

**Summary by WHO region ...**

**Africa ...**

**The Americas ...**

**Eastern Mediterranean ...**

**Europe ...**

**South-East Asia ...**

**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	Grace Kangwagye Nkubito
Burkina Faso	Sary Mathurin Dembele; Michel Sawadogo
Burundi	Donatien Nkurunziza
Cameroon	Wang Hubert; Adolphe Nkou Bikoe
Cape Verde	Maria da Luz Lima
Central African Republic	Modeste Hoza; Pierre Kanda
Chad	Mahamat Ali Acyl
Comoros	Aboubacar Mze Mbaba
Congo	Joseph Miboussa; Antoine Ngoulou
Côte d'Ivoire	Jacquemin Kouakou; Amino Angennes Akaki
Congo	André Ndongosieme; Marie-Léopoldine Mbulula
Equatorial Guinea	
Eritrea	Mineab Sebhatu
Ethiopia	Getachew Wenimagene; Worku Negusu
Gabon	Toung Mve Médard; Géneviève Angue Nguema
Gambia	Adama Jallow; Kejaw Saikyhan
Ghana	Frank Adae Bonsu
Guinea	Namory Keita; Fodé Cissé
Guinea-Bissau	Miguel Camará; Laia Jamanca
Kenya	Joseph Kimagut Sitienei; John Mansoer
Lesotho	Job Ndile; Moseliwliawe Letsie
Liberia	C. Lawuo Gwesa
Madagascar	Rarivoson Benjamin; Sylvestre Ranaivohajaina
Malawi	Felix Salaniponi; Maxwell Gondwe
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	Marofa Boulacar; Hamadou Hamidou
Nigeria	J. Kabir; Amos Omoniyi
Rwanda	Michel Gasana; Evariste Gasana
Sao Tome & Principe	Aleixo Rodrigues de Sousa Pires
Senegal	Henriette Cécile Diop; Awa Hélène Diop
Seychelles	Justin Freminot
Sierra Leone	Foday Dafea; Saffa Kamara
South Africa	Lindiwe Mvusi; Carina Idema; Letta Seshoka
Swaziland	Themba Dlamini
Togo	Sadzo-Hetsu Kwami Dzrevo; Kwami Dzrevo Sadzo-Hetsu
Uganda	Francis Adatu-Engwau; Joseph Imoko
UR Tanzania	Saidi Egwaga; Emmanuel Nkiligi
Zambia	Nathan Kapata
Zimbabwe	Charles Sandy; Nicholas Siziba

**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.**

# AFRICA: SUMMARY OF TB CONTROL POLICIES

Country	DOTS coverage, %	NTP manual	SmeaR microscopy for diagnosis	Standardized chemotherapy	DOT	Monitoring outcomes	Cases notified by type, age & sex	2004 cohort outcomes reported; new; retreatment	SmeaR microscopy free-of-charge	Drugs free-of-charge	Uninterrupted drug supply	EQA for smeaR microscopy	Strategic HRD plan	TB control in curricula of doctors and nurses	Up-to-date job descriptions	Guidelines for private practitioners	Public providers notified/referred	Private providers notified/referred	ISTC promoted in 2006	Health system strengthening in 2006	Plan	PAL in plan	Community-based TB care	Patients' charter promoted in 2006	Operational research	MDR-TB mgmt; in line with WHO guidelines	HIV counselling & testing	Surveillance of HIV prev. in TB pts	
ALGERIA	100																												
ANGOLA	60																												
BEHIN	100																												
BOTSWANA	100																												
BURKINA FASO	100																												
BURUNDI	100																												
CAMEROON	100																												
CAPE VERDE	80																												
CENTRAL AFRICAN REPUBLIC	17																												
CHAD	100																												
COMOROS	100																												
CONGO	60																												
COTE D'IVOIRE	74																												
DR CONGO	100																												
EQUATORIAL GUINEA	0																												
ERITREA	86																												
ETHIOPIA	90																												
GABON	24																												
GAMBIA	100																												
GHANA	100																												
GUINEA	100																												
GUINEA-BISSAU	85																												
KENYA	100																												
LESOTHO	100																												
LIBERIA	40																												
MADAGASCAR	100																												
MALAWI	100																												
MALI	100																												
MAURITANIA	82																												
MAURITIUS	100																												
MOZAMBIQUE	100																												
NAMIBIA	100																												
NIGER	50																												
NIGERIA	65																												
RWANDA	100																												
SAO TOME & PRINCIPE	0																												
SENEGAL	100																												
SEYCHELLES	100																												
SIERRA LEONE	100																												
SOUTH AFRICA	94																												
SWAZILAND	100																												
TOGO	100																												
UGANDA	100																												
UR TANZANIA	100																												
ZAMBIA	100																												
ZIMBABWE	100																												
AFR	89																												

DOT indicates directly observed treatment; EQA, external quality assurance; HRD, human resources development; ISTC, International Standards for Tuberculosis Care; PAL, Practical Approach to Lung Health; prev., prevalence. First number in final row shows regional coverage; remaining numbers show the proportion of countries for which the answer is "yes" or "all" (i.e. those shown in dark green in the table).

■ Yes/all ● Some/partially ▲ No/none □ Answer not provided MA Not applicable. See explanatory notes on page 163 for details of colour-coding.

