South Africa

The case detection rate has remained above target since 2003; however, treatment success rates have remained low, with high default and death rates. South Africa reports the highest number of confirmed MDR-TB and XDR-TB cases in the region. Collaborative TB/HIV activities are being scaled up across the country. In 2007, almost 40% of notified TB patients were tested for HIV, and 35% and 67% of HIV-positive TB patients were provided with ART and CPT respectively. New approaches to trace treatment defaulters are being tested in selected areas. Considerable efforts have been made to estimate the funding requirements for TB control, although decentralization of planning and budgeting to provinces makes this challenging. A comprehensive costing study aimed at improving the accuracy of current estimates of funding needs and funding gaps is planned for 2009.

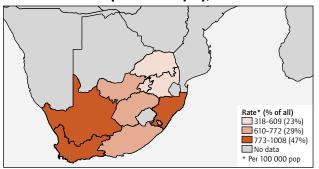
SURVEILLANCE AND EPIDEMIOLOGY

Population (thousands) ^a	48 577	
Estimates of epidemiological burden, 2007	ALL	IN HIV+ PEOPLE
Incidence		
All forms of TB		
(thousands of new cases per year)	461	336
All forms of TB		
(new cases per 100 000 pop∕year)	948	691
Rate of change in incidence rate (%), 2006-2007	0.9	0.9
New ss+ cases (thousands of new cases per year)	174	117
New ss+ cases (per 100 000 pop/year)	358	242
HIV+ incident TB cases (% of all TB cases)	73	-
Prevalence		
All forms of TB (thousands of cases)	336	168
All forms of TB (cases per 100 000 pop)	692	345
2015 target for prevalence		
(cases per 100 000 pop)	384	-
Mortality		
All forms of TB (thousands of deaths per year)	112	94
All forms of TB (deaths per 100 000 pop/year)	230	193
2015 target for mortality		
(deaths per 100 000 pop/year)	39	_
Multidrug-resistant TB (MDR-TB)		

MDR-TB among all new TB cases (%)

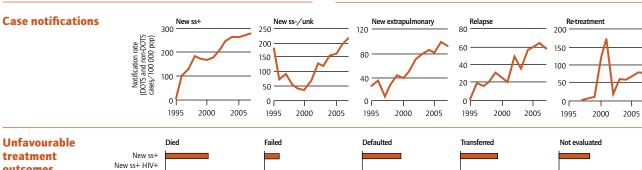
MDR-TB among previously treated TB cases (%)

TB notification rate (new and relapse), 2007

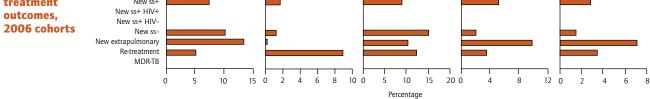


Total notifications, 2007

Notified new and relapse cases (thousands) Notified new and relapse cases (per 100 000 pop/year)	315 649
Notified new ss+ cases (thousands)	136
Notified new ss+ cases (per 100 000 pop/year)	279
as % of new pulmonary cases	56
sex ratio (male/female)	1.2
DOTS case detection rate (% of estimated new ss+)	78
Notified new extrapulmonary cases (thousands)	46
as % of notified new cases	16
Notified new ss+ cases in children (<15 years) (thousands)	4.4
as % of notified new ss+ cases	3.3



1.8 6.7



	2000	2001	2002	2003	2004	2005	2006	2007
DOTS coverage (%)	77	77	98	100	93	94	100	100
Notification rate (new & relapse cases/100 000 pop)	333	322	462	483	562	564	628	649
% notified new & relapse cases reported under DOTS	82	78	99	100	97	96	100	100
Notification rate (new ss+ cases/100 000 pop)	167	182	212	247	266	262	272	279
% notified new ss+ cases reported under DOTS	82	85	99	100	96	96	100	100
Case detection rate (all new cases, %)	43	44	53	53	56	55	60	62
Case detection rate (new ss+ cases, %)	76	70	72	77	78	75	77	78
Treatment success (new ss+ patients, %)	63	61	68	67	69	71	74	_
Re-treatment success (ss+ patients, %)	50	50	53	52	56	58	67	-

Note: notification, case detection and treatment success rates are for the whole country (i.e. DOTS and non-DOTS cases combined).

