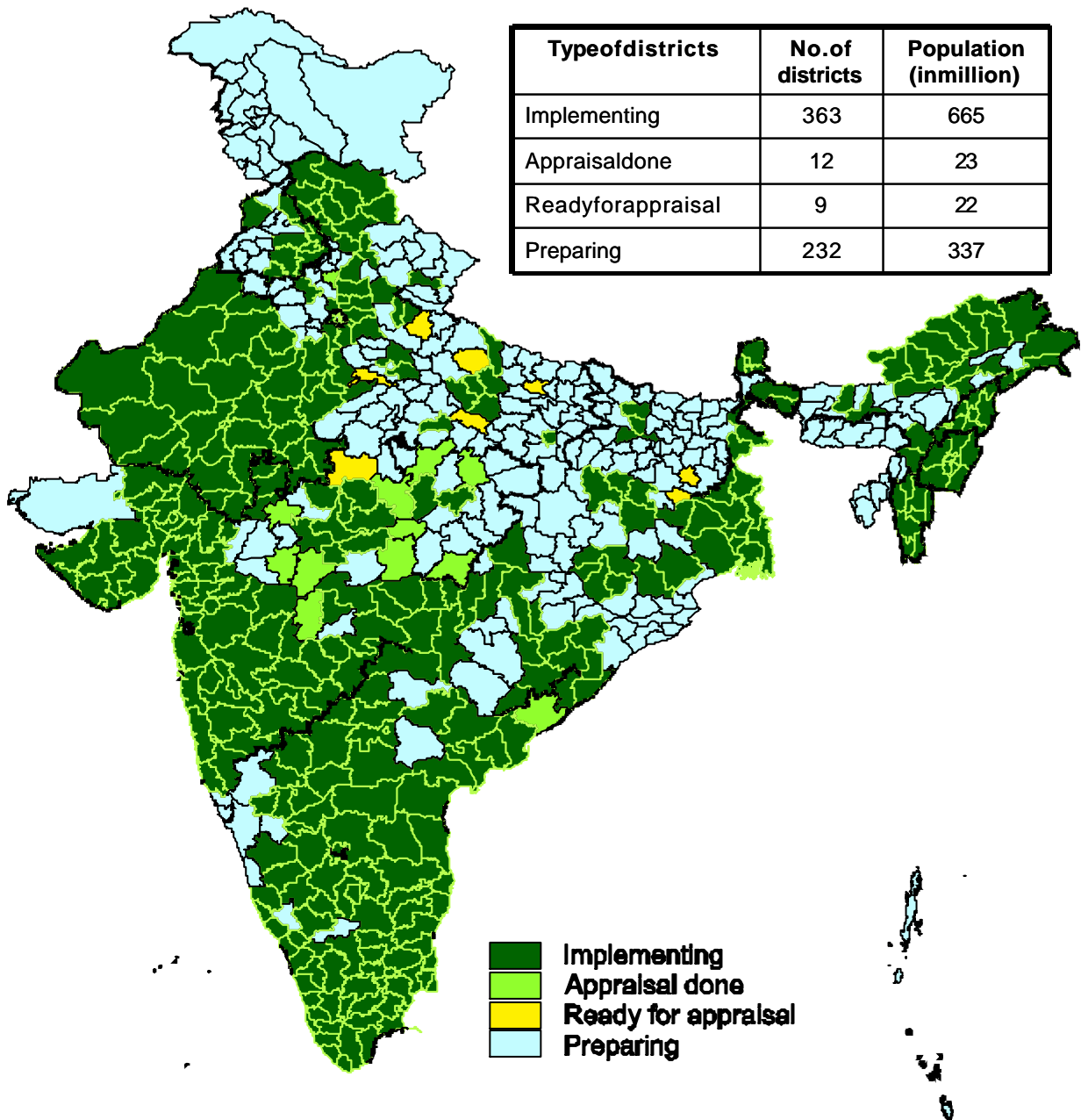


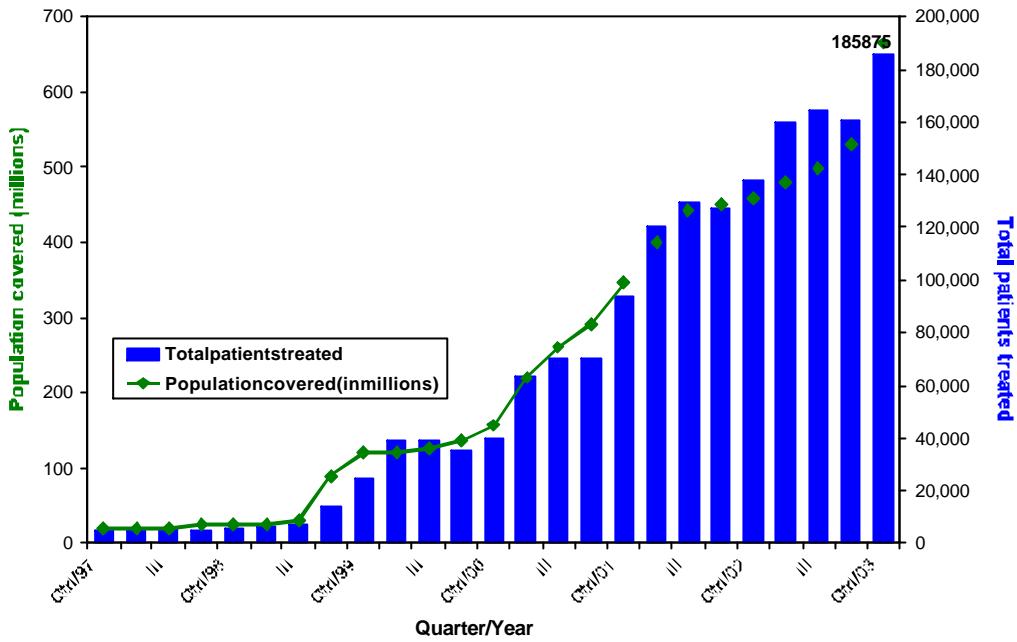
RNTCP Performance Report, India

First Quarter, 2003

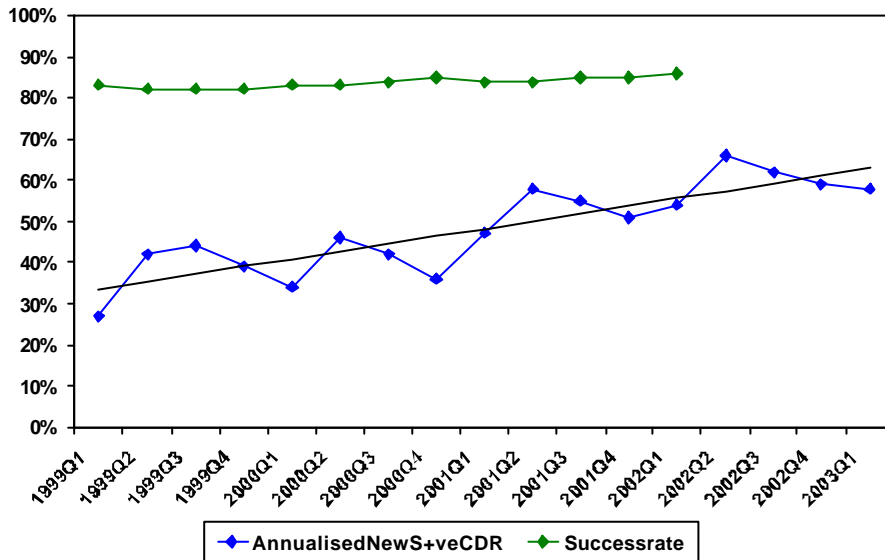
District-wise RNTCP implementation status



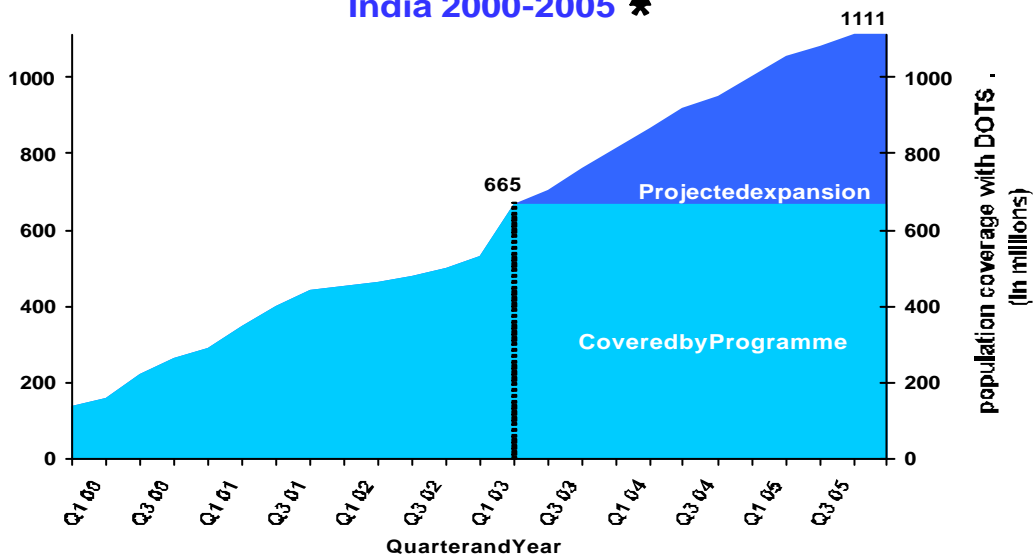
Population in India covered under DOTS and total tuberculosis patients put on treatment each quarter *



India: Annualized new smear positive case detection rate and success rate, 1st quarter 1999 to 1st quarter 2003 *



Multiyear DOTS expansion plan India 2000-2005 *



All figures and data in this report use standard GOI Census Bureau methodology to project the 2003 population

* Projected population of 2003, based on 2001 census is used

RNTCP/DOTS Achievements in 1st quarter 2003

The Revised National TB Control Programme's recent progress in DOT expansion has been very encouraging. As per the WHO Global TB Report 2003, 2/3rd of the additional new sputum positive cases reported under DOTS in 2001, were found in India. In 2002, over 620,000 cases were placed on treatment of which nearly 250,000 were highly infectious new smear positive cases. RNTCP's implementation of DOTS in India is playing a major role in global DOTS expansion. On a technical note, please be aware that for the first time since the 2001 census this report is based on the projected population for 2003 using standard government of India methodology. Some of the major achievements during 1st Qtr 2003 are presented below:

Expansion of RNTCP

The expansion of DOTS coverage during the quarter (Jan-March 03) has been remarkable. The coverage has increased 135 million in three months from 530 million to 665 million population. The number of districts (implementing units) has increased 26% from 287 to 363 - an addition of 76 implementing units in the quarter. Additionally, 13 more districts representing 31.7 million population have been appraised and are ready for RNTCP service delivery.

RNTCP Performance

More than 60,000 patients are now being placed on treatment each month. During the first quarter of 2002, the Programme treatment success rate is 86% and cure rate is 85% among the new smear positives. The sputum conversion rate among the new sputum positives registered in previous quarter is 91% of patients. Ensuring directly observed treatment plays a key role in ensuring that the maximum number of patients are successfully treated under the Programme.