Table A2.1 Estimated burden of TB, Africa, 1990 and 2005

	Incidence, 1990						Prevalence, 1990						Incidence, 2005						Prevalence, 2005						TB mortality, 2005						HIV prevalence in adult 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*		All forms*		All forms*		All forms*		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	number	rate	number	rate	number	rate		
Algeria	9 278	37	4 175	17	11 013	44	539	2	18 181	55	63	≤ 1	8 175	25	22	≤ 1	18 150	55	32	≤ 1	680	2	3	≤ 1	18 150	55	32	≤ 1	680	2	3	≤ 1
Angola	22 102	210	9 690	92	55 666	529	6 406	61	42 849	289	5 164	32	18 766	118	1 807	11	53 095	333	2 562	16	5 709	36	1 358	9	19	197	2	1 404	17	197	2	
Benin	4 088	79	1 801	35	7 562	148	803	16	7 416	88	473	6	3 290	39	165	2	12 121	144	236	3	1 404	17	197	2	12 121	144	236	3	1 404	17	197	2
Botswana	3 374	236	1 369	96	4 252	298	534	37	11 551	654	5 726	324	4 626	262	2 004	114	9 812	556	2 863	162	1 547	88	852	48	9 812	556	2 863	162	1 547	88	852	48
Burkina Faso	13 454	158	5 941	70	32 026	375	3 865	45	29 538	223	2 297	17	13 062	99	804	6	60 925	461	1 148	9	7 741	59	1 149	9	60 925	461	1 148	9	7 741	59	1 149	9
Burundi	7 064	125	3 072	54	14 032	247	2 032	36	25 188	334	3 004	40	11 034	146	1 051	14	45 411	602	1 502	20	6 271	83	1 341	18	45 411	602	1 502	20	6 271	83	1 341	18
Cameroon	7 582	65	3 294	28	19 178	165	2 228	19	28 451	174	5 170	32	12 286	75	1 810	11	33 695	206	2 585	16	3 739	23	1 316	8	33 695	206	2 585	16	3 739	23	1 316	8
Cape Verde	5 577	157	251	71	1 425	401	158	44	884	174	—	—	—	—	—	—	1 689	37	—	—	189	37	—	—	1 689	37	—	—	189	37	—	—
Central African Republic	3 514	117	1 477	49	8 199	273	1 140	38	12 670	314	3 368	93	5 325	132	1 318	33	19 520	483	1 883	47	3 666	91	1 730	43	19 520	483	1 883	47	3 666	91	1 730	43
Chad	6 140	101	2 731	45	13 400	221	1 506	25	26 482	272	3 969	35	11 580	119	1 179	12	48 273	495	1 685	17	6 786	70	1 512	16	48 273	495	1 685	17	6 786	70	1 512	16
Comoros	456	87	205	39	996	189	78	15	359	45	—	—	—	—	—	—	708	89	—	—	54	7	—	—	708	89	—	—	54	7	—	—
Congo	3 399	137	1 455	59	5 279	213	845	34	14 659	367	2 604	65	6 336	158	911	23	17 958	449	1 302	33	2 747	69	726	18	17 958	449	1 302	33	2 747	69	726	18
Côte d'Ivoire	18 069	143	7 865	62	36 777	291	4 304	34	69 417	382	11 881	65	30 050	166	4 158	23	119 718	659	5 941	33	17 977	99	5 405	30	119 718	659	5 941	33	17 977	99	5 405	30
DR Congo	50 215	133	22 004	58	84 887	225	12 063	32	204 977	356	24 259	42	89 814	156	8 491	15	311 074	541	12 129	21	42 294	73	9 534	17	311 074	541	12 129	21	42 294	73	9 534	17
Equatorial Guinea	307	87	134	38	543	154	62	18	1 172	233	138	27	513	102	48	10	1 788	355	106	69	238	47	56	17	1 788	355	106	69	238	47	56	17
Eritrea	6 687	220	2 949	97	17 574	578	1 853	61	12 409	282	1 017	23	5 482	125	356	8	22 689	515	508	12	3 018	69	424	10	22 689	515	508	12	3 018	69	424	10
Ethiopia	65 529	128	28 943	57	133 259	261	15 920	31	266 288	344	20 079	26	117 822	152	7 028	9	422 529	546	10 039	13	56 490	73	7 110	9	422 529	546	10 039	13	56 490	73	7 110	9
Gabon	1 504	157	658	69	3 805	397	440	46	4 256	308	1 024	74	1 813	131	358	26	5 321	385	512	37	903	65	331	24	5 321	385	512	37	903	65	331	24
Gambia	1 771	189	793	85	3 333	356	365	39	3 677	242	310	20	1 624	107	109	7	5 344	352	155	10	689	46	110	7	5 344	352	155	10	689	46	110	7
Ghana	34 511	223	15 300	99	81 731	528	9 332	60	45 328	205	3 586	16	20 039	91	1 255	6	83 982	380	1 793	8	10 721	48	1 621	7	83 982	380	1 793	8	10 721	48	1 621	7
Guinea	8 053	130	3 601	58	16 958	273	1 902	31	22 175	236	1 212	13	9 858	105	424	5	40 533	431	606	6	4 857	52	549	6	40 533	431	606	6	4 857	52	549	6
Guinea-Bissau	1 635	161	727	72	4 216	415	411	41	3 272	206	404	25	1 432	90	141	9	4 650	293	202	13	640	40	149	9	4 650	293	202	13	640	40	149	9
Kenya	25 337	108	10 753	46	38 674	165	5 128	22	219 582	641	43 626	127	94 449	276	15 269	45	320 616	936	21 813	64	47 880	140	15 238	44	320 616	936	21 813	64	47 880	140	15 238	44
Lesotho	2 856	179	1 190	75	3 984	250	486	31	12 489	696	5 713	318	5 049	281	2 000	111	10 556	588	2 857	159	1 926	107	1 087	61	10 556	588	2 857	159	1 926	107	1 087	61
Liberia	2 403	113	1 051	49	5 831	273	744	35	9 894	301	1 211	37	4 331	132	424	13	16 644	507	606	18	2 292	70	519	16	16 644	507	606	18	2 292	70	519	16
Madagascar	21 907	182	9 850	82	45 551	378	4 813	40	43 515	234	845	5	19 497	105	296	2	73 667	396	423	2	8 361	45	344	2	73 667	396	423	2	8 361	45	344	2
Madagascar	24 327	257	10 109	107	40 438	427	5 908	62	52 751	409	18 558	144	21 862	170	6 495	50	66 771	518	9 279	72	12 665	98	6 295	49	66 771	518	9 279	72	12 665	98	6 295	49
Mali	27 167	305	12 022	135	63 332	712	7 565	85	37 558	278	2 323	17	16 689	123	813	6	78 097	578	1 162	9	9 608	71	1 164	9	78 097	578	1 162	9	9 608	71	1 164	9
Mauritania	4 724	233	2 116	104	11 999	591	1 354	67	9 146	298	233	8	4 092	133	82	3	18 098	590	117	4	2 115	69	107	3	18 098	590	117	4	2 115	69	107	3
Mauritius	728	69	327	31	1 690	160	144	14	776	62	16	1	347	28	6	≤ 1	1 645	132	8	≤ 1	141	11	6	≤ 1	1 645	132	8	≤ 1	141	11	6	≤ 1
Mozambique	22 426	167	9 742	73	39 724	286	4 532	34	88 533	447	31 674	160	36 673	185	11 086	56	118 139	597	15 837	80	24 498	124	13 035	66	118 139	597	15 837	80	24 498	124	13 035	66
Namibia	3 638	260	1 544	110	7 970	570	950	68	14 164	697	5 644	278	5 809	286	1 976	97	11 730	577	2 822	139	1 581	77	710	35	11 730	577	2 822	139	1 581	77	710	35
Niger	10 819	128	4 834	57	27 534	325	3 092	36	22 829	164	924	7	10 180	73	323	2	41 062	294	462	3	4 884	35	397	3	41 062	294	462	3	4 884	35	397	3
Nigeria	95 523	105	42 317	47	216 170	239	24 481	27	371 642	283	51 163	39	162 123	123	17 907	14	704 388	536	25 581	19	99 938	76	24 606	19	704 388	536	25 581	19	99 938	76	24 606	19
Rwanda	9 584	135	4 062	57	17 169	242	3 050	43	32 627	361	3 696	41	14 313	158	1 293	14	60 824	673	1 848	20	8 266	91	1 716	19	60 824	673	1 848	20	8 266	91	1 716	19
Sao Tome & Principe	157	134	71	61	402	344	44	38	165	105	—	—	—	—	—	—	403	258	—	—	42	27	—	—	403	258	—	—	42	27	—	—
Senegal	15 866	199	7 112	89	31 379	393	3 464	43	29 689	255	1 004	9	13 264	114	351	3	54 362	466	502	4	6 350	54	440	4	54 362	466	502	4	6 350	54	440	4
Seychelles	31	43	14	19	81	112	6	9	27	34	—	—	—	—	—	—	45	56	—	—	4	5	—	—	45	56	—	—	4	5	—	—
Sierra Leone	8 955	220	3 961	97	20 305	498	2 336	57	26 266	475	1 472	27	11 673	211	515	9	49 978	905	736	13	6 107	111	673	12	49 978	905	736	13	6 107	111	673	12
South Africa	82 585	224	35 566	96	213 524	579	23 682	64	284 538	600	117 289	247	116 312	245	41 055	87	242 401	511	58 650	124	33 654	71	19 358	41	242 401	511	58 650	124	33 654	71	19 358	41
Swaziland	2 276	263	956	111	5 612	648	690	80	13 029	1 262	6 935	672	5 169	501	2 427	235	12 506	1 211	3 467	336	3 137	304	2 032	197	12 506	1 211	3 467	336	3 137	304	2 032	197
Togo	13 200	336	5 907	149	31 932	806	3 609	91	22 910	373	2 475	40	10 062	164	866	14	46 284	753	1 2													

