	72	72	72	67	73	84	84	79					
Liberia							74	80	76	76	73	70	76		31		40		26	21	42	27	49	42	55					
Madagascar	51	55		64			70	69	74	71	71	74		52	65	67		66	65	70	70	70	64	73						
Malawi	22	71	68	71	69	71	73	70	72	73	71	73		42	44	47	51	46	44	44	40	39	43	43	42					
Maldives	68	59	65	62	70	68		50	50	66	71	75		16	18	21	20	19	17		20	22	22	24	26					
Mauritania							91	87	93	93	92	87	89		89	85	85	96	90	67	67	78	92	87	67					
Mauritius	67	39	54	67			71	75	78	78	76	77	79		57	52	50	49	48	45	43	43	44	46	47					
Mozambique				66	58	61	51	56	63	66	63	68	75		21	80	82	84	80	77	80	77	86	79	81	83				
Namibia				57	66	60	65	64	58	70	61	74																		
Niger	65	49	32	73	73	73	75	79	79	78	73	75		11	11	10	11	12	12	12	11	15	17	18	20					
Nigeria				61	68	72	67	61		58	67	77	83		35	35	41	54	45	33	26	29	32	28	27	27				
Rwanda																														
Sao Tome & Principe																														
Senegal	38	44	44	55	48	58	52	53	66	70	74			62	65	57	54	48	53	53	48	52	48	48						
Seychelles	89	100	100	100	90	82	67	45	100	92				82	97	67	67	83	90	68	38	100	62	62	62					
Sierra Leone	75	69	74	79	75	77	80	81	83	82	86			28	40	39	36	33	33	33	32	31	34	36	35					
South Africa				69	73	74	60	66	65	68	67	70	71																	
Swaziland	45	60	65	66	69	76		55	68	47	42	50	42																	
Togo				33	40	62	61	63	56	60	68	70	73		13	13		11	11	11	11	4	13	16	17	19				
Uganda				80	73	76	77	76	78	81	80	81	81		57	56	53	54	52	49	44	44	44	45	44					
UK Tanzania																														
Zambia																														
Zimbabwe																														
<b>AFR</b>	<b>59</b>	<b>62</b>	<b>57</b>	<b>63</b>	<b>70</b>	<b>69</b>	<b>72</b>	<b>71</b>	<b>73</b>	<b>73</b>	<b>74</b>	<b>76</b>		<b>23</b>	<b>25</b>	<b>29</b>	<b>34</b>	<b>35</b>	<b>35</b>	<b>36</b>	<b>42</b>	<b>44</b>	<b>46</b>	<b>45</b>	<b>46</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/dot](http://www.who.int/dot)





Table A3.10 Number of TB cases notified, Africa, 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				
Algeria	2 702	13 916	13 681	13 133	13 832	12 917	11 212	11 212	11 325	11 039	11 607	11 332	11 428	13 345	13 345	13 529	16 522	15 324	16 872	18 572	18 250	18 934	19 070	19 809	21 336	21 143	21 414	21 336			
Angola	10 117	7 501	7 911	6 625	10 153	8 653	8 510	8 184	9 587	10 271	11 134	11 174	11 272	8 269	7 157	5 143	14 235	15 066	14 296	14 235	16 062	21 713	20 996	36 079	35 437	37 175	50 419	50 419			
Benin	1 835	1 862	1 793	1 804	1 913	2 041	2 027	1 901	2 027	1 941	2 084	2 162	2 420	2 340	2 119	2 332	2 284	2 255	2 316	2 852	2 706	2 830	2 932	3 116	3 270	3 270	3 619	3 619			
Burkina Faso	2 662	2 665	2 705	2 683	3 101	2 706	2 627	3 173	2 740	2 532	2 938	3 274	4 179	4 654	4 756	5 665	6 536	6 536	7 960	8 647	9 292	9 618	10 204	9 862	10 131	10 058	8 413	8 413			
Burkina Faso	2 577	2 391	2 265	3 061	877	4 547	1 018	1 477	949	1 616	1 488	1 488	1 443	1 443	861	2 572	1 814	1 643	2 074	2 310	2 310	2 406	2 376	2 620	2 878	3 484	3 941	3 941			
Burundi	789	643	951	1 053	1 904	2 317	2 569	2 739	3 745	4 608	4 575	4 883	4 464	4 677	3 640	3 326	3 796	5 335	6 546	6 965	6 478	6 371	6 871	6 871	7 164	6 585	6 114	6 114			