Involvement of other sectors

- Regular interaction with NGOs is ensured through meetings. For example, the GoAP in conjunction with CTD and major NGOs in the State held a meeting at Hyderabad during the first quarter.
- RNTCP has also moved forward on working with the medical colleges to ensure that they become active participants in the historic struggle to implement DOTS. The Southern and Northern zonal workshops for involvement of medical colleges in RNTCP were held in Vellore and Chandigarh during this quarter.

TB-HIV Coordination

Two review meetings on HIV/TB coordination were held at NACO to discuss ongoing collaborations and future plans for scaling up of RNTCP-NACO coordination to rest of the country in the phased manner.

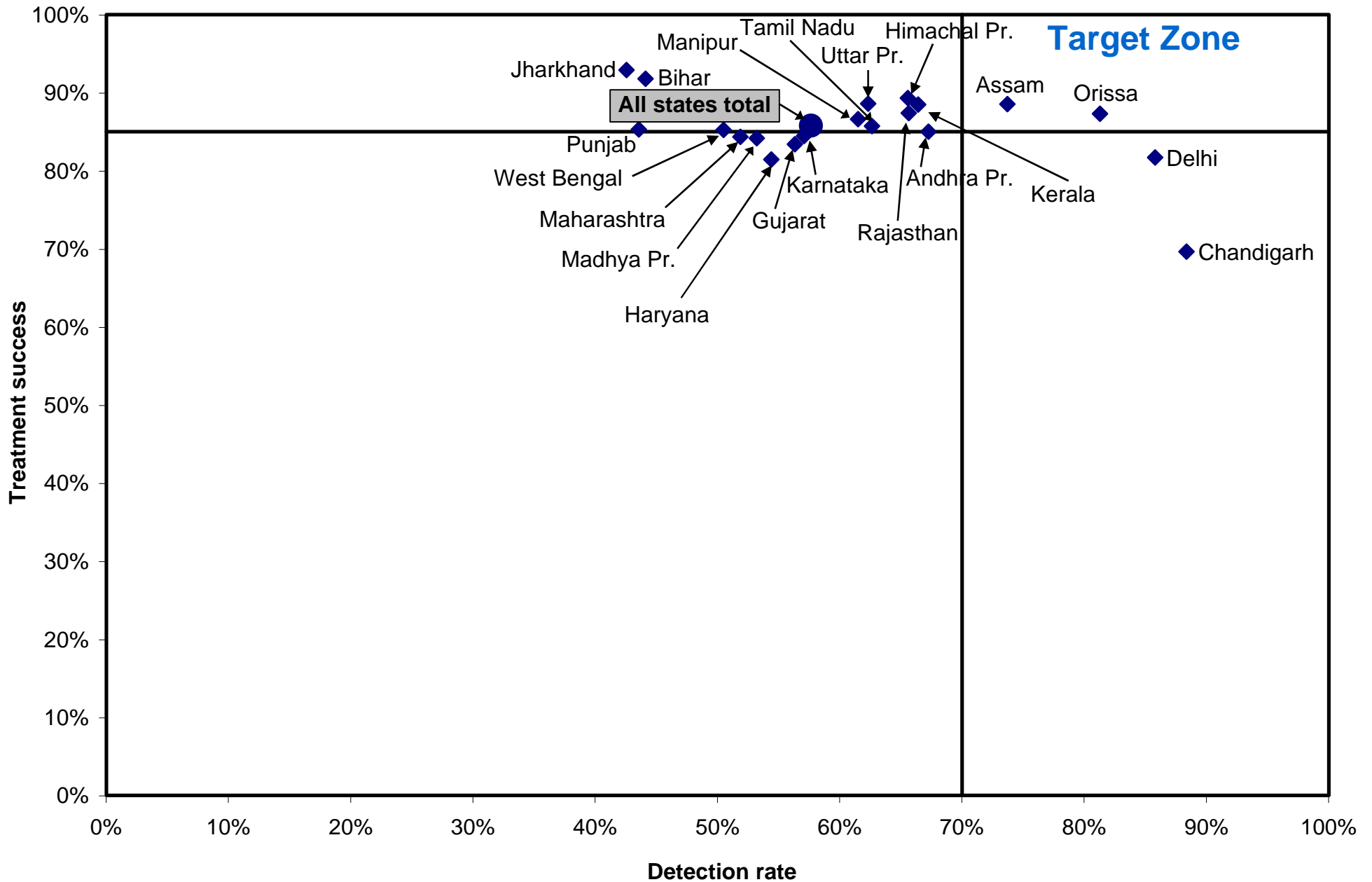
Monitoring of the programme

- Review meetings for the evaluation of the programme have been conducted in the states. Additionally, central level review meetings with STOs and DTO's were held in Delhi. Field visits by CTD staff were made to states and districts.
- Each state has now been tasked to perform internal evaluation on a district level. Several States like Kerala, Delhi, Haryana, Himachal Pradesh and Gujarat completed their evaluation during the first quarter. The quality of services is assessed through randomly selected districts and through a rigorous methodology that involves direct patient interviews.

RNTCP has accomplished a great deal over the past few years. This has been achieved through a collaborative effort that ranges from the individual patient in the most remote community to the technical inputs from international level. However, great challenges lie ahead for the Programme and a collective effort will be needed to ensure that RNTCP prevails in its ambitious goal to control TB in India.

Dr. LS Chauhan, DDG (TB),
Directorate General of Health Services, MoHFW

Case-detection and treatment success rates in RNTCP areas for first quarter 2003/2002



**Performance of RNTCP Case Detection (2003, first quarter), Smear Conversion (2002, fourth quarter),
and Treatment Outcomes (2002, first quarter)**

State	Population (in lakh) *	Total no. of districts/ DTCs	No. of districts / DTCs implementing RNTCP	Outpatients examined No (%)	Smear positive patients examined No (%)	Percentage smear positive patients living in the district placed on DOTS	Total patients treated	Annualized total case detection rate †	New smear positive patients treated	Annualized new smear positive case detection rate (%) †	Ratio of new smear negative to new smear positive patients	3 month conversion rate of new smear positive patients	Cure rate of new smear positive patients ††	Success rate of new smear +ve patients ††
Andhra Pradesh	557	23	17	60332 (2.1)	7633 (13)	92%	14318	141	5829	57 (67)	1.0	89%	84%	85%
Arunachal Pradesh	11	6	6	2257 (2.9)	250 (11)	95%	489	175	199	71 (84)	0.8	89%		
Assam	12	23	1	1351 (2.4)	308 (23)	71%	381	126	190	63 (74)	0.4	87%	87%	89%
Bihar	117	37	3	7409 (6.0)	1366 (18)	96%	2363	81	1100	37 (44)	0.7	95%	91%	92%
Chandigarh	9.6	1	1	1992 (2.6)	377 (19)	77%	423	176	181	75 (88)	0.5	87%	68%	70%
Chhatisgarh	94	16	4	6764 (2.6)	1182 (17)	93%	2465	105	885	38 (44)	1.2	87%		
Delhi	149	20	20	28920 (3.1)	5361 (19)	86%	8593	231	2711	73 (86)	0.7	88%	80%	82%
Gujarat	502	27	26	63304 (2.3)	11864 (19)	89%	15925	127	5995	48 (56)	0.7	91%	83%	83%
Haryana	66	19	4	7294 (3.2)	1296 (18)	91%	1844	129	678	46 (54)	0.8	89%	78%	81%
Himachal Pradesh	63	12	12	14405 (2.3)	1997 (14)	93%	3199	204	1183	75 (66)	0.7	92%	88%	89%
Jharkhand	79	22	3	5210 (3.6)	922 (18)	99%	1716	87	717	36 (43)	0.9	97%	92%	93%
Karnataka	445	28	22	61012 (1.8)	7261 (12)	96%	10030	119	4370	49 (57)	0.7	90%	84%	84%
Kerala	324	14	14	49065 (1.7)	3345 (7)	95%	6116	75	2691	33 (66)	0.6	90%	88%	88%
Madhya Pradesh	153	45	13	11844 (2.2)	2188 (18)	88%	3316	128	1253	45 (53)	0.9	88%	83%	84%
Maharashtra	964	48	44	109968 (2.7)	15113 (14)	93%	28786	124	10312	44 (52)	0.9	91%	84%	84%
Manipur	25	9	9	3693 (4.5)	459 (12)	98%	1262	201	387	61 (61)	1.2	91%	84%	87%
Nagaland	19	8	7	1345 (3.5)	262 (19)	75%	298	64	169	36 (43)	0.3	56%		
Orissa	143	30	14	21460 (2.1)	3396 (16)	84%	4991	140	2465	69 (81)	0.6	90%	87%	87%
Punjab	154	17	9	13239 (1.4)	2217 (17)	88%	3101	93	1262	37 (44)	0.6	91%	85%	85%
Rajasthan	594	32	32	79295 (2.6)	15348 (19)	90%	22158	149	8280	56 (66)	0.8	92%	86%	87%
Sikkim	5.7	4	4	1483 (2.8)	208 (14)	96%	335	234	129	90 (106)	0.5	91%	80%	80%
Tamil Nadu	634	29	29	130609 (1.9)	11409 (9)	95%	22565	142	8444	53 (63)	1.0	91%	85%	86%
Uttar Pradesh	492	70	19	48447 (4.6)	7421 (15)	89%	10704	125	4645	53 (62)	0.7	93%	88%	89%
Uttaranchal	20	13	2	2940 (2.1)	328 (11)	96%	384	78	167	34 (40)	0.5	100%		
West Bengal	812	19	18	91236 (2.0)	11953 (13)	91%	20113	102	8555	43 (50)	0.7	90%	85%	85%
Total	6444	572	333	824874 (2.2)	113464 (14)	91%	185875	127	72797	49 (58)	0.8	91%	85%	86%

NR - Not reported till 12th May 2003; Values for grey areas are not expected

* Projected population based on census population of 2001 is used for calculation of case-detection rate. 1 lakh = 100,000 population

† Annualized case detection rate totals based on districts implementing for more than one quarter. Estimated total new smear-positive cases adjusted for available data on Annual Risk of Infection (ARI) for Kerala (estimated new smear positive cases=50/lakh), Himachal Pradesh (estimated new smear positive cases=115/lakh) and Manipur (estimated new smear +ve cases 100 per lakh). For all other states, estimated total new smear-positive cases=85/lakh. Percentage reflects proportion of expected cases detected (e.g. 70% = 60/85 cases per lakh, 70% = 81/115 cases per lakh)

†† Cure rate and success rate are not expected for states that began implementing RNTCP after 1st quarter of 2002

**Performance of RNTCP Case Detection (2003, first quarter), Smear Conversion (2002, fourth quarter),
and Treatment Outcomes (2002, first quarter)**