Table A2.2 Whole country case notifications and case detection rates, Africa, 2005

Country	TB cases notified from whole country (DOTS + non-DOTS)										Incidence and case detection rates					Proportions				
	Population		New and relapse (WHO total)		New pulmonary		New extra-pulmonary		Re-treatment cases		New pulm. lab. confirm.		Estimated incidence all forms number	Case detection rate all new ss+ %	ss+ pulm. (% of new+relapse)	Extrapulm. (% of new+relapse)	Re-treat. (% of new+relapse)			
	thousands	number	number	rate	number	rate	number	rate	number	rate	number	number						%	%	%
Algeria	32 854	21 336	21 336	65	8 654	26	1 651	10 216	267	548	46	119	18 181	8 175	114	106	84	41	48	3
Angola	15 941	38 317	37 175	233	20 410	128	12 487	2 569	646	1 729	496	646	42 849	18 766	83	109	62	55	7	7
Benin	8 439	3 457	3 270	39	2 739	32	96	285	101	150	86	101	7 416	3 290	84	97	84	32	9	10
Botswana	1 765	10 228	10 058	570	3 170	180	5 166	1 220	46	502	46	48	11 551	4 626	83	69	38	32	12	5
Burkina Faso	13 228	3 659	3 484	26	2 294	17	371	571	48	0	0	2 294	29 538	13 062	11	18	86	66	16	9
Burundi	7 548	6 627	6 585	87	3 262	43	1 160	2 089	21	74	21	21	25 188	11 034	26	30	74	50	32	2
Cameroon	16 322	22 073	21 489	132	13 001	80	5 021	2 461	93	481	0	13 001	28 451	12 286	72	106	72	60	11	7
Cape Verde	507	305	292	58	135	27	93	43	0	21	3	135	884	398	31	34	59	46	15	11
Central African Republic	4 038	3 411	3 210	79	2 153	53	608	286	0	163	39	0	12 670	5 325	24	40	78	67	9	9
Chad	9 749	6 505	6 311	65	2 516	26	2 419	1 055	75	119	0	2 516	26 482	11 560	23	22	51	40	17	8
Comoros	798	112	111	14	79	10	14	16	0	2	0	112	359	162	30	49	85	71	14	3
Congo	3 999	9 959	9 853	246	3 640	91	3 249	2 685	299	38	70	3 640	14 659	6 336	65	57	53	37	27	4
Cote d'Ivoire	18 154	20 026	19 681	106	12 486	69	2 315	4 235	110	0	0	12 486	69 417	30 050	27	42	84	63	22	5
DR Congo	57 549	99 575	97 075	169	65 040	113	9 959	18 494	965	3 562	944	965	204 977	89 814	46	72	87	67	19	6
Equatorial Guinea	504												1 172	513						
Eritrea	4 401	3 612	3 549	81	687	16	1 764	1 001	5	97	22	36	12 409	5 482	28	13	28	19	28	3
Ethiopia	77 431	125 135	124 262	160	38 525	50	39 816	43 675	2 246	313	560	38 525	266 288	117 822	46	33	49	31	35	2
Gabon	1 384	2 611	2 512	182	1 042	75	1 071	241	81	158	18	81	4 256	1 813	55	57	49	41	10	10
Gambia	1 517	2 120	2 031	134	1 127	74	749	78	0	77	27	62	3 677	1 624	53	69	60	55	4	8
Ghana	22 113	12 124	12 124	55	7 505	34	3 068	1 019	532	101	126	532	45 328	20 039	26	37	71	62	8	4
Guinea	9 402	7 090	6 863	73	5 479	58	524	629	231	101	126	5 479	22 175	9 858	30	56	91	80	9	6
Guinea-Bissau	1 586	1 816	1 774	112	1 132	71	522	24	4	38	4	1 132	3 272	1 432	51	79	68	64	1	8
Kenya	34 256	108 401	102 680	300	40 389	118	43 772	15 265	81	1 278	4 362	40 389	219 582	94 449	45	43	68	39	15	8
Lesotho	1 795	10 802	10 802	602	4 280	238	4 063	2 020	439	66	118	418	12 489	5 049	83	85	51	40	19	9
Liberia	3 283	3 456	3 432	105	2 187	66	575	657	33	10	14	2 187	9 894	4 331	34	50	79	63	19	2
Madagascar	18 606	19 475	18 993	102	13 086	70	1 287	3 634	0	1 016	186	296	43 515	19 497	41	67	91	69	19	8
Malawi	12 884	27 610	25 491	198	8 443	66	10 132	5 823	1 093	200	95	85	52 751	21 882	46	39	45	33	23	12
Mali	13 518	4 877	4 697	35	3 523	26	482	492	0	200	0	3 523	37 558	16 669	12	21	88	75	10	8
Mauritania	3 069	2 218	2 162	70	1 155	38	454	403	0	150	19	37	9 146	4 092	22	28	72	53	19	9
Mauritius	1 245	127	125	10	110	9	4	8	3	0	2	110	776	347	16	32	96	88	6	4
Mozambique	19 792	33 718	33 231	168	17 877	90	9 184	4 771	1 399	183	304	17 877	88 533	36 873	36	49	66	54	14	6
Namibia	2 031	15 894	14 920	735	5 222	257	4 455	1 907	2 487	849	974	5 222	14 164	5 809	99	90	54	35	13	11
Niger	13 957	8 224	7 873	56	5 050	36	1 193	1 227	403	91	260	5 050	22 829	10 180	33	50	81	64	16	9
Nigeria	131 530	66 848	62 598	48	35 048	27	22 705	2 836	0	2 009	1 802	35 048	371 642	162 123	16	22	61	56	5	7
Rwanda	9 038	7 680	7 220	80	4 166	46	859	1 727	97	371	98	66	32 627	14 313	21	29	83	58	24	11
Sao Tome & Principe	157	142	136	87	49	31	75	1	0	11	7	9	165	74	76	66	40	36	1	18
Senegal	11 658	10 120	9 765	84	6 722	58	1 567	921	262	103	565	6 722	29 699	13 264	31	51	81	69	9	9
Seychelles	81	14	14	17	8	10	3	1	0	2	0	13	27	12	44	65	73	57	7	14
Sierra Leone	5 525	6 930	6 737	122	4 370	79	1 679	551	135	58	135	4 370	26 266	11 673	25	37	72	65	8	5
South Africa	47 432	302 467	270 178	570	125 460	265	76 680	39 739	0	28 299	2 212	7 030	284 538	116 312	85	108	62	46	15	20
Swaziland	1 032	8 864	8 062	781	2 187	212	4 106	1 458	311	97	62	643	13 029	5 169	59	42	35	27	18	6
Togo	6 145	2 636	2 537	41	1 798	29	170	484	85	31	63	0	22 910	10 062	11	18	91	71	19	7
Uganda	28 816	41 809	41 040	142	20 559	71	15 040	3 780	0	1 661	769	20 559	106 285	45 567	37	45	58	50	9	6
UR Tanzania	38 329	64 200	61 022	159	25 264	66	20 810	13 094	1 854	135	255	46 074	131 078	56 262	45	45	55	41	21	8
Zambia	11 668	53 267	49 576	425	14 857	127	24 327	8 587	1 805	215	3 476	14 857	70 026	28 777	68	52	38	30	17	10
Zimbabwe	13 010	54 891	50 454	388	13 155	101	29 074	6 721	0	1 504	0	4 437	78 187	31 847	63	41	31	26	13	11
<b>AFR</b>	<b>738 083</b>	<b>1 254 751</b>	<b>1 186 800</b>	<b>161</b>	<b>550 001</b>	<b>75</b>	<b>364 789</b>	<b>208 979</b>	<b>29 400</b>	<b>60 091</b>	<b>7 477</b>	<b>15 720</b>	<b>2 528 915</b>	<b>1 087 920</b>	<b>45</b>	<b>51</b>	<b>60</b>	<b>46</b>	<b>18</b>	<b>10</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 163 for further details. Data can be downloaded from www.who.int/tb