Cameroon	2 434	2 236	3 765	3 338	3 333	2 138	3 878	4 992	5 521	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824	6 824		
Cape Verde	516	344	393	230	285	259	276	210	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221		
Central African Republic	651	758	1 475	1 686	468	520	779	489	814	614	2 124	2 045																			
Chad	220	286	127	1 977	1 430	1 486	1 285	1 086	2 977	2 572	2 591	2 912	2 684	2 871	3 303	3 186	1 936	2 180	2 784	4 710											
Comoros																															
Congo	7 412	4 124	3 716	4 156	2 776	2 648	3 120	3 473	3 878	4 363	5 911	6 181	11 719	10 976	14 000	11 988	14 000	13 802	14 841	15 056	12 943	16 533	16 077	17 739	20 084	19 681	20 746	20 746	20 746		
Côte d'Ivoire	4 947	4 418	5 000	6 000	6 062	5 729	6 062	6 422	6 556	6 982	7 841	8 021	9 133	9 563	10 973	11 988	14 000	13 802	14 841	15 056	12 943	16 533	16 077	17 739	20 084	19 681	20 746	20 746	20 746		
DR Congo	5 122	3 051	9 905	13 021	20 415	26 082	27 665	27 096	30 272	31 321	33 782	37 660	38 477	42 819	45 999	44 783	58 917	59 531	60 627	66 748	70 625	84 687	93 336	97 075	95 666	95 666	95 666	95 666	95 666		
Equatorial Guinea																															
Eritrea	40 096	42 423	52 403	56 824	65 045	71 731	80 846	85 867	95 621	80 795	88 634	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	
Ethiopia	865	796	761	752	654	655	769	864	721	912	917	906	928	972	1 034	1 115	951	1 434	1 380	1 898											
Gabon	239	36																													
Gambia	5 207	4 041	4 345	2 651	1 935	3 235	3 925	5 877	5 297	6 017	6 407	7 136	7 044	8 569	17 004	8 636	10 449	10 749	11 352	10 986	10 933	11 923	11 891	11 827	12 124	12 471	17 95	17 95	17 95		
Ghana	1 884	1 469	832	1 203	1 317	1 128	1 214	1 214	1 740	1 869	1 988	2 267	2 941	3 167	3 300	3 553	4 357	4 439	4 768	5 171	5 440	5 874	6 199	6 570	7 423	6 863	8 787	8 787	8 787		
Guinea	645	465	205	376	388	530	1 310	752	778	1 362	1 163	1 246	1 059	1 558	1 647	1 613	1 678	1 445	846	1 164	1 273	1 566	1 647	1 835	1 774	2 137	2 137	2 137	2 137	2 137	
Guinea-Bissau	11 049	10 027	11 966	10 460	10 022	10 515	10 957	12 592	11 798	12 320	14 599	20 451	22 930	28 142	34 980	38 738	48 936	57 266	64 159	73 017	80 183	91 522	100 573	102 860	108 342	108 342	108 342	108 342	108 342		
Kenya	4 082	3 830	4 932	3 443	2 923	2 927	2 221	2 225	2 346	2 463	2 525	2 994	3 327	3 384	4 334	5 181	5 598	6 447	7 806	8 552	9 746	10 111	12 007	11 404	10 800	12 073	12 073	12 073	12 073	12 073	
Lesotho	774	1 002	835	885	425	232	384	894																							
Liberia	9 082	7 464	3 573	3 588	8 673	3 220	3 717	4 007	4 393	5 417	6 261	6 015	8 126	9 855	10 671	12 178	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	
Madagascar	4 758	5 033	4 411	4 707	4 404	5 335	6 260	7 561	8 359	9 431	12 395	14 743	14 237	17 105	19 698	19 155	20 630	20 676	22 674	24 396	23 604	26 094	24 595	25 841	27 030	25 491	25 054	25 054	25 054	25 054	
Malawi	839	933	187	532	1 872	1 621	1 851	2 534	2 578	1 626	2 933	2 631	3 113	3 204	3 075	3 087	3 655	5 022	4 142	4 466	4 216	4 466	4 466	4 466	4 466	4 466	4 466	4 466	4 466	4 466	4 466