State	District	Population (in lakh) *	Outpatients examined No (%)	Smear positive patients examined No (%)	Percentage smear positive patients living in the district placed on DOTS	Total patients treated	Annualized total case detection rate †	New smear positive patients treated	Annualized new smear positive case detection rate (%) †	Ratio of new smear negative to new smear positive patients	3 month conversion rate of new smear positive patients §	Cure rate of new smear positive patients ¶	Success rate of new smear positive patients ¶
Andhra Pradesh	Adilabad	25	NR NR	NR NR	NR	NR		NR		NR			
Andhra Pradesh	Anantapur	37	7103 (1.9)	1120 (16)	78%	1327	142	659	71 (83)	0.6	90%	83%	83%
Andhra Pradesh	Chittoor	38	6977 (2.2)	820 (12)	96%	1127	118	514	54 (63)	0.8	86%	72%	75%
Andhra Pradesh	Cuddapah	26	3167 (0.7)	595 (19)	100%	1324	201	595	90 (106)	1.1	89%		
Andhra Pradesh	Guntur	45	7459 (2.0)	916 (12)	72%	1713	152	658	58 (68)	1.3	87%		
Andhra Pradesh	Hyderabad	38	5464 (3.2)	1055 (19)	96%	1323	140	524	55 (65)	0.7	92%	87%	87%
Andhra Pradesh	Krishna	43	NR NR	NR NR	NR	66		26		1.3			
Andhra Pradesh	Mahbubnagar	36	4699 (2.4)	388 (8)	100%	1066	118	388	43 (51)	1.4	78%	80%	80%
Andhra Pradesh	Medak	27	2508 (3.1)	281 (11)	97%	725	106	273	40 (47)	1.1	91%	87%	91%
Andhra Pradesh	Nellore	27	2594 (1.0)	321 (12)	96%	405	59	184	27 (32)	0.4			
Andhra Pradesh	Nizamabad	24	312 (6.9)	55 (18)	100%	54		28		0.7			
Andhra Pradesh	Prakasam	31	5216 (2.9)	510 (10)	100%	1394	178	510	65 (77)	1.6	87%		
Andhra Pradesh	Rangareddi	36	4379 (5.6)	425 (10)	100%	1003	111	386	43 (50)	1.0	93%	89%	89%
Andhra Pradesh	Srikakulam	26	3551 (1.6)	459 (13)	100%	1338	206	459	71 (83)	1.1	93%	86%	90%
Andhra Pradesh	Vizianagaram	23	5337 (2.9)	453 (8)	100%	1074	186	453	79 (93)	1.0	93%	89%	89%
Andhra Pradesh	Warrangal	33	485 (5.5)	98 (20)	100%	192		68		1.1			
Andhra Pradesh	West Godavari	39	949 (9.1)	104 (11)	100%	187		104		0.5			
Arunachal Pradesh	Along	1.1	145 (2.0)	9 (6)	78%	36	136	7	26 (31)	3.4	81%		
Arunachal Pradesh	Bomdila	1.7	402 (4.1)	52 (13)	92%	77	181	42	99 (116)	0.3	87%		
Arunachal Pradesh	Deomali	2.3	315 (2.2)	26 (8)	100%	74	128	19	33 (39)	1.7	91%		
Arunachal Pradesh	Pashighat	1.2	331 (3.0)	58 (18)	100%	102	331	43	139 (164)	1.0	96%		
Arunachal Pradesh	Tezu	2.1	440 (1.9)	44 (10)	95%	103	200	44	86 (101)	0.4	87%		
Arunachal Pradesh	Zero	2.8	624 (4.7)	61 (10)	93%	97	138	44	63 (74)	0.6	92%		
Assam	Dibrugarh	12	1351 (2.4)	308 (23)	71%	381	126	190	63 (74)	0.4	87%	87%	89%
Bihar	Muzaffarpur	39	2038 (7.3)	306 (15)	94%	811	82	254	26 (30)	1.6	94%	91%	91%
Bihar	Patna	50	3567 (4.8)	694 (19)	99%	1029	83	556	45 (53)	0.5	95%	90%	91%
Bihar	Vaishali	29	1804 (9.2)	366 (20)	92%	523	73	290	41 (48)	0.5	97%	93%	93%
Chandigarh	Chandigarh	9.6	1992 (2.6)	377 (19)	77%	423	176	181	75 (88)	0.5	87%	68%	70%
Chhatisgarh	Bilaspur-CG	21	1381 (2.2)	290 (21)	98%	560	109	205	40 (47)	1.1	90%		
Chhatisgarh	Durg	29	2056 (2.7)	324 (16)	90%	751	104	235	32 (38)	1.5	91%		
Chhatisgarh	Raipur	31	2292 (2.5)	398 (17)	93%	785	101	310	40 (47)	1.1	81%		
Chhatisgarh	Rajnandgaon	13	1035 (3.1)	170 (16)	92%	369	111	135	41 (48)	1.2	88%		
Delhi	BJRM Chest Clinic	3.2	976 (2.7)	151 (15)	93%	211	261	83	103 (121)	0.5	86%	80%	80%
Delhi	DDU Chest Clinic	7.5	2034	357 (18)	88%	761	403	212	112 (132)	1.4	88%	63%	68%
Delhi	GTB Chest Clinic	8.6	2179 (3.4)	427 (20)	4%	510	237	145	67 (79)	0.6	87%	77%	77%
Delhi	Gulabi Bagh	9.7	1673 (3.4)	285 (17)	86%	392	162	141	58 (68)	0.5	91%	88%	88%
Delhi	Jhandewalan	5.4	797 (3.5)	149 (19)	91%	260	193	74	55 (65)	0.8	92%	80%	80%
Delhi	Karawal Nagar	9.7	1603	410 (26)	91%	714	294	239	99 (116)	0.4	73%	68%	73%
Delhi	Kingsway	4.3	1192 (2.3)	218 (18)	87%	274	254	88	82 (96)	0.8	95%	91%	91%

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State	District	Population (in lakh) *	Outpatients examined No (%)	Smear positive patients examined No (%)	Percentage smear positive patients living in the district placed on DOTS	Total patients treated	Annualized total case detection rate †	New smear positive patients treated	Annualized new smear positive case detection rate (%) †	Ratio of new smear negative to new smear positive patients	3 month conversion rate of new smear positive patients §	Cure rate of new smear positive patients ¶	Success rate of new smear positive patients ¶
Delhi	LN Chest Clinic	3.2	849 (2.4)	130 (15)	64%	75	93	25	31 (36)	0.6	95%	80%	80%
Delhi	LRS	17	2275 (4.9)	523 (23)	100%	789	183	303	70 (83)	0.4	89%	86%	86%
Delhi	Moti Nagar	5.4	1020 (0.9)	130 (13)	66%	336	249	69	51 (60)	1.4	88%	78%	79%
Delhi	Narela	5.4	1132 (2.2)	119 (11)	94%	234	174	67	50 (59)	1.0	85%	86%	86%
Delhi	NDMC	4.3	1014 (4.1)	175 (17)	82%	179	166	61	57 (67)	0.6	91%	81%	81%
Delhi	NDTC	2.2	575 (3.7)	92 (16)	94%	175	325	37	69 (81)	0.8	88%	84%	84%
Delhi	Nehru Nagar	19	2511 (2.5)	408 (16)	95%	625	129	249	51 (60)	0.5	88%	79%	79%
Delhi	Patparganj	7.5	1719 (1.4)	354 (21)	86%	531	282	172	91 (107)	0.5	88%	86%	87%
Delhi	RK Mission	8.6	1342 (2.3)	282 (21)	94%	396	184	135	63 (74)	0.7	90%	86%	86%
Delhi	RTRM Chest Clinic	4.3	914 (2.3)	152 (17)	96%	218	202	73	68 (80)	0.6	95%	86%	86%
Delhi	SGM Chest Clinic	8.6	2597 (5.0)	474 (18)	89%	1017	472	270	125 (147)	0.9	92%	87%	88%
Delhi	Shahadra	8.6	1855 (5.0)	338 (18)	92%	600	278	167	77 (91)	0.7	92%	76%	81%
Delhi	SPM Marg	5.4	663 (3.0)	187 (28)	88%	296	220	101	75 (88)	0.6	85%	82%	82%
Gujarat	Ahmadabad	24	2243 (3.4)	441 (20)	96%	615	103	218	37 (43)	1.0	90%	84%	84%
Gujarat	AMC	37	7671 (3.2)	1262 (16)	87%	1701	186	497	54 (64)	0.7	91%	83%	83%
Gujarat	Amreli	15	1463 (1.2)	188 (13)	92%	364	100	145	40 (47)	0.6	93%	88%	88%
Gujarat	Anand	19	2400 (4.6)	657 (27)	91%	702	145	325	67 (79)	0.5	89%	81%	81%
Gujarat	Banas Kantha	26	3066 (2.1)	544 (18)	95%	1037	159	315	48 (57)	1.1	92%	84%	84%
Gujarat	Bharuch	20	2042 (1.4)	469 (23)	83%	575	117	277	56 (66)	0.5	79%	58%	65%
Gujarat	Bhavnagar	26	2235 (2.2)	605 (27)	87%	731	114	249	39 (46)	0.7	93%	81%	82%
Gujarat	Dahod	17	2596 (2.4)	485 (19)	83%	753	177	292	69 (81)	0.5	95%	86%	88%
Gujarat	Gandhinagar	14	2194 (2.6)	424 (19)	91%	449	129	204	59 (69)	0.6	96%	84%	84%
Gujarat	Jamnagar	20	2504 (2.7)	360 (14)	95%	534	107	228	46 (54)	0.5	95%	87%	88%
Gujarat	Junagadh	31	3750 (1.4)	532 (14)	91%	798	103	303	39 (46)	0.6	90%	82%	82%
Gujarat	Kheda	21	2011 (2.4)	566 (28)	91%	771	146	304	58 (68)	0.5	91%	87%	87%
Gujarat	Mahesana	19	2662 (2.4)	471 (18)	94%	661	138	291	61 (72)	0.7	93%	88%	88%
Gujarat	Mansa-GJ										88%	88%	88%
Gujarat	Panch Mahals	21	2416 (1.5)	643 (27)	80%	845	160	335	64 (75)	0.7	91%	80%	81%
Gujarat	Patan	12	1950 (2.1)	272 (14)	97%	405		151		1.0			
Gujarat	Rajkot	33	4366 (1.7)	498 (11)	96%	812	99	259	32 (37)	0.8	91%	87%	88%
Gujarat	Sabar Kantha	22	3054 (2.6)	570 (19)	93%	704	130	286	53 (62)	0.6	93%	88%	88%
Gujarat	Surat	16	1767 (2.7)	393 (22)	86%	429	109	199	50 (59)	0.7	90%	80%	81%
Gujarat	Surat Municipal Corp	25	2523 (5.4)	354 (14)	89%	660	104	169	27 (31)	1.3	86%	82%	82%
Gujarat	Surendranagar	16	2423 (3.8)	465 (19)	88%	446	113	157	40 (47)	0.7	94%	88%	88%
Gujarat	The Dangs	1.9	101 (1.5)	25 (25)	75%	21		12		0.5			
Gujarat	Vadodara	15	1403 (2.8)	374 (27)	86%	431	116	194	52 (62)	0.6	88%	77%	79%
Gujarat	Vadodara Corp	14	1998 (3.0)	448 (22)	96%	373	110	114	34 (39)	1.1	92%	80%	80%
Gujarat	Valsad	27	3017 (2.3)	546 (18)	79%	681	99	290	42 (50)	0.5	88%	79%	79%
Gujarat	Vyara(Surat)	11	1449 (2.4)	272 (19)	91%	427	156	181	66 (78)	0.8	91%	83%	83%