SOUTH AFRICA

DOTS EXPANSION AND ENHANCEMENT

Descrip	otion of basic manag	Districts	
Numbe	lumber of units (DOTS/total), 2007		53/53
Locati	on of NTP services		
Rural	Primary health care	clinic, district hospital	
Urban	Primary health care	clinic, district hospital	
NTP se	rvices part of genera	l primary health-care network	? Yes
Locati	on where TB diagno:	sed	
Rural	Primary health care	facility, district hospital	
Urban	Primary health care	facility, district hospital	
Diagno	osis free of charge?		Yes (all suspects)
Treatm	ent supervised?		Some patients in all units
	Intensive phase	Health-care worker, commun	ity member, family member
	Continuation phase	e Health-care v	vorker, community member, family member
Catego	ory I regimen		2HRZE/4(HR)
Treatm	ent free of charge		All patients in all units
Extern	al review missions		last: 2003
			next: 2009

Political commitment

National strategic plan?	Yes (2007-2011)
Mechanism for national interagency coordination?	Yes (established 2004)
National Stop TB Partnership?	No (planned 2009)
Financial indicators, 2008	
(see final page for detailed presentation)	%
Government contribution to NTP budget (incl loans)	_
Government contribution to total cost TB control (incl loans) –
	_
Government health spending used for TB control	

US\$NTP budget per capita7.2Total costs for TB control per capita12Funding gap per capita-Government health expenditure per capita (2005)182Total health expenditure per capita (2005)437

Quality-assured bacteriology

National reference laboratory?

Yes

All TB laboratories performing EQA of smear microscopy or DST under the supervision of the National Reference Laboratory

		Smear			C	ulture		DST		
	Number	per 100 000	EQA	% adeq perf	Number	per 5 000 000	Number	per 10 000 000	EQA	% adeq perf
2007	249	0.5	241	93%	15	1.5	10	2.1	10	100%
2008	249	0.5	249	_	18	1.8	10	2.0	10	_

Note: for routine diagnosis, there should be at least one laboratory providing smear microscopy per 100 000 population. To provide culture for diagnosis of paediatric, extrapulmonary and ss./HIV+ TB, as well as DST of re-treatment and failure cases, most countries will need one culture facility per 5 million population and one DST facility per 10 million population. EQA column shows number of laboratories for which EQA was done. Adeq perf; adequate performance for microscopy based on results of EQA.

System for managing drug supplies and laboratory equipment

	Central level			Peripheral level		
	2005	2006	2007	2005	2006	2007
Stock-outs of laboratory supplies?	-	No	No	-	No	No
Stock-outs of first-line anti-TB drugs?	No	No	Yes	No	All units	No

Monitoring and evaluation system, and impact measurement

NTP publishes annual report?	No	Burden and impact assessment		last	next
% of BMUs reporting to next level in 2007		In-depth analysis of routine surveillance data	Yes	-	2009
Case-finding	100%	Prevalence of disease survey	Yes, sub-national	-	2010
Treatment outcomes	100%	Prevalence of infection survey	No	_	_
		Drug resistance survey	Yes, national	2001-2002	2009
		Mortality survey	No	_	_
		Analysis of vital registration data	Yes	2007	2010

MDR-TB, TB/HIV AND OTHER CHALLENGES

	2005	2006	2007	
Multidrug-resistant TB (MDR-TB)	Nun	iber (% of estimated ss+ MD	R-TB)	
Estimated incidence of ss+ MDR cases	10 312	10 553	10 708	
Diagnosed and notified	2000 (19%)	6716 (64%)	7350 (69%)	
Registered for treatment	(-%)	- (-%)	- (-%)	
GLC	0	0	0	
non-GLC	_	-	_	

MDR-TB, TB/HIV AND OTHER CHALLENGES (continued)

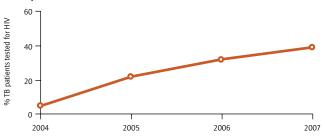
Detection and treatment of HIV in TB patients, 2007					
TB patients for whom the HIV test result was known	136 247				
as % of all notified TB patients	39				
TB patients with positive HIV test	87 764				
as % of all estimated HIV+ TB cases	26				
HIV+ TB patients started or continued on CPT	58 801				
as % of HIV+ TB patients notified	67				
HIV+ TB patients started or continued on ART	31 040				
as % of HIV+ TB patients notified	35				

Screening for TB in HIV-positive patients, 2007

379 672
150 092
40
15 521
4.1
5 642
1.5
-
-
-
_

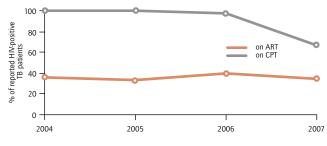
HIV testing for TB patients

The proportion of TB patients tested for HIV continues to increase steadily



CPT and ART for HIV-positive TB patients

The proportion of HIV-positive TB patients receiving CPT fell considerably in 2007