Mali	7 576	9 427	2 327	2 333	3 977	4 406	2 257	3 722	3 928	4 040	5 284	3 064	4 316	3 996	3 949	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849
Mauritania	132	157	121	152	118	111	119	117	114	129	119	134	130	159	149	131	116	121	120	154	160	123	139	137	137	125	114	114	114	114	114
Mauritius	7 457	6 984	5 787	5 937	5 204	6 645	8 263	10 956	13 563	15 958	16 609	16 609	15 035	16 588	17 158	17 882	18 443	18 443	18 443	18 443	18 443	18 443	18 443	18 443	18 443	18 443	18 443	18 443	18 443	18 443	18 443
Mozambique	717	2 871	754	673	665	698	570	556	631	608	520																				
Namibia	9 877	10 838	10 949	10 212	11 439	14 937	14 071	19 723	25 700	13 342	20 122	19 626	14 802	11 601	8 449	13 423	15 020	16 660	20 249	24 157	25 821	45 842	38 628	44 784	57 246	62 598	70 734	70 734	70 734	70 734	70 734
Niger	1 495	1 386	1 364	1 419	1 327	2 460	3 287	4 145	4 741	6 387	3 200																				
Nigeria	131	37	40	59	49	40	8	55	13																						
Rwanda	2 014	2 573	1 612	2 417																											
Sao Tome & Principe	16	0	16	16	10	10	24	14	10	6	41																				
Senegal	750	847	889	293	816	865	358	130	120	632	1 466	1 665	2 691	2 564	1 955	3 241	3 160	3 270	3 160	3 270	3 160	3 270	3 160	3 270	3 160	3 270	3 160	3 160	3 160	3 160	3 160
Seychelles	55 310	59 943	64 115	62 556	62 717	59 349	55 013	57 406	61 486	68 075	80 400	77 652	82 539	89 786	90 292	73 917	109 328	125 913	142 281	148 761	151 239	148 257	215 120	227 320	267 290	270 178	303 114	303 114	303 114	303 114	303 114
Sierra Leone	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098	1 098
South Africa	208	126	204	174	343	745	596	1 184	1 071	940	1 324	1 243	1 223	1 005	1 137	1															

Table A3.11 Case notification rates, Africa, 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
Algeria	14	69	66	61	63	57	48	47	45	46	44	43	43	49	48	48	53	57	52	55	61	59	60	62	61	65	63
Angola	129	93	94	76	113	93	98	87	82	94	98	103	104	71	60	42	122	116	108	105	115	152	204	238	227	231	305
Benin	49	49	44	45	46	48	41	42	39	40	40	43	40	35	38	36	34	34	36	34	37	37	37	37	38	39	41
Botswana	267	253	254	262	273	231	217	254	213	191	215	233	289	313	311	362	414	445	476	508	537	549	575	549	558	546	453
Burkina Faso	38	34	32	42	12	59	13	17	11	19	17	16	15	9	25	17	15	19	20	19	20	19	20	21	21	25	27
Burundi	19	15	22	23	40	47	51	52	70	63	60	64	75	77	62	53	60	64	102	97	95	90	94	95	84	75	
Cameroun	27	24	39	35	33	32	20	35	43	48	48	54	52	53	23	21	27	33	49	33	70	66	94	101	121	134	
Cape Verde	178	117	131	75	91	81	86	81	60	62	71	66															
Central African Republic	28	32	60	66	18	19	28	18	28	2	71	66															
Chad	5	6	3	40	28	28	24	20	52	43	42	46	41	43	48	45	26	29	35	58							
Comoros																											
Congo	41	65	194	210	136	126	145	156	170	185	24	25	46	75	110	129	156	116	127	161	288	296	294	226	276	273	230
Côte d'Ivoire	50	50	55	62	60	55	55	56	55	57	61	61	67	68	96	80	85	87	91	90	76	95	91	99	110	106	110
DR Congo	18	11	33	43	65	80	83	79	85	85	56	86	92	86	87	94	99	94	121	120	120	128	132	153	164	165	158
Equatorial Guinea																											
Eritrea																											
Ethiopia	108	111	133	140	155	165	180	185	199	163	173	113	113	138	367	688	160	249	227	170	181	72	70	113	97	78	64