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State	District	Population (in lakh) *	Outpatients examined No (%)	Smear positive patients examined No (%)	Percentage smear positive patients living in the district placed on DOTS	Total patients treated	Annualized total case detection rate †	New smear positive patients treated	Annualized new smear positive case detection rate (%) †	Ratio of new smear negative to new smear positive patients	3 month conversion rate of new smear positive patients §	Cure rate of new smear positive patients ¶	Success rate of new smear positive patients ¶
Haryana	Faridabad	23	2368 (2.9)	461 (19)	93%	771	134	290	50 (59)	0.9	87%	77%	82%
Haryana	Gurgaon	17	2968 (3.2)	455 (15)	85%	582	134	213	49 (58)	0.6	91%	80%	80%
Haryana	Jind	13	586 (3.2)	160 (27)	97%	107		55		0.2			
Haryana	Sonapat	13	1372 (3.6)	220 (16)	95%	384	114	120	36 (42)	1.3	87%	76%	82%
Himachal Pradesh	Bilaspur-HP	3.5	840 (1.7)	118 (14)	93%	176	200	82	93 (110)	0.6	91%	83%	92%
Himachal Pradesh	Chamba	4.8	540 (2.1)	70 (13)	94%	141	119	53	45 (52)	0.7	95%	92%	92%
Himachal Pradesh	Hamirpur-HP	4.3	1294 (2.0)	131 (10)	94%	214	201	92	86 (102)	0.6	96%	90%	90%
Himachal Pradesh	Kangra	14	2348 (2.6)	448 (19)	94%	635	184	261	76 (89)	0.6	93%	89%	89%
Himachal Pradesh	Kinnaur	0.9	276 (1.7)	23 (8)	100%	44	203	23	106 (125)	0.4	67%	50%	88%
Himachal Pradesh	Kullu	3.9	1445 (3.0)	119 (8)	92%	389	397	88	90 (106)	1.8	88%	96%	96%
Himachal Pradesh	Lahul & Spiti	0.3	58 (0.8)	3 (5)	50%	4	47	1	12 (14)	1.0	100%	100%	100%
Himachal Pradesh	Mandi	9.3	2043 (2.0)	330 (16)	91%	586	252	203	87 (103)	0.6	89%	87%	87%
Himachal Pradesh	Shimla	7.5	1651 (2.2)	257 (16)	96%	385	207	141	76 (89)	0.6	97%	81%	81%
Himachal Pradesh	Sirmaur	4.7	1006 (2.9)	110 (11)	89%	235	199	70	59 (70)	1.0	98%	89%	89%
Himachal Pradesh	Solan	5.2	2015 (3.2)	294 (15)	99%	246	191	112	87 (102)	0.4	96%	93%	93%
Himachal Pradesh	Una	4.6	889 (1.7)	94 (11)	84%	144	124	57	49 (58)	0.6	86%	90%	90%
Jharkhand	Hazaribagh	28	1166 (4.6)	217 (19)	100%	433	61	163	23 (27)	1.2	100%		
Jharkhand	Palamu	22	1445 (3.0)	378 (26)	98%	654	120	297	54 (64)	0.8	97%	93%	94%
Jharkhand	Ranchi	29	2599 (3.6)	327 (13)	100%	629	87	257	35 (42)	0.9	97%	90%	91%
Karnataka	Bagalkot	17	2700 (2.7)	267 (10)	98%	452	106	198	46 (55)	0.9	93%	86%	86%
Karnataka	Bangalore City	52	8867 (2.2)	1253 (14)	96%	1143	88	404	31 (37)	0.7	90%	85%	85%
Karnataka	Bangalore Rural	19	3022 (1.7)	261 (9)	98%	548	113	228	47 (55)	0.8	85%	74%	74%
Karnataka	Bangalore U	16	1594 (1.9)	151 (9)	100%	497	127	196	50 (59)	0.8	91%	86%	86%
Karnataka	Bellary	21	3956 (4.0)	820 (21)	100%	698	134	340	65 (77)	0.7	84%	75%	75%
Karnataka	Bidar	15	1368 (1.3)	200 (15)	100%	244		155		0.3			
Karnataka	Bijapur	19	1810 (2.2)	243 (13)	100%	480	103	180	39 (45)	1.1	94%	87%	87%
Karnataka	Chikmagalur	12	898 (1.3)	85 (9)	86%	113		58		0.3			
Karnataka	Chitradurga	16	2744 (2.1)	344 (13)	100%	645	165	278	71 (84)	1.0	90%	90%	91%
Karnataka	Davanagere	18	3378 (3.2)	404 (12)	100%	624	135	230	50 (59)	1.1	93%	87%	87%
Karnataka	Dakshin Kannada	20	1465 (0.9)	189 (13)	78%	234		117		0.3			
Karnataka	Dharwad	17	1980 (2.1)	191 (10)	94%	321		115		0.7			
Karnataka	Gadag	10	2227 (2.0)	289 (13)	92%	183		100		0.3			
Karnataka	Gulbarga	32	1695 (0.9)	361 (21)	91%	431		271		0.4			
Karnataka	Hassan	18	4811 (1.6)	302 (6)	92%	438		205		0.4			
Karnataka	Kolar	26	175 (1.0)	15 (9)	93%	21		11		0.3			
Karnataka	Koppal	12	1767 (3.3)	164 (9)	99%	416	135	163	53 (62)	0.9	96%	84%	84%
Karnataka	Mandya	18	5089 (2.7)	407 (8)	80%	522	115	204	45 (53)	0.9	85%	76%	76%
Karnataka	Mysore	27	2547 (0.8)	213 (8)	97%	400		165		0.6			
Karnataka	Raichur	17	2977 (3.7)	402 (14)	98%	681	160	307	72 (85)	0.7	96%	94%	94%

**Performance of RNTCP Case Detection (2003, first quarter), Smear Conversion (2002, fourth quarter),
and Treatment Outcomes (2002, first quarter)**

State	District	Population (in lakh) *	Outpatients examined No (%)	Smear positive patients examined No (%)	Percentage smear positive patients living in the district placed on DOTS	Total patients treated	Annualized total case detection rate †	New smear positive patients treated	Annualized new smear positive case detection rate (%) †	Ratio of new smear negative to new smear positive patients	3 month conversion rate of new smear positive patients §	Cure rate of new smear positive patients ¶	Success rate of new smear positive patients ¶
Karnataka	Shimoga	17	1972 (1.0)	183 (9)	98%	354		143		1.0			
Karnataka	Tumkur	27	3970 (1.1)	517 (13)	96%	585		302		0.4			
Kerala	Alappuzha	21	3605 (1.2)	239 (7)	96%	486	91	183	34 (40)	0.8	91%	92%	92%
Kerala	Ernakulam	32	5005 (2.1)	356 (7)	100%	585	74	275	35 (41)	0.5	86%	90%	90%
Kerala	Idukki	11	1542 (1.0)	73 (5)	97%	132	46	66	23 (27)	0.3	89%	87%	87%
Kerala	Kannur	25	3343 (1.4)	283 (8)	99%	515	84	231	38 (44)	0.4	94%	88%	88%
Kerala	Kasaragod	12	1510 (2.1)	118 (8)	99%	224	73	117	38 (45)	0.5	90%	87%	87%
Kerala	Kollam	26	4039 (2.0)	344 (9)	98%	635	97	299	45 (53)	0.8	94%	90%	90%
Kerala	Kottayam	20	4627 (1.5)	235 (5)	98%	411	83	201	40 (48)	0.4	91%	91%	91%
Kerala	Kozhikode	29	4857 (1.7)	305 (6)	72%	544	74	217	30 (35)	0.6	88%	87%	88%
Kerala	Malappuram	37	4993 (2.5)	312 (6)	94%	590	64	240	26 (31)	0.6	89%	89%	91%
Kerala	Palakkad	27	3530 (1.8)	294 (8)	97%	537	81	246	37 (43)	0.5	86%	81%	82%
Kerala	Pathanamthitta	13	1670 (1.8)	110 (7)	100%	190	61	96	31 (36)	0.4	91%	91%	91%
Kerala	Thiruvananthapuram	33	5310 (1.7)	293 (6)	96%	589	72	224	27 (32)	0.8	90%	87%	87%
Kerala	Thrissur	30	3734 (1.7)	309 (8)	97%	506	67	230	30 (36)	0.5	91%	87%	87%
Kerala	Wayanad	8.0	1300 (1.3)	74 (6)	99%	172	86	66	33 (39)	1.0	89%	92%	92%
Madhya Pradesh	Bhopal	19	2744 (2.0)	462 (17)	91%	573	119	227	47 (56)	0.8	88%	81%	81%
Madhya Pradesh	Damoh	11	1144 (4.7)	219 (19)	74%	251		126		0.6			
Madhya Pradesh	Dewas	14	367 (1.3)	46 (13)	93%	91		37		0.7			
Madhya Pradesh	Harda	5.0	354 (3.0)	82 (23)	88%	95		40		0.3			
Madhya Pradesh	Hoshangabad	11	1411 (2.3)	295 (21)	96%	451	159	165	58 (69)	0.7	94%		
Madhya Pradesh	Katni	11	521 (3.4)	87 (17)	82%	103		53		0.5			
Madhya Pradesh	Mandsaur	12	170 (1.1)	35 (21)	31%	13		5		0.2			
Madhya Pradesh	Neemuch	7.6	484 (2.0)	80 (17)	78%	110		44		0.5			
Madhya Pradesh	Raisen	12	839 (2.5)	150 (18)	96%	330	113	84	29 (34)	1.8	91%	85%	85%
Madhya Pradesh	Raigarh	13	1142 (2.2)	205 (18)	96%	436	133	144	44 (52)	1.3	90%	84%	84%
Madhya Pradesh	Ratlam	13	363 (2.4)	131 (36)	64%	122		52		0.4			
Madhya Pradesh	Sehore	11	945 (1.8)	116 (12)	97%	245	87	76	27 (32)	1.2	91%	87%	90%
Madhya Pradesh	Vidisha	13	1360 (2.2)	280 (21)	95%	496	156	200	63 (74)	0.9	84%	83%	85%
Maharashtra	Ahmadnagar	43	1964 (1.3)	230 (12)	96%	603	57	168	16 (19)	1.5	82%	76%	78%
Maharashtra	Akola	17	993 (2.9)	178 (18)	79%	152		83		0.4			
Maharashtra	Amravati Mun Corp	5.7	1014 (1.6)	118 (12)	98%	0		65		1.0			
Maharashtra	Amravati Rural	21	308 (1.8)	27 (9)	89%	42		21		0.4			
Maharashtra	Aurangabad Muni Corp	9.1	1082 (2.1)	176 (16)	103%	182	80	66	29 (34)	0.7	92%	81%	81%
Maharashtra	Aurangabad-MH	21	2149 (3.1)	260 (12)	100%	538	101	212	40 (47)	1.0	95%	90%	90%
Maharashtra	Bhandara	12	2107 (2.6)	180 (9)	99%	311	105	124	42 (49)	0.8	94%		
Maharashtra	Bid	22	2357 (2.9)	199 (8)	100%	410	73	153	27 (32)	1.0	94%	73%	73%
Maharashtra	Chandrapur	22	2615 (1.7)	337 (13)	100%	700	129	267	49 (58)	0.9	91%		
Maharashtra	Dhule	18	2434 (3.5)	315 (13)	93%	524	118	207	47 (55)	0.8	92%	86%	86%