Table A2.3 DOTS coverage, case notifications and case detection rates, Africa, 2005

	DOTS coverage %	New and relapse (WHO total)										TB cases reported from DOTS services										Estimated incidence and case detection rate					Proportions			
		number		rate		ss+ / unkn.		New pulmonary		New extra-pulmonary		Other		Relapse		After failure		After default		Other re-treat.		New pulm. lab. confirm.		all forms number	ss+ number	Case detection rate		ss+ (% of pulm.)	ss+ (% of new+relapse)	Extrapulm. new+relapse (% of new+re-treat.)
		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	100	21 336	65	8 654	26	1 651	10 216	267	548	119	0	0	0	0	0	0	0	0	0	0	0	8 921	106	114	106	84	41	48	3	
Angola	60	30 673	192	16 024	101	11 023	2 234	1 392	1 392	344	498	0	0	0	0	0	0	0	0	0	0	16 024	68	18 766	68	59	52	7	7	
Benin	100	3 270	39	2 739	32	96	2 835	2 739	150	86	101	0	0	0	0	0	0	0	0	0	0	7 416	3 290	42	83	97	84	9	10	
Botswana	100	10 058	570	3 170	180	5 166	1 220	502	502	46	46	0	0	0	0	0	0	0	0	0	0	3 170	63	83	69	38	32	12	5	
Burkina Faso	100	3 484	26	2 294	17	371	571	89	159	127	48	0	0	0	0	0	0	0	0	0	0	2 294	11	13 062	11	86	66	16	9	
Burundi	100	6 585	87	3 262	43	1 160	2 089	0	74	21	21	0	0	0	0	0	0	0	0	0	0	25 168	11 034	26	30	74	50	32	2	
Cameroon	100	21 499	132	13 001	80	5 021	2 461	1 016	93	481	0	0	0	0	0	0	0	0	0	0	0	28 451	12 286	72	106	72	60	11	7	
Cape Verde	80	292	58	135	27	93	43	21	3	10	0	0	0	0	0	0	0	0	0	0	0	884	398	31	34	59	46	15	11	
Central African Republic	17	3 210	79	2 153	53	608	286	0	163	39	89	0	0	0	0	0	0	0	0	0	0	12 670	5 325	24	40	78	67	9	9	
Chad	100	6 311	65	2 516	26	2 419	1 055	321	75	119	0	0	0	0	0	0	0	0	0	0	0	26 482	11 580	23	22	51	40	17	8	
Comoros	100	111	14	79	10	16	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	359	162	30	49	85	71	14	3	
Congo	60	9 853	246	3 640	91	3 249	2 665	0	259	38	70	0	0	0	0	0	0	0	0	0	0	14 659	6 336	65	57	53	37	27	4	
Côte d'Ivoire	74	18 037	99	11 300	62	2 161	3 983	0	593	222	91	0	0	0	0	0	0	0	0	0	0	69 417	30 050	25	38	84	63	22	5	
DR Congo	100	97 075	169	65 040	113	9 959	18 494	0	3 582	944	965	0	0	0	0	0	0	0	0	0	0	204 977	89 814	46	72	87	67	19	6	
Equatorial Guinea																						1 172	513							
Eritrea	86	3 549	81	687	16	1 764	1 001	97	22	22	5	36	0	0	0	0	0	0	0	0	0	667	5 482	28	13	28	19	28	3	
Ethiopia	90	124 262	160	38 525	50	39 816	43 675	2 246	313	560	0	0	0	0	0	0	0	0	0	0	0	38 525	117 822	46	33	49	31	822	35	
Gabon	24	2 512	182	1 042	75	1 071	241	158	18	18	81	0	0	0	0	0	0	0	0	0	0	4 256	1 813	55	57	60	41	10	10	
Gambia	100	2 031	134	1 127	74	749	78	0	77	27	62	0	0	0	0	0	0	0	0	0	0	3 677	1 624	53	69	49	55	4	8	
Ghana	100	12 124	55	7 505	34	3 068	1 019	532	0	0	101	126	0	0	0	0	0	0	0	0	0	45 328	20 039	26	37	71	62	8	4	
Guinea	100	6 863	73	5 479	58	524	629	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22 175	9 858	30	56	91	80	9	6	
Guinea-Bissau	85	1 174	112	1 132	71	522	24	0	96	4	38	0	0	0	0	0	0	0	0	0	0	3 272	1 432	51	79	68	64	1	8	
Kenya	100	102 660	300	40 389	118	43 772	15 265	3 254	81	1 278	4 362	0	0	0	0	0	0	0	0	0	0	219 582	94 449	45	43	68	39	15	8	
Lesotho	100	10 802	602	4 280	238	4 063	2 020	439	66	118	418	0	0	0	0	0	0	0	0	0	0	12 489	5 049	83	86	51	40	19	9	
Liberia	40	3 432	105	2 167	66	575	657	33	10	14	0	0	0	0	0	0	0	0	0	0	0	9 894	4 331	34	50	79	63	19	2	
Madagascar	100	18 993	102	13 066	70	1 287	3 634	0	1 016	186	296	0	0	0	0	0	0	0	0	0	0	43 515	19 497	41	67	91	69	19	8	
Malawi	100	25 491	198	8 443	66	10 132	5 823	1 093	0	0	2 119	0	0	0	0	0	0	0	0	0	0	52 751	21 882	46	39	45	33	23	12	
Mali	100	4 697	35	3 523	26	482	492	200	95	85	0	0	0	0	0	0	0	0	0	0	0	3 523	16 669	12	21	88	75	10	8	
Mauritania	82	2 162	70	1 155	38	454	403	0	150	19	37	0	0	0	0	0	0	0	0	0	0	9 146	4 092	22	28	72	53	19	9	
Mauritius	100	125	10	110	9	4	8	3	0	2	0	0	0	0	0	0	0	0	0	0	0	1 127	947	16	32	96	88	6	4	
Mozambique	100	33 231	168	17 877	90	9 184	4 771	1 399	183	304	0	0	0	0	0	0	0	0	0	0	0	17 877	36 673	36	48	66	54	14	6	
Namibia	100	14 920	735	5 222	257	4 455	1 907	2 487	849	974	0	0	0	0	0	0	0	0	0	0	0	5 222	5 809	99	90	54	35	13	11	
Niger	50	7 873	56	5 050	36	1 193	1 227	403	0	260	0	0	0	0	0	0	0	0	0	0	0	22 829	10 180	33	50	81	64	16	9	
Nigeria	65	62 598	48	35 048	27	22 705	2 836	0	2 009	1 056	1 602	0	1 392	0	0	0	0	0	0	0	0	37 164	162 123	16	22	61	56	5	7	
Rwanda	100	7 220	80	4 166	46	859	1 727	97	371	66	0	0	0	0	0	0	0	0	0	0	0	32 627	14 313	21	29	83	58	24	11	
Sao Tome & Principe	0																					1 165	74							
Senegal	100	9 765	84	6 722	58	1 557	921	565	103	252	0	0	0	0	0	0	0	0	0	0	0	29 689	13 264	31	51	81	69	9	9	
Seychelles	100	14	17	8	10	3	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	27	12	44	65	73	57	7	14	
Sierra Leone	100	6 737	122	4 370	79	1 679	551	137	58	135	0	0	0	0	0	0	0	0	0	0	0	26 266	11 673	25	37	72	65	8	5	
South Africa	94	260 162	548	119 906	253	73 551	38 786	0	27 919	2 107	6 871	22 581	0	119 906	0	0	0	0	0	0	0	284 538	116 312	82	103	62	46	15	20	
Swaziland	100	8 062	781	2 187	212	4 106	1 458	0	311	97	62	643	0	2 187	13 029	5 169	59	42	35	27	18	13 029	10 062	11	18	91	71	19	7	
Togo	100	2 537	41	1 798	29	170	484	85	31	63	0	0	0	0	0	0	0	0	0	0	0	22 910	10 062	11	18	91	71	19	7	
Uganda	100	41 040	142	20 559	71	15 040	3 780	0	1 661	769	0	0	0	0	0	0	0	0	0	0	0	20 559	45 567	37	45	58	50	9	6	
UR Tanzania	100	61 022	159	25 264	66	20 810	13 094	1 854	135	255	2 788	0	0	0	0	0	0	0	0	0	0	131 078	56 262	45	45	55	41	21	8	
Zambia	100	49 576	425	14 857	127	24 327	8 587	1 805	215	3 476	0	0	0	0	0	0	0	0	0	0	0	70 026	28 777	68	52	38	30	17	10	
Zimbabwe	100	50 454	388	13 155	101	29 074	6 721	0	1 504	0	0	0	0	0	0	0	0	0	0	0	0	78 187	31 847	63	41	31	26	13	11	
<b>AFR</b>	<b>89</b>	<b>1 168 502</b>	<b>158</b>	<b>538 816</b>	<b>73</b>	<b>359 987</b>	<b>207 438</b>	<b>2 940</b>	<b>59 321</b>	<b>7 200</b>	<b>15 385</b>	<b>42 220</b>	<b>2 649</b>	<b>555 449</b>	<b>2 528 915</b>	<b>1 087 920</b>	<b>44</b>	<b>50</b>	<b>60</b>	<b>46</b>	<b>18</b>	<b>60</b>	<b>46</b>	<b>18</b>	<b>60</b>	<b>46</b>	<b>18</b>	<b>10</b>	<b>10</b>	