Gabon	127	114	106	101	86	109	95	103	83	102	100	96	95	97	101	106	88	129	122	138	208	170	177	204	195	233	
Gambia	36	34	36	21	15	24	28	41	36	40	41	45	43	51	98	48	57	57	59	53	54	58	56	55	54	54	
Ghana	40	31	17	24	25	21	22	31	32	33	36	45	46	47	48	58	57	60	64	66	70	73	76	84	76	96	
Guinea-Bissau	81	57	25	44	42	59	143	80	81	138	114	119	98	139	143	135	137	115	65	87	93	108	110	118	111	130	
Kenya	68	59	66	53	49	50	50	56	50	51	58	79	86	103	124	137	165	188	205	228	244	271	290	288	296		
Lesotho	315	288	361	245	203	199	1	15	151	156	158	184	202	203	256	301	319	361	428	461	517	523	616	580	545	605	
Liberia	41	52	42	43	20	11	18	41																			
Madagascar	100	80	37	36	85	31	35	36	39	46	52	49	64	86	85	65	37	65	65	49	55	105	76	130	100	124	
Malawi	77	79	67	70	63	73	82	93	97	104	131	152	145	173	196	190	200	195	207	216	203	218	201	206	210	193	
Mali	14	15	3	8	28	24	27	36	35	22	38	33	39	39	36	35	41	55	44	46	42	42	41	40	40	42	
Mauritania	504	611	147	143	238	257	128	206	212	213	272	153	211	190	173	168	161	149	146	120	111	10	12	11	115	73	
Mauritius	14	16	12	15	12	11	12	11	11	12	11	13	12	15	13	12	10	11	10	13	13	10	12	11	11	10	
Mozambique	61	56	45	46	39	42	62	82	104	119	117	120	105	112	111	112	112	114	118	116	116	118	133	146	155	162	
Namibia																											
Nigeria	12	48	12	11	10	10	8	8	9	8	66																
Rwanda	14	15	15	13	14	18	17	23	29	15	21	20	15	11	8	12	13	14	17	20	21	36	29	33	41	44	
Sao Tome & Principe	29	26	24	24	22	38	48	58	65	86	45																
Senegal	34	43	26	38	16	13	85	75	78	63	83	89	80	78	84	92	87	86	74	82	81	77	84	79	83		
Seychelles	24	0	24	24	15	15	35	20	14	8	57	7	11	20	23	14	26	25	23	35	12	21	16				
Sierra Leone	23	26	26	9	23	24	10	3	3	15	36	40	65	62	47	78	75	76	83	99	97	102	106	121	140		
South Africa	190	201	209	199	185	180	163	167	176	190	220	207	214	227	223	178	258	291	323	331	333	322	462	483	562	628	
Swaziland	23	470	292																								
Togo	7	4	7	6	11	22	17	33	29	24	33	31	29	24	26	34	35	33	25	24	26	26	29	31	36	41	
Uganda	8	9	4	15																							
UR Tanzania	61	63	59	57	57	63	69	73	76	78	87	96	105	112	120	133	145	147	159	159	161	177	169	168	167	159	
Zambia	89	100	103	105	107	118	121	135	168	181	208	280	297	347	390	388	426	426	442	477	434	499	487	480	432	409	
Zimbabwe	56	54	58	47	67	54	57	61	61	67	87	109	147	178	207	261	288	359	381	400	402	440	460	411	431	385	
<b>AFR</b>	<b>58</b>	<b>67</b>	<b>60</b>	<b>62</b>	<b>62</b>	<b>67</b>	<b>66</b>	<b>71</b>	<b>78</b>	<b>74</b>	<b>82</b>	<b>78</b>	<b>80</b>	<b>75</b>	<b>96</b>	<b>86</b>	<b>97</b>	<b>97</b>	<b>108</b>	<b>115</b>	<b>117</b>	<b>126</b>	<b>143</b>	<b>150</b>	<b>160</b>	<b>157</b>	<b>160</b>

Rates are per 100 000 population. From 1995 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, Africa, 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										
Algeria	6 793	5 735	6 556	7 740	7 462	7 845	8 328	7 963	8 246	8 549	8 285	8 654	8 538	25	20	23	26	25	26	27	26	27	26	27	26	27	26	26										
Angola	4 874	4 337	3 804	8 016	8 246	7 333	7 379	9 053	11 923	18 087	18 971	20 301	20 410	21 489	42	36	31	63	64	55	54	65	83	123	125	130	127	130										