**Performance of RNTCP Case Detection (2003, first quarter), Smear Conversion (2002, fourth quarter),
and Treatment Outcomes (2002, first quarter)**

State	District	Population (in lakh) *	Outpatients examined No (%)	Smear positive patients examined No (%)	Percentage smear positive patients living in the district placed on DOTS	Total patients treated	Annualized total case detection rate †	New smear positive patients treated	Annualized new smear positive case detection rate (%) †	Ratio of new smear negative to new smear positive patients	3 month conversion rate of new smear positive patients §	Cure rate of new smear positive patients ¶	Success rate of new smear positive patients ¶
Maharashtra	Gadchiroli	10	2034 (23.1)	230 (11)	96%	415	164	169	67 (79)	1.0	82%		
Maharashtra	Gondiya	13	2404 (2.8)	248 (10)	92%	472	151	167	53 (63)	1.1	90%		
Maharashtra	Hingoli	10	737 (2.5)	250 (34)	78%	236	92	131	51 (60)	0.2			
Maharashtra	Jalgaon	38	4318 (3.3)	529 (12)	97%	1027	107	464	48 (57)	0.9	92%	84%	84%
Maharashtra	Jalna	17	1715 (3.0)	284 (17)	100%	566	135	209	50 (59)	1.2	93%	86%	90%
Maharashtra	Kalyan Dombivli MC	12	982 (3.5)	151 (15)	96%	371	119	112	36 (42)	1.1	86%	73%	73%
Maharashtra	Kolhapur	32	3090 (1.8)	440 (14)	97%	858	109	345	44 (51)	0.9	94%	90%	91%
Maharashtra	Kolhapur Mun Corp	5.1	562 (2.5)	71 (13)	100%	169	134	62	49 (58)	0.7	100%	88%	88%
Maharashtra	Latur	22	1895 (2.1)	179 (9)	93%	386	71	122	23 (27)	1.0	91%	83%	83%
Maharashtra	Mumbai	124	16969 (3.0)	3135 (18)	82%	6257	202	1861	60 (71)	1.0	90%	85%	85%
Maharashtra	Nagpur Muni Corp	21	2085 (9.3)	368 (18)	71%	658	123	199	37 (44)	0.7	67%		
Maharashtra	Nagpur Rural	21	1880 (2.3)	227 (12)	127%	469	90	227	44 (51)	0.6	96%		
Maharashtra	Nanded	25	2269 (2.3)	358 (16)	100%	730	115	230	36 (43)	1.2	76%		
Maharashtra	Nandurbar	14	1631 (2.9)	158 (10)	99%	383	112	125	37 (43)	1.4	94%	76%	86%
Maharashtra	Nashik	41	5670 (2.7)	787 (14)	94%	1462	144	605	59 (70)	0.8	95%	88%	88%
Maharashtra	Nashik Corp	11	842 (3.0)	84 (10)	90%	232	83	53	19 (22)	1.7	78%	72%	76%
Maharashtra	Navi Mumbai	7.3	1189 (2.8)	141 (12)	90%	269	147	99	54 (64)	0.8	85%	76%	77%
Maharashtra	Osmanabad	15	1774 (2.8)	128 (7)	89%	326	85	100	26 (31)	1.5	93%	88%	88%
Maharashtra	Parbhani	16	1868 (3.4)	181 (10)	100%	328	84	116	30 (35)	1.0	89%		
Maharashtra	Pimpri Chinchwad	10	1721 (2.8)	226 (13)	97%	419	160	151	58 (68)	0.5	90%	89%	91%
Maharashtra	Pune	26	3848 (2.8)	414 (11)	100%	922	139	344	52 (61)	0.8	94%	90%	90%
Maharashtra	Pune Rural	38	4998 (3.0)	665 (13)	96%	884	92	389	41 (48)	0.7	92%	82%	82%
Maharashtra	Raigarh-MH	23	2636 (2.3)	440 (17)	92%	808	141	313	54 (64)	1.0	93%	85%	85%
Maharashtra	Ratnagiri	18	2319 (3.6)	295 (13)	88%	622	141	208	47 (55)	1.0	92%	88%	90%
Maharashtra	Sangli	22	2318 (2.5)	308 (13)	105%	581	104	208	37 (44)	0.9	88%	88%	88%
Maharashtra	Sangli Muni Corp	4.5	347 (3.0)	71 (20)	115%	128	113	49	43 (51)	0.7	92%	78%	78%
Maharashtra	Satara	29	3134 (2.7)	424 (14)	100%	967	133	331	45 (53)	1.3	91%	85%	85%
Maharashtra	Sindhudurg	9.0	1671 (2.6)	152 (9)	88%	322	144	111	49 (58)	1.1	92%	79%	79%
Maharashtra	Solapur	31	3614 (2.7)	499 (14)	88%	613	79	265	34 (40)	0.8	86%	74%	74%
Maharashtra	Solapur Muni Corp	9.1	984 (2.3)	122 (12)	75%	308	135	97	43 (50)	1.1	70%	56%	57%
Maharashtra	Thane	47	5117 (2.9)	587 (11)	98%	1330	114	475	41 (48)	1.1	92%	83%	83%
Maharashtra	Thane Muni Corp	13	1776 (4.1)	353 (20)	94%	643	196	196	60 (70)	0.7	88%	81%	81%
Maharashtra	Wardha	13	2030 (2.6)	183 (9)	84%	356	111	139	43 (51)	1.0	91%		
Maharashtra	Yavatmal	26	2518 (1.6)	405 (16)	91%	807	126	274	43 (50)	1.1	88%		
Manipur	Bishnupur	2.2	323 (2.2)	48 (15)	94%	99	182	35	65 (76)	0.8	95%	88%	93%
Manipur	Chandel	1.3	161 (6.6)	16 (10)	100%	53	164	16	49 (58)	1.1	94%	94%	94%
Manipur	Churachandpur	2.4	405 (2.5)	45 (11)	100%	158	262	44	73 (86)	1.4	98%	84%	84%
Manipur	Imphal East	4.2	314 (4.7)	85 (27)	100%	298	287	85	82 (96)	1.6	86%	81%	86%
Manipur	Imphal West	4.6	1454 (8.9)	130 (9)	97%	309	267	96	83 (98)	1.1	93%	87%	87%

**Performance of RNTCP Case Detection (2003, first quarter), Smear Conversion (2002, fourth quarter),
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State	District	Population (in lakh) *	Outpatients examined No (%)	Smear positive patients examined No (%)	Percentage smear positive patients living in the district placed on DOTS	Total patients treated	Annualized total case detection rate †	New smear positive patients treated	Annualized new smear positive case detection rate (%) †	Ratio of new smear negative to new smear positive patients	3 month conversion rate of new smear positive patients §	Cure rate of new smear positive patients ¶	Success rate of new smear positive patients ¶
Manipur	Senapati	4.0	325 (3.1)	33 (10)	100%	110	110	33	33 (39)	1.0	93%		
Manipur	Tamenglong	1.2	103 (2.0)	11 (11)	100%	17	58	7	24 (28)	0.4	89%	60%	60%
Manipur	Thoubal	3.9	438 (6.2)	72 (16)	100%	161	167	52	54 (63)	1.2	92%	72%	84%
Manipur	Ukhrul	1.5	170 (7.1)	19 (11)	100%	57	153	19	51 (60)	0.8	72%	90%	90%
Nagaland	Kohima	3.5	186 (1.7)	102 (55)	67%	74	85	43	50 (58)	0.1	33%		
Nagaland	Mokokchung	2.5	226 (67.9)	9 (4)	100%	21	33	9	14 (17)	0.4	100%		
Nagaland	Mon	2.9	278 (6.0)	49 (18)	53%	36	50	26	36 (43)	0.2	67%		
Nagaland	Phek	1.6	36 (1.9)	9 (25)	56%	9	22	5	12 (14)	0.0	57%		
Nagaland	Tuensang	4.6	520 (2.7)	67 (13)	93%	119	104	65	57 (67)	0.5	89%		
Nagaland	Wokha	1.8	32 (3.0)	18 (56)	100%	25	56	13	29 (34)	0.5	33%		
Nagaland	Zunheboto	1.7	67 (64.4)	8 (12)	88%	14	33	8	19 (22)	0.4	100%		
Orissa	Debagarh	2.8	347 (1.0)	36 (10)	91%	58	82	29	41 (48)	0.6	89%	79%	83%
Orissa	Gajapati	5.3	819 (2.8)	164 (20)	68%	247	185	111	83 (98)	0.7	79%		
Orissa	Jharsuguda	5.2	690 (1.2)	105 (15)	85%	179	137	85	65 (76)	0.7	96%	87%	87%
Orissa	Kalahandi	14	1665 (2.2)	396 (24)	71%	521	152	319	93 (109)	0.3	88%	86%	86%
Orissa	Kandhamal	6.7	1306 (2.1)	220 (17)	93%	213	128	124	74 (87)	0.1	78%		
Orissa	Kendujhar	16	2452 (2.5)	293 (12)	90%	488	121	215	53 (63)	0.8	94%	88%	88%
Orissa	Koraput	12	1806 (3.3)	272 (15)	80%	304	100	188	62 (73)	0.2	95%	89%	90%
Orissa	Malkangiri	4.9	761 (2.5)	145 (19)	70%	167	135	91	74 (87)	0.4	89%	80%	80%
Orissa	Mayurbhanj	23	2881 (1.8)	532 (18)	93%	863	151	431	75 (89)	0.7	91%	88%	88%
Orissa	Nabarangapur	10	773 (1.8)	172 (22)	82%	232	88	139	53 (62)	0.3	95%	84%	84%
Orissa	Nuapada	5.5	599 (1.8)	108 (18)	100%	227	166	83	61 (71)	0.8	61%		
Orissa	Rayagada	8.5	1347 (2.2)	257 (19)	92%	341	161	211	100 (117)	0.4	94%	79%	79%
Orissa	Sambalpur	9.6	2256 (1.7)	214 (9)	88%	341	143	117	49 (58)	1.1	93%	93%	93%
Orissa	Sundargarh	19	3758 (2.4)	482 (13)	83%	810	172	322	68 (80)	0.8	92%	91%	91%
Punjab	Amritsar	32	1993 (1.6)	515 (26)	90%	640		268		0.4			
Punjab	Bathinda	12	1080 (2.0)	187 (17)	85%	249	81	78	25 (30)	1.1	86%		
Punjab	Fatehgarh Sahib	5.6	301 (0.8)	35 (12)	94%	91		41		0.4			
Punjab	Hoshiarpur	15	1223 (1.2)	268 (22)	63%	246		97		0.5			
Punjab	Ludhiana	31	2357 (1.4)	417 (18)	99%	776	99	312	40 (47)	0.7	83%		
Punjab	Nawanshahr	6.1	301 (1.0)	56 (19)	57%	55		23		0.3			
Punjab	Patiala	19	3633 (2.4)	331 (9)	94%	458	96	188	39 (46)	0.5	94%	85%	85%
Punjab	Rupnagar	12	1264 (0.9)	180 (14)	92%	251	87	109	38 (45)	0.5	88%		
Punjab	Sangrur	21	1087 (0.9)	228 (21)	85%	335		146		0.8			
Rajasthan	Ajmer	23	3230 (2.2)	868 (27)	78%	1045	182	396	69 (81)	0.8	93%	89%	90%
Rajasthan	Alwar	31	3801 (2.6)	555 (15)	92%	991	126	349	44 (52)	1.1	91%	83%	85%
Rajasthan	Banswara	16	1838 (2.1)	426 (23)	99%	616	156	254	64 (76)	0.7	94%	88%	92%
Rajasthan	Baran	11	1404 (2.4)	318 (23)	92%	484	180	185	69 (81)	0.7	93%	86%	87%
Rajasthan	Barmer	21	2417 (3.2)	269 (11)	96%	528	102	201	39 (46)	1.1	89%	89%	91%