ss+ indicates sputum smear-positive; ss-, sputum smear-negative; unkn., sputum smear result unknown; re-treat., re-treatment; pulm.lab. confirmed, pulmonary case confirmed by positive smear or culture. See Explanatory notes on page 163 for further details. Data can be downloaded from www.who.int/tb



Table A2.5 Treatment outcomes, Africa, 2004 cohort

	New smear-positive cases, DOTS										New smear-positive cases, non-DOTS										Smear-positive re-treatment cases, DOTS										
	Number of cases					% of cohort					Number of cases					% of cohort					Number					% of cohort					
	Notified	Regist'd	of notif regist'd	Completed	Success	Notified	Regist'd	of notif regist'd	Completed	Success	Notified	Regist'd	of notif regist'd	Completed	Success	Regist'd	Cured	Completed	Failed	Transferred	Not eval.	Success	Regist'd	Cured	Completed	Failed	Transferred	Not eval.	Success		
Algeria	8 285	8 405	101	74	17	2	1	2	4	0	91	3 812	3 001	79	49	33	4	4	8	2	0	82	689	67	15	3	3	8	4	0	82
Angola	16 489	19 477	118	43	24	4	2	25	2	0	68												314	62	16	10	6	5	0	78	
Benin	2 582	2 582	100	68	15	9	3	4	1	0	83																				
Botswana	3 127	3 202	102	27	37	6	1	6	10	13	65																				
Burkina Faso	1 926	1 939	101	61	7	14	6	10	3	0	67																				
Burundi	3 277	3 294	101	45	33	0	18	1	0	78																					
Cameroon	11 218	11 506	103	62	8	6	1	17	2	3	71																				
Cape Verde	0	169	100	51	20	6	1	12	3	7	71																				
Central African Republic	220	220	100	63	29	8	0	0	0	0	91																				
Chad	1 816	1 816	100	48	21	5	2	19	6	0	69																				
Comoros	63	68	108	94	0	3	3	0	0	0	94																				
Congo	4 121	1 890	46	54	8	1	2	29	6	0	63																				
Côte d'Ivoire	11 467	11 554	101	60	11	6	2	12	6	3	71																				
DR Congo	62 192	62 192	100	79	6	6	1	5	3	1	85																				
Equatorial Guinea	406																														
Eritrea	720	720	100	79	6	7	0	5	3	1	85																				
Ethiopia	41 430	41 430	100	64	15	6	1	5	5	4	79																				
Gabon	1 323	1 323	100	34	6	2	1	39	1	18	40																				
Gambia	1 011	1 022	101	76	10	6	2	4	2	0	86																				
Ghana	7 259	7 259	100	64	7	8	2	13	5	0	72																				
Guinea	5 015	5 015	100	64	8	7	1	9	12	0	72																				
Guinea-Bissau	1 008	1 149	114	56	19	7	1	12	4	0	75																				
Kenya	41 167	41 167	100	69	11	5	0	7	5	2	80																				
Lesotho	4 272	4 272	100	46	23	10	1	3	14	3	69																				
Liberia	2 490	2 490	100	65	5	2	7	17	4	0	70																				
Madagascar	13 526	13 090	97	63	8	6	2	16	5	0	71																				
Malawi	8 566	8 566	100	70	1	16	1	3	2	6	71																				
Mali	3 069	3 084	100	62	9	12	2	12	4	0	71																				
Mauritania	1 662	1 751	105	18	4	1	0	11	4	62	22																				
Mauritius	117	117	100	89	3	3	0	3	4	0	89																				
Mozambique	17 058	17 058	100	75	1	13	1	7	2	0	77																				
Namibia	5 155	5 155	100	49	20	8	2	13	7	2	68																				
Niger	4 311	4 311	100	45	16	5	2	9	4	20	61																				
Nigeria	33 755	33 755	100	62	12	6	2	12	2	4	73																				
Rwanda	4 179	4 284	103	70	7	6	1	4	9	3	77																				
Sao Tome & Principe																															
Senegal	6 437	6 437	100	68	7	4	2	11	7	2	74																				
Seychelles	13	13	100	69	23	0	0	0	8	0	92																				
Sierra Leone	3 735	3 735	100	74	8	6	2	9	2	0	82																				
South Africa	120 977	120 977	100	54	15	7	2	11	6	4	70																				
Swaziland	1 902	1 902	100	20	30	8	2	6	22	11	50																				
Togo	1 608	1 608	100	64	3	10	2	13	2	5	67																				
Togo	20 986	20 986	100	31	39	7	0	17	5	0	70																				
Uganda	25 823	25 823	100	78	3	10	0	4	5	0	81																				
UR Tanzania	17 247	17 247	100	76	7	8	1	2	6	0	83																				
Zambia	14 581	14 581	100	50	5	12	2	8	9	15	54																				
Zimbabwe	537 591	538 641	100	62	12	7	1	9	5	3	74																				
<b>AFR</b>	<b>537 591</b>	<b>538 641</b>	<b>100</b>	<b>62</b>	<b>12</b>	<b>7</b>	<b>1</b>	<b>9</b>	<b>5</b>	<b>3</b>	<b>74</b>	<b>13 440</b>	<b>12 912</b>	<b>96</b>	<b>35</b>	<b>34</b>	<b>6</b>	<b>2</b>	<b>11</b>	<b>3</b>	<b>8</b>	<b>69</b>	<b>96 827</b>	<b>36</b>	<b>24</b>	<b>11</b>	<b>3</b>	<b>13</b>	<b>6</b>	<b>8</b>	<b>60</b>