Benin	1 653	1 618	1 839	1 868	1 939	1 888	2 162	2 286	2 415	2 438	2 682	2 739	2 943	29	27	30	29	29	29	31	32	31	31	31	31	31	32	34										
Botswana	1 508	1 668	1 903	2 530	2 824	3 112	2 746	3 091	3 057	3 334	3 050	3 127	3 252	101	109	122	158	172	186	161	179	174	188	170	172	173	175											
Burkina Faso	5 611	1 028	1 381	1 126	1 331	1 411	1 560	1 522	1 544	1 703	1 926	2 282	2 659	6	10	13	10	12	12	12	13	12	12	13	14	16	19											
Burundi	1 861	1 527	1 121	1 533	1 022	2 782	2 924	3 040	2 791	3 087	3 087	3 262	3 119	31	25	18	24	32	43	45	44	40	42	40	42	43	42	38										
Cape Verde	2 316	1 883	2 896	2 312	3 548	4 374	5 832	3 960	4 695	7 921	10 692	11 218	13 001	13 811	17	14	21	16	24	29	38	25	29	48	63	64	73	76										
Central African Republic	1 111	1 117	1 03	1 04	1 03	1 04	1 11	1 11	1 11	1 11	1 11	1 11	1 11	131	28	28	28	25	24	24	30	23	34	34	27	25	51	104										
Chad	2 002	870	1 992	2 267	2 637	2 920	2 920	3 519	3 599	3 599	2 270	2 516	4 448	28	12	16	15	16	15	16	15	16	15	16	15	17	15	14										
Comoros	1 691	2 013	2 505	1 984	2 222	4 218	4 319	5 019	3 477	4 121	3 640	3 340	67	62	72	87	67	67	71	132	131	149	101	117	101	8	10	8										
Cote d'Ivoire	7 012	8 254	8 927	9 093	8 950	10 047	8 497	10 920	11 038	11 430	12 950	13 406	12 867	50	55	58	57	61	60	50	63	62	64	67	67	67	68	68										
DR Congo	14 924	20 914	24 125	24 609	33 442	34 923	36 123	42 054	44 518	53 576	62 192	66 040	63 488	35	46	52	52	62	69	71	71	81	83	97	109	111	105											
Equatorial Guinea			219	209	226	284	284																															
Ethiopia	5 752	9 040	13 160	15 957	18 864	21 587	30 510	33 028	36 541	39 898	41 430	38 525	36 674	10	15	21	25	29	32	44	46	50	53	54	49	45	45											
Gabon	395	486	283	577	888	916	1 137	1 033	1 233	1 323	1 042	1 145	1 209	38	46	24	52	78	79	94	84	99	104	81	87	81	87											
Gambia			778	743	820	900	861	1 035	1 040	1 011	1 127	1 209	1 209	67	62	66	70	64	70	68	64	70	68	64	70	73	73											
Ghana	5 778	2 638	6 474	7 254	7 757	6 877	7 316	7 712	7 732	7 714	7 259	7 505	7 786	33	15	35	39	40	35	36	37	37	36	33	33	34	34											
Guinea	2 082	2 158	2 263	2 844	2 981	3 362	3 563	3 920	4 092	4 300	4 495	5 015	5 479	31	30	31	38	39	43	44	48	49	51	52	57	61	64											
Guinea-Bissau	10 149	11 324	13 934	16 978	19 040	24 029	27 197	28 773	31 307	34 337	38 158	41 167	40 389	39	43	51	60	66	81	89	92	98	104	113	119	113	107											
Kenya	1 405	1 330	1 361	1 788	2 398	2 476	2 729	3 041	3 107	3 437	3 652	4 272	4 280	84	78	79	102	134	136	147	161	164	187	217	216	202	202											
Lesotho			1 154	668	1 190	1 190	1 021	934	1 974	1 319	2 490	2 167	2 906	75	54	29	44	44	44	33	29	61	40	74	63	81	81											
Liberia	6 881	7 366	8 026	8 456	9 639	8 639	11 092	11 387	12 881	13 526	13 056	15 613	15 613	52	54	58	59	59	63	63	67	66	73	75	70	81	81											
Madagascar	5 692	5 988	6 285	6 703	7 587	8 765	8 132	8 260	8 309	7 703	7 716	8 568	8 443	58	60	62	65	72	80	72	71	70	63	61	66	64	60											
Malawi	1 740	1 866	2 173	3 178	2 559	2 680	2 527	2 757	3 015	3 069	3 523	3 802	3 802	20	21	24	35	27	28	25	26	28	27	30	32	32	32											