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Rajasthan	Bharatpur	22	2564 (2.7)	401 (16)	77%	491	89	192	35 (41)	0.8	91%	86%	88%
Rajasthan	Bhilwara	21	3561 (3.2)	719 (20)	99%	1113	211	437	83 (97)	0.6	95%	91%	91%
Rajasthan	Bikaner	20	2243 (3.0)	459 (20)	96%	750	151	292	59 (69)	0.7	94%	87%	88%
Rajasthan	Bundi	10	1434 (3.3)	245 (17)	94%	411	163	159	63 (74)	0.9	95%	89%	90%
Rajasthan	Chittaurgarh	19	2320 (2.5)	447 (19)	90%	634	134	248	52 (62)	0.5	96%	89%	91%
Rajasthan	Churu	18	1721 (3.2)	434 (25)	93%	775	174	285	64 (75)	0.8	92%	84%	86%
Rajasthan	Dausa	14	2283 (2.7)	351 (15)	99%	563	163	200	58 (68)	1.0	91%	89%	90%
Rajasthan	Dhaulpur	10	1014 (2.1)	200 (20)	91%	307	119	94	36 (43)	0.9	92%	83%	84%
Rajasthan	Dungarpur	12	1270 (2.7)	422 (33)	91%	617	212	269	92 (109)	0.8	90%	80%	81%
Rajasthan	Ganganagar	19	2203 (3.2)	533 (24)	91%	763	162	300	64 (75)	0.7	92%	83%	83%
Rajasthan	Hanumangarh	16	2636 (2.7)	587 (22)	84%	739	185	271	68 (80)	0.6	91%	82%	82%
Rajasthan	Jaipur	55	10473 (2.6)	2022 (19)	89%	2307	167	723	52 (62)	0.9	93%	88%	89%
Rajasthan	Jaisalmer	5.3	694 (2.1)	101 (15)	93%	174	130	78	58 (69)	0.8	94%	88%	88%
Rajasthan	Jalore	15	1339 (2.7)	275 (21)	96%	416	109	153	40 (47)	0.9	92%	84%	84%
Rajasthan	Jhalawar	12	1379 (2.3)	238 (17)	88%	372	120	127	41 (48)	1.1	89%	84%	84%
Rajasthan	Jhunjhunun	20	1679 (2.2)	421 (25)	92%	555	110	202	40 (47)	0.8	90%	80%	81%
Rajasthan	Jodhpur	30	3223 (3.5)	405 (13)	81%	721	95	212	28 (33)	1.7	90%	78%	86%
Rajasthan	Karauli	13	1714 (2.3)	386 (23)	86%	552	174	235	74 (87)	0.6	93%	86%	92%
Rajasthan	Kota	16	2020 (2.8)	383 (19)	96%	616	149	233	57 (66)	0.8	96%	90%	92%
Rajasthan	Nagaur	29	4048 (2.3)	542 (13)	60%	797	109	286	39 (46)	1.1	90%	88%	88%
Rajasthan	Pali	19	2155 (3.0)	443 (21)	86%	668	140	268	56 (66)	0.9	92%	88%	90%
Rajasthan	Rajsamand	10	959 (2.0)	245 (26)	97%	352	136	126	49 (57)	0.9	86%	82%	82%
Rajasthan	Sawai Madhopur	12	2478 (2.9)	439 (18)	91%	594	203	203	69 (81)	0.7	91%	91%	91%
Rajasthan	Sikar	24	3043 (2.8)	638 (21)	95%	815	136	290	48 (57)	0.9	96%	89%	89%
Rajasthan	Sirohi	8.9	962 (2.2)	237 (25)	92%	356	159	171	76 (90)	0.6	85%	82%	82%
Rajasthan	Tonk	13	2159 (3.4)	469 (22)	94%	686	215	278	87 (103)	0.7	91%	88%	91%
Rajasthan	Udaipur	28	5031 (1.9)	870 (17)	98%	1350	195	563	81 (96)	0.5	92%	85%	86%
Sikkim	East	2.6	902 (2.9)	121 (13)	96%	165	255	60	93 (109)	0.4	88%	80%	80%
Sikkim	North	0.4	73 (2.9)	14 (19)	93%	25	230	10	92 (108)	0.9	100%	60%	60%
Sikkim	South	1.4	308 (2.5)	40 (13)	98%	92	264	31	89 (105)	0.8	89%	82%	82%
Sikkim	West	1.3	200 (2.8)	33 (17)	97%	53	163	28	86 (101)	0.2	100%	86%	86%
Tamil Nadu	Chennai	43	6229 (1.9)	744 (12)	100%	1764	164	506	47 (55)	1.3	90%	87%	88%
Tamil Nadu	Coimbatore	43	8118 (1.5)	703 (9)	96%	1201	111	450	42 (49)	0.9	94%	87%	87%
Tamil Nadu	Cuddalore	23	6955 (1.9)	446 (6)	78%	906	156	328	56 (66)	1.0	94%	86%	86%
Tamil Nadu	Dharmapuri	29	5481 (1.4)	418 (8)	83%	722	100	288	40 (47)	0.7	92%	87%	87%
Tamil Nadu	Dindigul	20	5846 (2.2)	385 (7)	100%	803	164	318	65 (76)	1.0	92%	87%	87%
Tamil Nadu	Erode	26	7374 (1.6)	601 (8)	92%	821	125	402	61 (72)	0.7	92%	84%	84%
Tamil Nadu	Kancheepuram	29	4056 (2.0)	436 (11)	102%	1238	169	397	54 (64)	1.2	95%	85%	85%
Tamil Nadu	Kanniyakumari	17	3367 (2.6)	260 (8)	90%	380	89	190	45 (52)	0.6	90%		

**Performance of RNTCP Case Detection (2003, first quarter), Smear Conversion (2002, fourth quarter),
and Treatment Outcomes (2002, first quarter)**

State	District	Population (in lakh) *	Outpatients examined No (%)	Smear positive patients examined No (%)	Percentage smear positive patients living in the district placed on DOTS	Total patients treated	Annualized total case detection rate †	New smear positive patients treated	Annualized new smear positive case detection rate (%) †	Ratio of new smear negative to new smear positive patients	3 month conversion rate of new smear positive patients §	Cure rate of new smear positive patients ¶	Success rate of new smear positive patients ¶
Tamil Nadu	Karur	9.5	2182 (1.9)	170 (8)	96%	349	146	128	54 (63)	1.1	92%	75%	75%
Tamil Nadu	Madurai	26	3010 (1.8)	355 (12)	100%	1097	168	357	55 (64)	1.4	84%	86%	86%
Tamil Nadu	Nagapattinam	15	2888 (2.4)	186 (6)	98%	384	101	152	40 (47)	1.0	92%	90%	90%
Tamil Nadu	Namakkal	15	2091 (0.8)	265 (13)	100%	468	123	153	40 (47)	1.4	91%	84%	84%
Tamil Nadu	Perambalur	12	2129 (1.9)	168 (8)	100%	363	120	147	49 (57)	0.8	92%	86%	86%
Tamil Nadu	Pudukkottai	15	3064 (1.7)	363 (12)	100%	614	166	276	74 (88)	0.7	93%	91%	91%
Tamil Nadu	Ramanathapuram	12	2140 (1.6)	189 (9)	98%	517	171	178	59 (69)	1.2	88%	85%	85%
Tamil Nadu	Salem	31	5462 (2.2)	577 (11)	100%	1060	139	421	55 (65)	0.8	96%	87%	87%
Tamil Nadu	Sivaganga	12	1826 (2.3)	133 (7)	100%	374	127	133	45 (53)	1.3	93%	90%	91%
Tamil Nadu	Thanjavur	23	6170 (2.9)	493 (8)	100%	778	138	291	52 (61)	0.8	95%	83%	83%
Tamil Nadu	The Nilgiris	7.8	940 (2.0)	70 (7)	98%	121	62	44	23 (27)	0.6	96%	83%	83%
Tamil Nadu	Theni	11	3029 (1.7)	174 (6)	100%	579	207	174	62 (73)	1.7	92%	85%	86%
Tamil Nadu	Thiruvallur	28	4796 (1.2)	596 (12)	79%	1152	165	387	55 (65)	1.1	79%	73%	75%
Tamil Nadu	Thiruvarur	12	2117 (1.6)	224 (11)	93%	344	116	152	51 (60)	0.6	92%	83%	83%
Tamil Nadu	Tiruchirappalli	24	4204 (1.8)	497 (12)	100%	781	128	315	52 (61)	1.1	96%	94%	94%
Tamil Nadu	Tirunelveli	29	4788 (1.8)	530 (11)	86%	1408	197	458	64 (75)	1.1	87%	83%	83%
Tamil Nadu	Tiruvanamalai	22	6735 (2.0)	309 (5)	100%	642	115	309	55 (65)	0.9	95%	92%	92%
Tamil Nadu	Toothukudi	16	3285 (2.4)	429 (13)	93%	671	168	320	80 (94)	0.8	92%	85%	85%
Tamil Nadu	Vellore	36	11781 (2.6)	840 (7)	100%	1208	136	525	59 (69)	0.7	94%	88%	88%
Tamil Nadu	Viluppuram	30	6134 (1.8)	426 (7)	93%	1058	141	360	48 (56)	1.3	89%	85%	85%
Tamil Nadu	Virudhunagar	18	4412 (2.0)	422 (10)	100%	762	170	285	64 (75)	1.1	88%	87%	87%
Uttar Pradesh	Baghpat	12	1175 (3.9)	237 (20)	89%	392	129	154	51 (59)	0.8	90%	85%	85%
Uttar Pradesh	Barabanki	28	2806 (3.8)	500 (18)	96%	756	108	343	49 (58)	0.6	88%	82%	86%
Uttar Pradesh	BCM Hospital Sitapur	1.0	199 (4.7)	58 (29)	96%	76	304	36	144 (169)	0.4	94%	85%	85%
Uttar Pradesh	Bharaich	25	882 (3.3)	183 (21)	52%	111		70		0.3			
Uttar Pradesh	Bijnor	33	1574 (7.5)	191 (12)	85%	276		105		0.8			
Uttar Pradesh	Bulandshahar	31	2319 (4.1)	426 (18)	87%	607		240		0.8			
Uttar Pradesh	Gautam Budh Nagar	12	1818 (4.5)	213 (12)	96%	385	123	136	44 (51)	0.7	94%	83%	84%
Uttar Pradesh	Ghaziabad	34	3890 (5.4)	742 (19)	93%	1343	156	539	63 (74)	0.8	94%	85%	85%
Uttar Pradesh	Hamirpur-UP	11	644 (5.9)	129 (20)	100%	153		71		0.8			
Uttar Pradesh	Lucknow	39	6649 (3.8)	861 (13)	93%	1251	130	526	55 (64)	0.6	92%	89%	89%
Uttar Pradesh	Mainpuri	17	802 (6.2)	107 (13)	64%	70		43		0.5			
Uttar Pradesh	Meerut	31	5771 (5.1)	793 (14)	99%	1365	174	606	77 (91)	0.7	95%	93%	93%
Uttar Pradesh	Moradabad	39	3232 (9.9)	467 (14)	89%	535		275		0.6			
Uttar Pradesh	Muzaffarnagar	37	4441 (4.5)	772 (17)	75%	896	97	437	47 (55)	0.6			
Uttar Pradesh	Rae Bareli	30	4100 (2.6)	408 (10)	98%	701	93	309	41 (48)	1.0	95%	93%	93%
Uttar Pradesh	Rampur	20	1819 (14.6)	296 (16)	81%	292		150		0.3			
Uttar Pradesh	Saharanpur	30	3284 (5.9)	515 (16)	84%	622		272		0.6			
Uttar Pradesh	Unnao	28	2242 (5.7)	376 (17)	102%	735	104	271	38 (45)	1.2	94%	84%	84%