Not eval. indicates not evaluated (percentage of registered cases for which outcomes were not recorded); success, sum of cured and completed, cases registered in 2004, 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 2004 is used, or the sum of outcomes if the latter is greater. Data can be downloaded from [www.who.int/tb](http://www.who.int/tb)

Table A2.6 Re-treatment outcomes, Africa, 2004 cohort

	Relapse, DOTS % of cohort						After failure, DOTS % of cohort						After default, DOTS % of cohort														
	Number regist'd	Compl- eted	Died	Failed	Default	Trans- ferred	Not eval.	Success	Number regist'd	Compl- eted	Died	Failed	Default	Trans- ferred	Not eval.	Success	Number regist'd	Compl- eted	Died	Failed	Default	Trans- ferred	Not eval.	Success			
Algeria	552	69	15	4	3	6	4	0	84	46	57	11	4	7	11	11	0	67	91	59	19	1	2	16	2	0	78
Angola																											
Benin																											
Botswana	119	63	4	12	7	9	5	0	67	99	63	3	5	11	11	1	6	66	56	38	9	5	0	0	5	43	46
Burkina Faso																											
Burundi																											
Cameroon	735	46	9	7	3	23	2	10	55	103	28	6	6	6	34	0	20	34	479	35	8	4	3	27	1	23	43
Cape Verde																											
Central African Republic	80	78	20	3	0	0	0	0	98	10	80	0	0	0	0	0	20	80	20	90	0	0	0	0	0	10	90
Chad	96	21	56	1	10	11	0	0	77	24	50	8	17	4	8	13	0	58	50	18	40	10	4	24	4	0	58
Comoros																											
Congo	85	53	5	2	1	18	21	0	58	7	57	0	0	0	0	43	57		16	44	31	0	0	0	0	25	75
Côte d'Ivoire	603	44	5	10	9	18	7	7	49																		
DR Congo	3 586	72	4	9	3	4	4	4	76	925	48	3	9	11	7	6	15	51	982	64	7	8	4	10	5	2	71
Equatorial Guinea																											
Eritrea																											
Ethiopia	116	9	26	9	1	47	9	34		37	3	11	3	5	3	76	14		77	13	16	4	22	0	45	29	
Gabon																											
Gambia	62	61	10	6	2	0	21	0	71	14	64	0	0	0	0	36	64		44	73	9	14	0	0	0	5	82
Ghana	542	34	14	8	1	4	4	36	47																		
Guinea	237	51	8	17	5	12	7	0	59	59	29	15	22	10	14	10	0	44	128	41	16	13	6	16	9	0	57
Guinea-Bissau	93	51	22	11	0	9	9	0	72																		
Kenya	3 646	66	10	11	1	7	5	0	76																		
Lesotho																											
Liberia	27	89	7	0	0	0	4	0	96	21	33	24	38	5	0	0	33		39	85	3	3	10	0	0	87	
Madagascar																											
Malawi	1 168	71	2	21	1	4	1	0	73																		
Mali	202	60	10	10	5	9	6	0	70	56	50	5	9	14	16	5	0	55	83	52	6	12	5	20	5	0	58
Mauritania	192	2	2	0	1	3	1	92	4																		
Mauritius	4	75				25	0	75												2	100					0	100
Mozambique																											
Namibia	1 114	29	25	16	4	20	7	0	53																		
Niger																											
Nigeria																											
Rwanda																											
Sao Tome & Principe																											
Senegal																											
Seychelles	0	0	0	0	0	0	0	0	0	6	100	0	0	0	0	0	100		0	0	0	0	0	0	0	0	
Sierra Leone	123	69	8	9	6	7	1	0	77	54	69	9	11	4	7	0	0	78	99	56	10	10	3	18	3	0	66
South Africa	26 318	44	16	11	2	15	6	6	60	2 624	34	13	10	6	14	7	16	48	5 660	32	16	10	3	28	6	5	49
Swaziland	656	2	6	4	1	1	5	80	8	75	0	5	3	5	3	84	0		119	2	4	0	2	1	92	6	
Togo	42	64	0	17	0	10	0	10	64	28	68	0	4	7	0	21	68		60	55	3	10	3	25	3	0	58
Uganda	1 592	30	38	8	1	12	5	7	68																		
UR Tanzania	1 778	74	3	14	1	4	4	0	77	161	60	2	16	4	3	7	7	62	253	53	17	9	0	15	5	0	70
Zambia	2 248	71	7	13	2	3	4	0	78																		
Zimbabwe	1 975	34	4	11	12	3	5	30	38																		
<b>AFR</b>	<b>47 961</b>	<b>49</b>	<b>13</b>	<b>11</b>	<b>3</b>	<b>11</b>	<b>6</b>	<b>7</b>	<b>62</b>	<b>4 349</b>	<b>39</b>	<b>10</b>	<b>10</b>	<b>7</b>	<b>12</b>	<b>6</b>	<b>16</b>	<b>49</b>	<b>8 283</b>	<b>38</b>	<b>14</b>	<b>9</b>	<b>3</b>	<b>24</b>	<b>5</b>	<b>7</b>	<b>52</b>

Not eval. indicates not evaluated (percentage of registered cases for which outcomes were not recorded); success, sum of cured and completed; cases regist'd, the denominator for calculating treatment outcomes. The number of cases registered for treatment in 2004 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 A2.10 Number of TB cases notified, Africa, 1980-2005