CONTRIBUTING TO HEALTH SYSTEM STRENGTHENING

Practical Approach to Lung Health (PAL), 2007

Number of health-care facilities providing PAL services

ENGAGING ALL CARE PROVIDERS

As % of total number of health-care facilities

22

Public-public and public-private approaches (PPM), 2007							
Number of providers collaborating with the NTP ^c							
Number collaborating	% total no	tified TB					
(total number of providers)	Diagnosed	Treated					
- (-)	-	-					
- (-)	-	-					
	iders collaborating with the N Number collaborating (total number of providers) - (-)	iders collaborating with the NTP ^c Number collaborating % total no (total number of providers) Diagnosed — (-) —					

International Standards for Tuberculosis Care (ISTC)	
ISTC endorsed by professional organizations?	No
ISTC included in medical curriculum?	Yes

EMPOWERING PEOPLE WITH TB, AND COMMUNITIES

Advocacy, communication and social mobilization (ACSM)

Community participation in TB care and Patients' Charter

By 2007, community-based care for MDR-TB patients had been introduced in selected districts in the provinces of KwaZulu-Natal and the Western Cape. Community-based care is included within national policy and guidelines, although implementation is variable. No data on use of the Patients' Charter were reported in 2008.

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ENABLING AND PROMOTING RESEARCH

Programme-based operational research, 2007

Operational research budget (% of NTP budget)

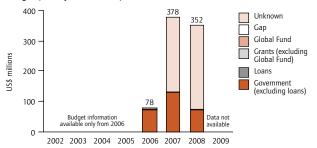
0.1%

SOUTH AFRICA

FINANCING

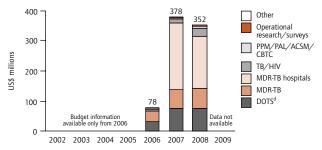
a. NTP budget by source of funding

Substantial increase in funding needs for 2007-2008; without complete information from provinces, sources of funding for a large part of the budget (mostly for MDR-TB) are unknown



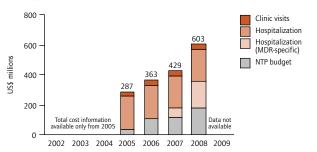
c. NTP budget by line item

Increased budget is mainly for MDR-TB, a large part of which is for the new hospital bed capacity required for MDR/XDR-TB patients



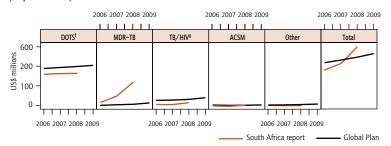
e. Total TB control costs by line item¹

Estimated cost of hospitalization is based on 8112 dedicated TB beds for new TB patients; cost for hospitalization (MDR-specific) covers new bed capacity required to hospitalize patients for 6 months, and is mostly unfunded



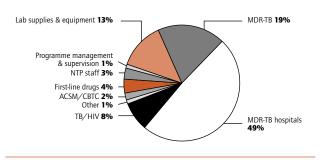
g. Global Plan compared to country reports^e

Country assessment of funding required for DOTS and MDR-TB is higher than the estimates in the Global Plan; for MDR-TB, this reflects current national policy that MDR/XDR-TB patients should be hospitalized for at least 6 months, and higher projections of patients to be treated



b. NTP budget line items in 2008

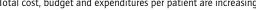
Share of budget for MDR-TB highest among HBCs

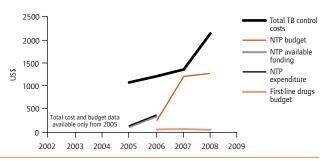


d. NTP funding gap by line item

Data on the funding available for TB control in South Africa are currently incomplete due to difficulties in compiling information about funding allocations at provincial level. From discussions among WHO, the NTP and staff in the national treasury, it seems likely that funding gaps do exist, especially for MDR/XDR-TB. The NTP is planning to conduct a comprehensive assessment of funding needs and funding gaps in 2009.

f. Per patient costs, budgets and expenditures² Total cost, budget and expenditures per patient are increasing





h. NTP budget and funding gap by Stop TB Strategy component (US\$ millions)

	2009 BUDGET	GAP
DOTS expansion and enhancement		
TB/HIV, MDR-TB and other challenges		
Health system strengthening	DATA NOT	
Engage all care providers	AVAILABLE	
People with TB, and communities		
Research and surveys		
Other		

SOURCES, METHODS AND ABBREVIATIONS

Please see footnotes page 169.

- Total TB control costs for 2005-2007 are based on expenditure, whereas those for 2008 are based on budgets. Estimates of the costs of clinic visits and hospitalization are WHO estimates based on data provided by the NTP and from other sources. See Methods for further details
- NTP available funding for 2005-2006 is based on the amount of funding actually received, using retrospective data.

- indicates not available or not applicable; pop, population; ss+, sputum smear-positive; ss-, sputum smear-negative pulmonary; unk, pulmonary - sputum smear not done or result unknown.