**Performance of RNTCP Case Detection (2003, first quarter), Smear Conversion (2002, fourth quarter),
and Treatment Outcomes (2002, first quarter)**

State	District	Population (in lakh) *	Outpatients examined No (%)	Smear positive patients examined No (%)	Percentage smear positive patients living in the district placed on DOTS	Total patients treated	Annualized total case detection rate †	New smear positive patients treated	Annualized new smear positive case detection rate (%) †	Ratio of new smear negative to new smear positive patients	3 month conversion rate of new smear positive patients §	Cure rate of new smear positive patients ¶	Success rate of new smear positive patients ¶
Uttar Pradesh	Varanasi	33	800 (4.4)	147 (18)	67%	138		62		0.5			
Uttaranchal	Almora	6.5	859 (1.7)	75 (9)	93%	117	72	48	29 (35)	0.6	100%		
Uttaranchal	Dehradun	13	2081 (2.3)	253 (12)	97%	267	81	119	36 (42)	0.5	100%		
West Bengal	Bankura	33	4484 (2.2)	616 (14)	100%	1004	122	426	52 (61)	0.8	92%	89%	92%
West Bengal	Bardhaman	72	9219 (2.3)	1209 (13)	93%	2148	120	861	48 (57)	0.9	91%	83%	83%
West Bengal	Birbhum	31	3988 (2.2)	614 (15)	96%	954	123	445	57 (67)	0.7	87%	83%	84%
West Bengal	Dakshin Dinajpur	16	2064 (1.7)	273 (13)	71%	198		135		0.2			
West Bengal	Haora	44	7123 (3.3)	823 (12)	88%	1400	127	502	45 (53)	0.9	87%	80%	81%
West Bengal	Hugli	52	5870 (2.6)	767 (13)	96%	1569	121	599	46 (54)	0.9	88%	83%	83%
West Bengal	Jalpaiguri	35	4550 (2.0)	753 (17)	93%	1192	136	633	72 (85)	0.4	90%	87%	87%
West Bengal	Koch Bihar	26	3675 (2.2)	376 (10)	94%	644	101	302	47 (55)	0.7	94%		
West Bengal	Kolkata	47	4077 (12.9)	922 (23)	93%	1307	110	607	51 (60)	0.4	89%	90%	90%
West Bengal	Maldah	34	4470 (1.3)	654 (15)	79%	969	114	461	54 (64)	0.7	89%	80%	80%
West Bengal	Medinipur East	46	2946 (1.2)	228 (8)	92%	448	39	181	16 (19)	0.9	82%		
West Bengal	Medinipur West	54	5544 (1.8)	682 (12)	90%	1331	99	486	36 (42)	1.0	87%		
West Bengal	Murshidabad	61	7107 (1.3)	878 (12)	86%	1693	112	673	44 (52)	0.9	91%	85%	85%
West Bengal	Nadia	48	5881 (1.9)	601 (10)	98%	1023	86	456	38 (45)	0.7	92%	88%	88%
West Bengal	North 24 Parganas	92	9266 (2.1)	1003 (11)	95%	1779	77	705	31 (36)	0.7	92%	84%	84%
West Bengal	Puruliya	26	3104 (1.7)	525 (17)	83%	805	123	359	55 (64)	0.9	91%		
West Bengal	South 24 Parganas	71	6343 (2.6)	761 (12)	94%	1396	78	582	33 (38)	0.8	91%	86%	86%
West Bengal	Uttar Dinajpur	25	1525 (1.3)	268 (18)	79%	253		142		0.3			
	Total	6444	824874 (2.2)	113464 (14)	91%	185875	127	72797	49 (58)	0.8	91%	85%	86%

NR - Not reported till 12th May 2003; Values for grey areas are not expected

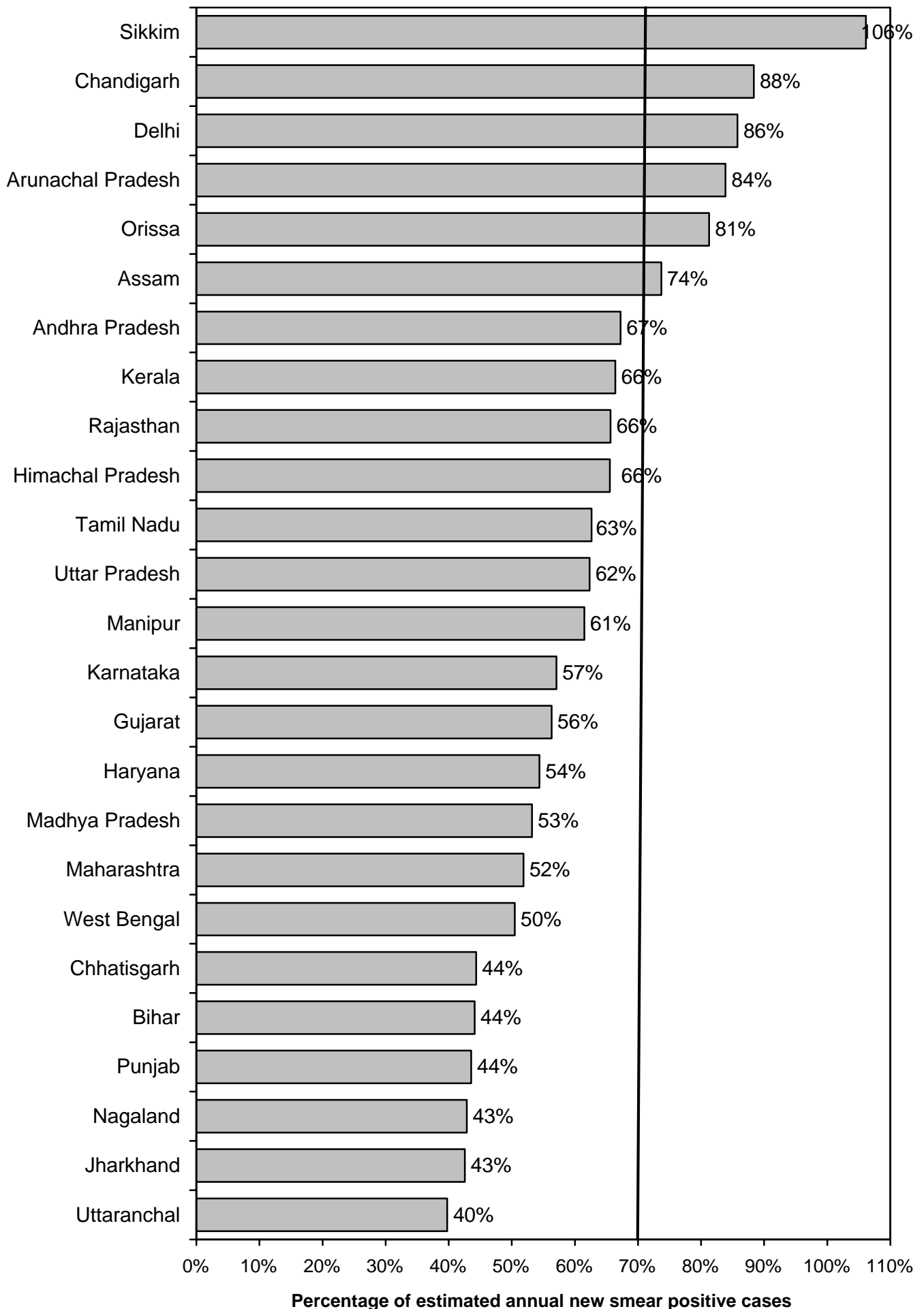
* Projected population based on census population of 2001 is used for calculation of case-detection rate. 1 lakh = 100,000 population

† Annualized case detection rate totals based on districts implementing for more than one quarter. Estimated total new smear-positive cases adjusted for available data on Annual Risk of Infection (ARI) for Kerala (estimated new smear positive cases=50/lakh), Himachal Pradesh (estimated new smear positive cases=115/lakh) and Manipur (estimated new smear +ve cases 100 per lakh). For all other states, estimated total new smear-positive cases=85/lakh. Percentage reflects proportion of expected cases detected (e.g. 70% = 60/85 cases per lakh, 70% = 81/115 cases per lakh)