	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
Algeria	2 702	13 916	13 681	13 681	13 133	13 832	12 917	11 212	11 325	11 039	11 607	11 332	11 428	13 345	13 345	13 507	15 329	16 522	15 324	16 647	18 572	18 250	18 934	19 730	19 009	21 336
Angola	10 117	7 501	7 911	6 625	10 153	8 633	9 363	8 510	8 184	9 587	10 271	11 334	11 272	8 269	7 157	5 143	15 424	15 066	14 296	14 235	16 062	21 713	29 996	36 079	35 437	37 175
Benin	1 835	1 862	1 793	1 804	1 913	2 041	2 162	1 901	2 027	1 941	2 084	2 162	2 420	2 340	2 119	2 332	2 284	2 255	2 316	2 552	2 706	2 630	2 530	2 932	3 116	3 270
Botswana	2 662	2 605	2 705	2 883	3 101	2 706	2 627	3 173	2 740	2 532	2 938	3 274	4 179	4 654	4 756	5 665	6 636	7 287	7 960	8 647	9 292	9 618	10 204	9 862	10 131	10 058
Burkina Faso	2 577	2 391	2 265	3 081	3 777	4 547	1 407	1 018	1 407	1 616	1 497	1 488	1 443	1 443	861	2 512	1 814	1 643	2 074	2 310	2 310	2 406	2 376	2 620	2 878	3 484
Burundi	789	643	951	1 053	1 344	2 317	2 569	2 739	3 745	4 608	4 575	4 883	4 464	4 677	3 840	3 326	3 796	5 335	6 546	6 365	6 478	6 371	6 871	7 164	6 685	
Cameroun	2 434	2 236	3 765	3 445	3 339	3 393	2 738	3 878	4 982	5 521	5 892	6 814	6 803	7 064	7 312	3 292	3 049	3 952	5 022	7 660	5 251	11 307	11 057	15 964	17 655	21 489
Cape Verde	516	344	393	230	285	259	276	285	276	210	221	2045				303	179	196	205	503	291	195	316	294	292	
Central African Republic	651	758	1 475	1 686	468	520	779	499	814	64	2124	2 045				3 339	3 623	4 489	4 875	5 003	2 950	4 637	3 932	3 908	3 210	
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	5 077	4 679	4 946	6 311		
Comoros	742	1 214	3 716	4 156	2 776	2 648	3 120	3 473	3 878	4 363	5 91	618	1 179	1 976	2 992	3 615	132	138	132	153	120	138	111	73	89	111
Côte d'Ivoire	4 197	4 418	5 000	6 000	6 062	5 729	6 072	6 422	6 556	6 982	7 841	8 021	9 093	9 563	14 000	11 988	13 104	13 802	14 841	15 056	12 943	16 533	16 071	17 739	20 084	19 681
DR Congo	5 122	3 051	9 905	13 021	20 415	26 082	27 685	27 096	30 272	31 321	21 131	33 782	37 680	36 647	38 477	42 819	45 999	44 783	59 917	59 531	60 627	66 748	70 625	84 687	93 336	97 075
Equatorial Guinea					181	17	1	11	1	157	280	331	282	309	356	306	319	366	416						536	
Eritrea	40 096	42 423	52 403	56 824	65 045	71 731	80 846	85 867	95 521	80 795	88 634	60 006	60 006	926	972	1 034	1 115	951	1 434	1 380	1 598	2 504	2 086	2 208	2 588	2 512
Ethiopia	865	796	761	752	654	855	769	864	721	912	917	906	926													
Gabon	239	58																								
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	10 386	10 933	11 923	11 723	11 891	11 827	12 124
Ghana	1 884	1 469	832	1 203	1 128	1 128	1 214	1 214	1 740	1 869	1 888	2 267	2 941	3 167	3 300	3 523	4 357	4 439	4 768	5 171	5 440	5 874	6 199	6 570	7 423	6 863
Guinea-Bissau	645	465	205	376	368	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	1 500	1 751	3 419	2 511	4 337
Kenya	11 049	10 027	11 966	11 966	10 480	10 022	10 515	10 597	12 592	11 788	12 320	14 599	20 451	22 930	28 142	34 980	39 738	49 936	57 266	64 159	73 017	80 183	91 522	100 573	102 680	
Lesotho	4 082	3 830	4 932	3 443	2 923	2 927	21	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	10 802	
Liberia	774	1 002	835	885	885	425	232	384	894																	
Madagascar	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	12 718	12 718	14 661	14 661	22 674	24 396	23 604	26 094	24 595	25 841	27 030
Malawi	4 758	5 033	4 411	4 707	4 404	5 335	6 260	7 581	8 359	9 431	12 395	14 743	14 237	17 105	19 496	19 155	20 630	20 676	22 674	24 396	23 604	26 094	24 595	25 841	27 030	
Mali	839	933	1 87	532	1 872	1 851	2 534	2 578	1 626	2 933	2 631	3 113	3 204	3 075	3 087	3 087	3 655	5 022	4 142	4 466	4 216	4 457	4 496	4 525	4 697	
Mauritania	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	3 849	3 837	3 768	3 617	3 649	3 067						
Mauritius	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
Mozambique	7 457	6 984	5 787	5 937	5 204	5 645	8 263	10 996	13 863	15 958	15 996	16 609	15 085	16 588	17 158	17 882	18 443	18 842	19 672	20 574	21 158	22 098	25 544	28 602	31 150	
Namibia	717	2 871	754	673	665	698	570	556	631	608	5 200	2 500	1 756	5 500	5 000	1 540	9 625	9 947	11 147	10 035	10 799	13 064	13 282	14 490	15 026	
Niger	9 877	10 638	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	44 184	57 246	
Nigeria	1 495	1 386	1 364	1 419	1 327	2 460	3 287	4 145	4 741	6 387	3 200	3 054	3 423	3 054	3 535	4 710	6 112	6 483	6 093	5 473	6 011	6 812	6 487	7 220		
Rwanda	131	37	40	59	49	40	8	55	13																	
Sao Tome & Principe	2 014	2 573	1 612	2 417	1 065	927	6 145	5 611	5 965	4 977	6 781	7 408	6 941	6 913	6 913	7 561	8 525	8 322	8 475	7 488	8 508	8 554	8 366	9 380	9 098	
Senegal	16	0	16	16	10	10	24	14	10	6	41	5														
Seychelles	750	847	889	293	816	865	358	368	130	120	632	1 466	1 665	2 691	2 564	3 241	3 241	3 160	3 270	3 160	3 760	4 673	4 793	5 289	5 710	
Sierra Leone	55 310	59 943	64 115	62 586	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	148 164	151 239	148 257	215 120	227 320	267 290	
South Africa	143	3 059	1 955																							
Swaziland	208	126	204	174	343	745	596	1 184	1 071	940	1 324	1 243	1 223	1 005	1 137	1 520	1 364	1 623	1 250	1 249	1 409	1 645	1 815	2 212	2 537	
Togo	1 058	1 170	497	2 029	1 392	1 464	1 464	1 464	1 045	1 045	14 740	19 016	20 662	21 579	26 994	25 316	27 196	28 349	29 228	31 597	30 372	36 829	40 695	41 579	43 721	
Uganda	11 483	12 122	11 748	11 753	12 092	13 698	15 452	16 920	18 206	19 262	22 249	25 210	28 462	31 460	34 799	39 847	44 416	46 433	51 231	52 437	54 442	61 603	60 306	61 579	62 512	
UR Tanzania	5 321	6 162	6 525	6 860	7 272	8 246	8 716	10 025	12 876	14 266	16 863	23 373	25 448	30 496	35 222	35 958	40 417	45 240	49 806	46 259	54 220	53 932	54 106	49 576		
Zambia	4 057	4 051	4 577	3 881	5 694	4 759	5 233	5 848	6 002	6 822	9 132	11 710	16 237	20 125	23 959	30 831	35 735	43 762	47 077	50 138	50 855	59 170	53 183	56 162		
Zimbabwe	219 802	224 102	240 263	258 842	264 928	296 627	301 683	333 842	373 550	368 432	418 530	412 414	4													