Maldives			2 074	1 113	99	112	109	122	115	85	86	99	117	110	93	107	46	82	62	62	62	62	7	8	10	9	7											
Mauritius			9 526	9 677	10 586	10 478	11 116	12 116	12 825	13 257	13 967	15 236	16 138	17 058	64	63	66	64	66	70	72	73	75	80	82	85	87											
Mozambique	2	1 408	1 454	2 234	2 296	2 262	2 472	2 692	2 938	3 113	3 735	4 370	4 629	3	34	35	54	54	53	55	57	60	60	60	69	78	81											
Namibia	463	1 865	1 492	3 452	3 195	2 631	3 045	3 476	3 495	4 505	4 311	5 050	5 279	5	21	16	16	184	200	204	213	237	241	279	259	262	262											
Niger	1 723	9 476	10 662	11 235	13 161	15 903	17 423	23 410	21 936	28 173	33 755	35 048	39 903	2	9	10	10	10	11	13	14	18	17	21	24	25	28											
Nigeria			1 840	2 034	2 820	4 417	4 298	3 681	3 252	3 956	4 627	4 779	4 166	2	33	35	44	63	56	45	38	45	52	46	45	45	45											
Rwanda			4 599	5 421	5 949	5 430	5 611	5 823	6 094	5 796	6 587	6 437	6 722	52	60	64	57	56	50	56	57	53	59	56	57	56	57											
Sao Tome & Principe			2	1 408	1 454	2 234	2 296	2 262	2 472	2 692	2 938	3 113	3 735	3	34	35	54	54	53	55	57	60	60	60	69	78	81											
Senegal			23 112	42 163	54 073	66 047	72 098	75 967	83 808	98 799	116 364	126 268	125 460	131 059	69	69	228	125	150	161	167	182	212	247	266	262	272											
Seychelles			660	2 226	913	935	904	904	1 004	1 203	1 306	1 608	1 798	13	69	20	20	19	18	17	18	17	18	21	22	26	29	33										
Sierra Leone			11 949	14 763	13 631	15 312	17 254	18 222	18 463	17 251	20 310	20 868	20 559	60	72	64	70	76	78	77	70	68	73	75	75	75	71	68										
South Africa			15 569	17 164	19 985	21 472	22 010	23 726	24 125	24 049	24 685	24 136	24 689	55	59	67	70	70	74	73	71	71	68	68	69	66	63											
Swaziland			9 620	10 038	12 072	14 512	14 492	14 414	14 392	15 370	15 941	14 488	14 581	107	108	127	108	127	114	124	122	150	171	153	129	120	120											
Togo			5 331	8 965	11 965	14 512	14 492	14 414	14 392	15 370	15 941	14 488	14 581	47	76	100	119	117	115	114	120	124	112	112	100	96	96											
Uganda			107 012	121 005	212 910	264 659	277 591	326 831	348 142	362 527	402 431	459 983	513 029	551 031	19	21	36	44	45	51	54	54	59	65	71	75	73	72										
Uganda			107 012	121 005	212 910	264 659	277 591	326 831	348 142	362 527	402 431	459 983	513 029	551 031	19	21	36	44	45	51	54	54	59	65	71	75	73	72										
Zambia																																						
Zimbabwe																																						
<b>AFR</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

## Malawi

Fewer new pulmonary smear positive cases were evaluated than registered due to national policy of registering all patients in whom TB is diagnosed, but reporting outcomes only for those who start treatment.

## Mozambique

While DOTS is available in all administrative areas, it is estimated that only around 50% of the population lives within 10 km of the nearest DOTS unit, reflecting the low coverage of public health services.

Breakdown of notified cases by sex was not available. In 2006, of the 18 275 notified new smear-positive cases, 337 were in patients aged under 15 years, and 17 938 were patients aged 15 years or more.

## Nigeria

Breakdown of notified cases by age and sex was not available for all states.