Table A2.11 Case notification rates, Africa, 1980–2005

	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
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
Angola	129	93	94	76	113	93	98	87	82	94	98	103	101	71	60	42	122	117	108	105	116	153	205	240	229	233
Benin	49	49	45	44	45	46	48	41	42	39	40	40	43	40	35	38	36	34	34	37	38	37	37	37	38	39
Botswana	254	240	241	249	259	219	206	242	203	182	206	223	278	302	301	351	402	433	465	498	530	545	576	557	573	570
Burkina Faso	39	36	33	44	12	62	13	18	12	20	18	17	16	16	9	26	18	18	19	21	20	21	20	21	22	26
Burundi	19	15	22	23	40	47	51	53	70	83	81	84	76	78	63	54	61	85	104	100	98	93	98	98	98	87
Cameroun	28	25	41	36	34	34	21	36	45	49	51	57	55	56	56	25	22	28	35	53	35	75	72	101	110	132
Cape Verde	178	117	131	75	91	81	86	81	60	62	62	66	66	47	47	76	44	47	48	63	63	41	65	59	59	58
Central African Republic	28	32	60	66	18	19	28	16	28	2	71	66	66	104	125	98	104	125	134	135	66	124	100	98	98	79
Chad	5	6	3	40	28	28	24	20	52	44	44	47	42	43	48	45	27	29	36	59	59	58	51	52	65	65
Comoros	41	65	193	210	136	125	143	154	167	181	24	24	45	72	106	124	148	110	120	151	269	274	270	206	251	246
Côte d'Ivoire	50	50	54	62	60	55	56	56	56	57	62	61	67	69	98	81	86	89	93	92	77	97	93	101	112	108
DR Congo	18	11	33	43	65	81	83	79	86	86	86	86	93	87	88	95	100	95	123	122	121	130	134	156	167	169
Equatorial Guinea						61	5	0	6	45	74	92	71	82	92	77	78	88	97							109
Eritrea	108	112	134	140	155	165	180	186	200	164	174	114	110	111	171	43	68	93	107	108	133	135	153	159	163	160
Ethiopia	124	111	103	98	83	105	92	100	80	98	96	92	91	92	95	100	83	121	114	128	193	158	165	190	182	182
Gabon	37	9																								
Gambia	46	35	36	21	15	24	28	41	36	40	41	45	43	45	45	47	56	56	59	63	65	68	70	73	81	73
Ghana	38	29	16	23	24	20	21	30	31	32	35	44	45	45	45	47	56	56	59	63	65	68	70	73	81	73
Guinea-Bissau	81	57	25	44	42	59	144	80	81	138	115	119	98	139	143	136	137	115	65	88	93	108	110	119	112	112
Kenya	68	59	66	66	53	49	50	50	50	56	50	51	58	79	87	103	125	139	167	191	209	233	250	280	301	300
Lesotho	316	289	362	246	203	199	1	15	151	157	159	186	204	205	259	306	327	372	444	482	545	562	667	634	602	602
Liberia	41	52	42	43	36	20	11	18	41																	105
Madagascar	100	80	37	36	85	31	35	36	39	46	52	49	64	75	79	155	88	96	96	218	205	221	204	209	214	198
Malawi	77	79	68	70	63	74	82	93	97	104	131	152	145	173	196	189	200	195	208	218	205	221	204	209	214	198
Mali	12	13	3	7	24	21	23	31	30	19	33	29	33	33	31	30	35	47	38	39	36	36	35	34	35	35
Mauritania	471	572	138	135	225	243	122	196	203	204	260	147	203	183	167	162	156	145	142	116	116	112	111	111	111	110
Mauritius	14	16	12	15	12	11	12	11	11	12	11	13	12	15	13	12	10	11	10	13	13	10	11	11	11	11
Mozambique	62	57	46	46	40	43	62	83	105	120	118	121	106	112	112	113	113	113	115	117	118	121	137	150	160	168
Namibia						433	380	298	220	276	191	172	117	354	79	93	565	567	617	542	570	677	678	730	748	735
Niger	12	45	11	10	9	10	8	7	8	7	61															
Nigeria	14	15	15	14	15	19	17	24	30	15	22	21	15	12	8	13	14	15	18	21	22	38	31	35	44	46
Rwanda	29	26	24	24	24	22	39	49	60	67	90	47														
Sao Tome & Principe	139	38	41	59	48	39	8	51	12																	
Senegal	34	42	26	37	16	13	84	75	77	62	83	88	79	78	83	91	87	86	74	82	81	77	84	80	84	84
Seychelles	25	0	24	24	15	15	35	20	14	8	57															
Sierra Leone	23	26	26	9	23	24	10	3	3																	
South Africa	189	200	208	198	194	179	162	166	174	189	218	205	213	225	221	176	256	289	321	329	332	321	462	484	566	570
Swaziland	7	4	7	6	11	22	17	33	29	24	33	31	29	24	26	34	35	34	25	24	26	29	29	31	37	41
Togo	8	9	4	15	15	9	9	9	19	6	83	103	109	110	133	121	126	128	128	134	125	147	157	156	157	142
Uganda	61	62	58	56	62	67	71	74	76	85	93	101	108	116	129	140	143	154	154	154	147	174	167	167	166	159
UR Tanzania	88	98	101	103	105	115	118	131	163	175	201	271	287	335	378	376	413	431	465	424	465	424	488	478	471	425
Zambia	55	53	58	47	67	54	57	61	61	67	86	108	146	177	206	261	297	359	382	402	404	443	463	413	434	388
Zimbabwe																										
<b>AFR</b>	<b>58</b>	<b>58</b>	<b>60</b>	<b>63</b>	<b>62</b>	<b>68</b>	<b>67</b>	<b>72</b>	<b>78</b>	<b>74</b>	<b>82</b>	<b>79</b>	<b>80</b>	<b>76</b>	<b>97</b>	<b>86</b>	<b>98</b>	<b>98</b>	<b>110</b>	<b>116</b>	<b>119</b>	<b>128</b>	<b>146</b>	<b>153</b>	<b>163</b>	<b>161</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

## Gambia

TB/HIV collaboration began in August 2005. From October 2005 to August 2006, a total of 370 TB patients were registered in various institutions throughout the country (57 were found to be HIV-positive).

## Ghana

First-line TB drug stock-outs occurred in a small number of peripheral health units (9 out of 110 units), where staff at regional level postponed the collection of drugs from central level.

## Madagascar

A cross-sectional national seroprevalence survey of HIV infection was carried out among TB patients for a period of 6 months from January 2005. Patients were from a randomly selected sample of 61 of 205 clinics. 1759 TB patients were tested; 16 were found to be HIV-positive.

## Malawi

The 4156 patients who started ART in 2005 are not a subset of the number of TB cases who were tested and found positive in 2005; they began ART because they had active TB or a past history of TB.

## Mozambique

While DOTS is available in all administrative areas, it is estimated that only 45–50% 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. Of new smear-positive cases notified in 2005 (17 877), 266 were patients aged under 15 years, and 16 508 were patients aged 15 years or more.

## Namibia

In 2005, only 16% of the patients started on treatment for TB were tested for HIV, and 58% of these patients were HIV-positive. In 2006, 24% of TB patients were tested for HIV; preliminary data available in January 2007 suggest that 70% were HIV-positive.