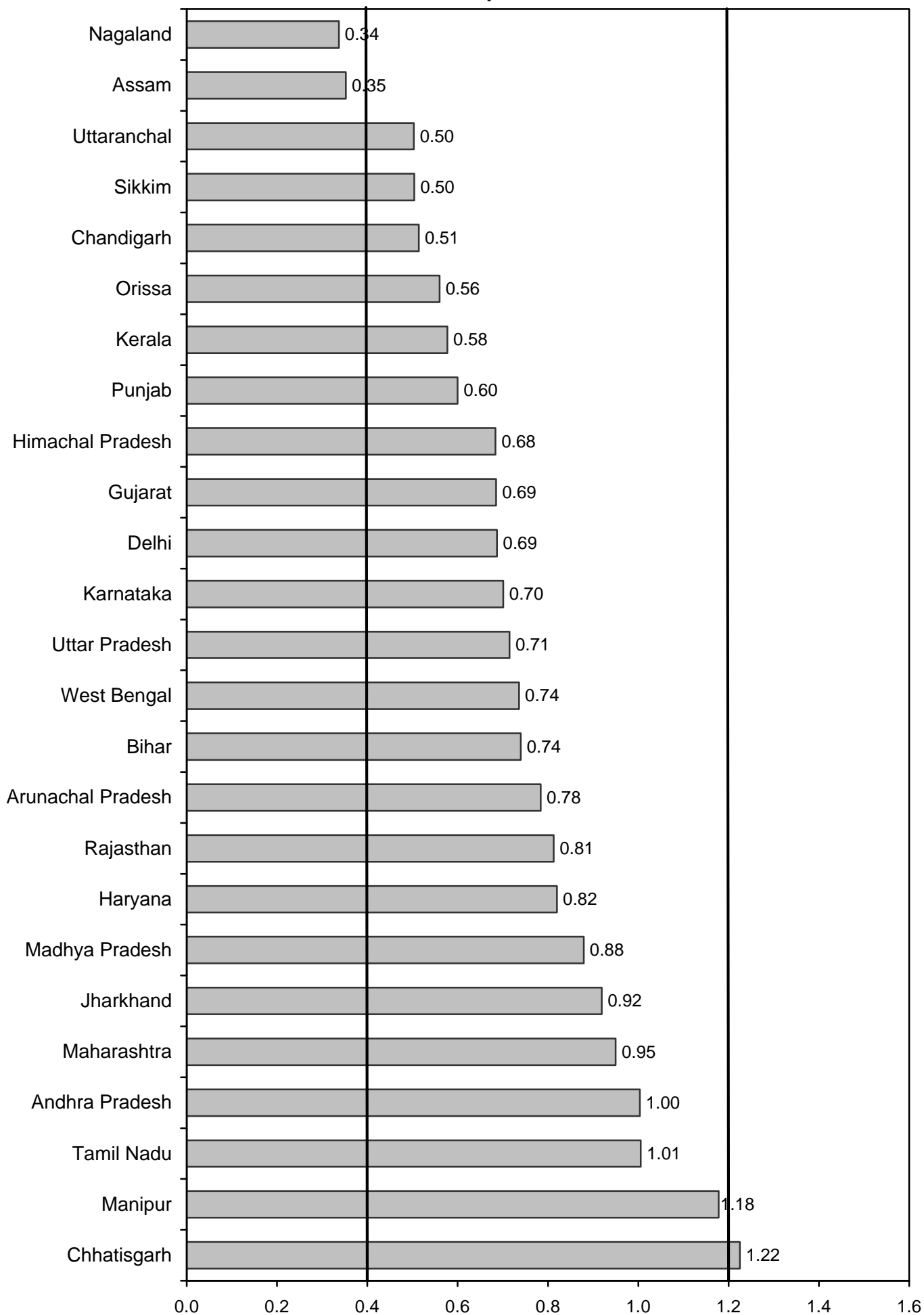
§ Smear conversion rate not expected for districts that began implementing RNTCP during 1st quarter 2003

¶ Cure rate and success rate are not expected for states that began implementing RNTCP after 1st quarter of 2002

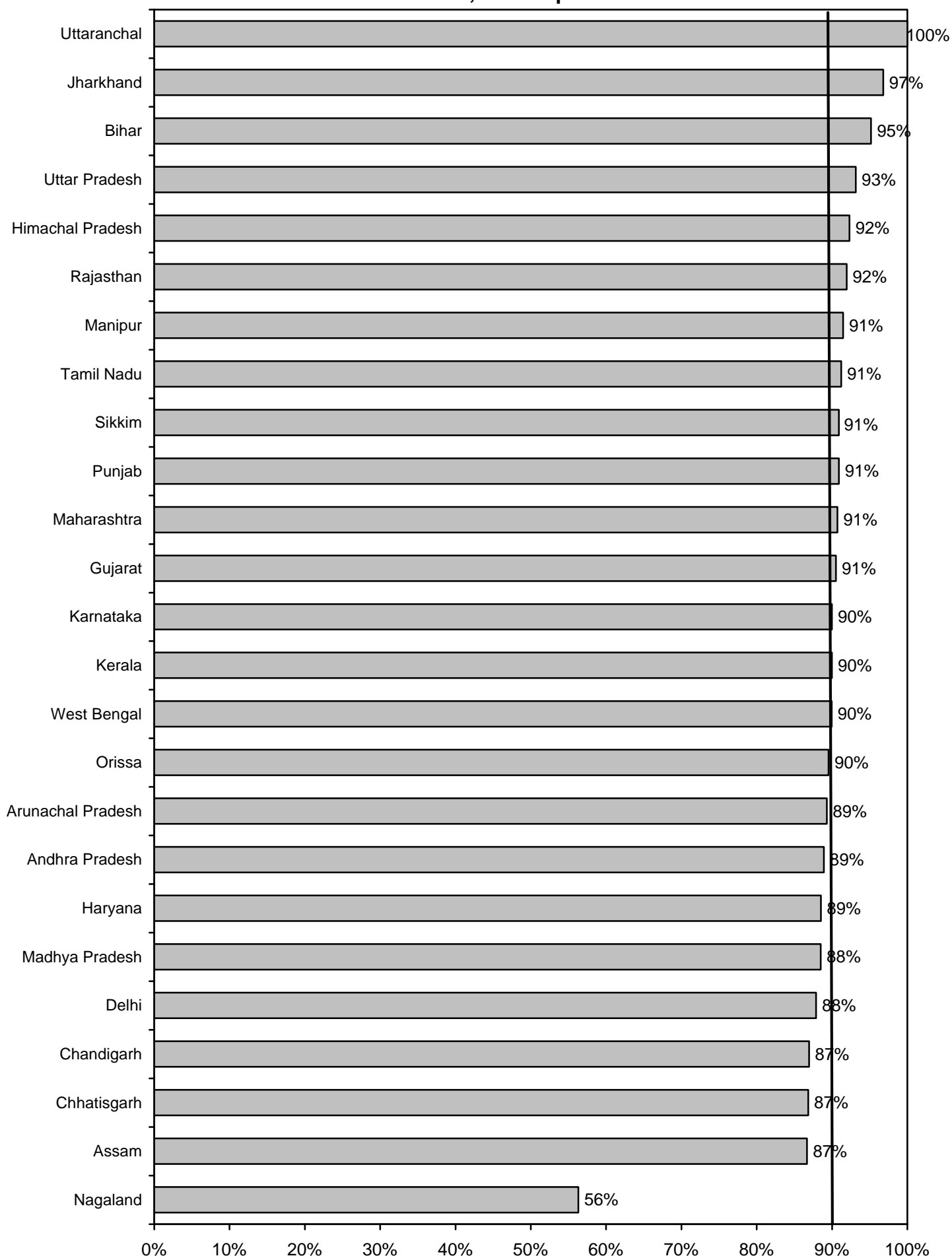
**Percentage of annual estimated new smear-positive cases detected,
first quarter of 2003**



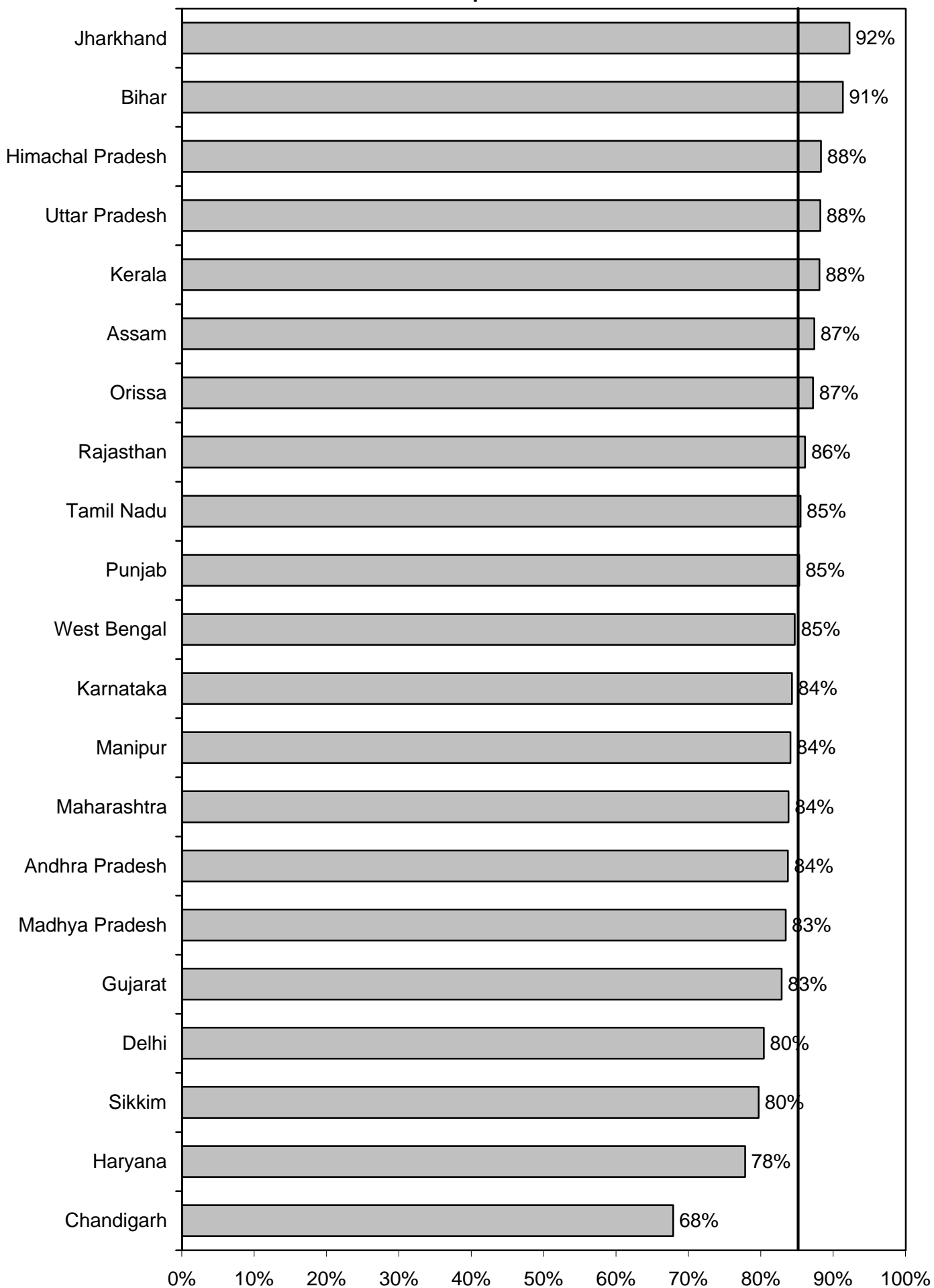
**Ratio of new sputum-negative to new sputum-positive patients,
first quarter of 2003**



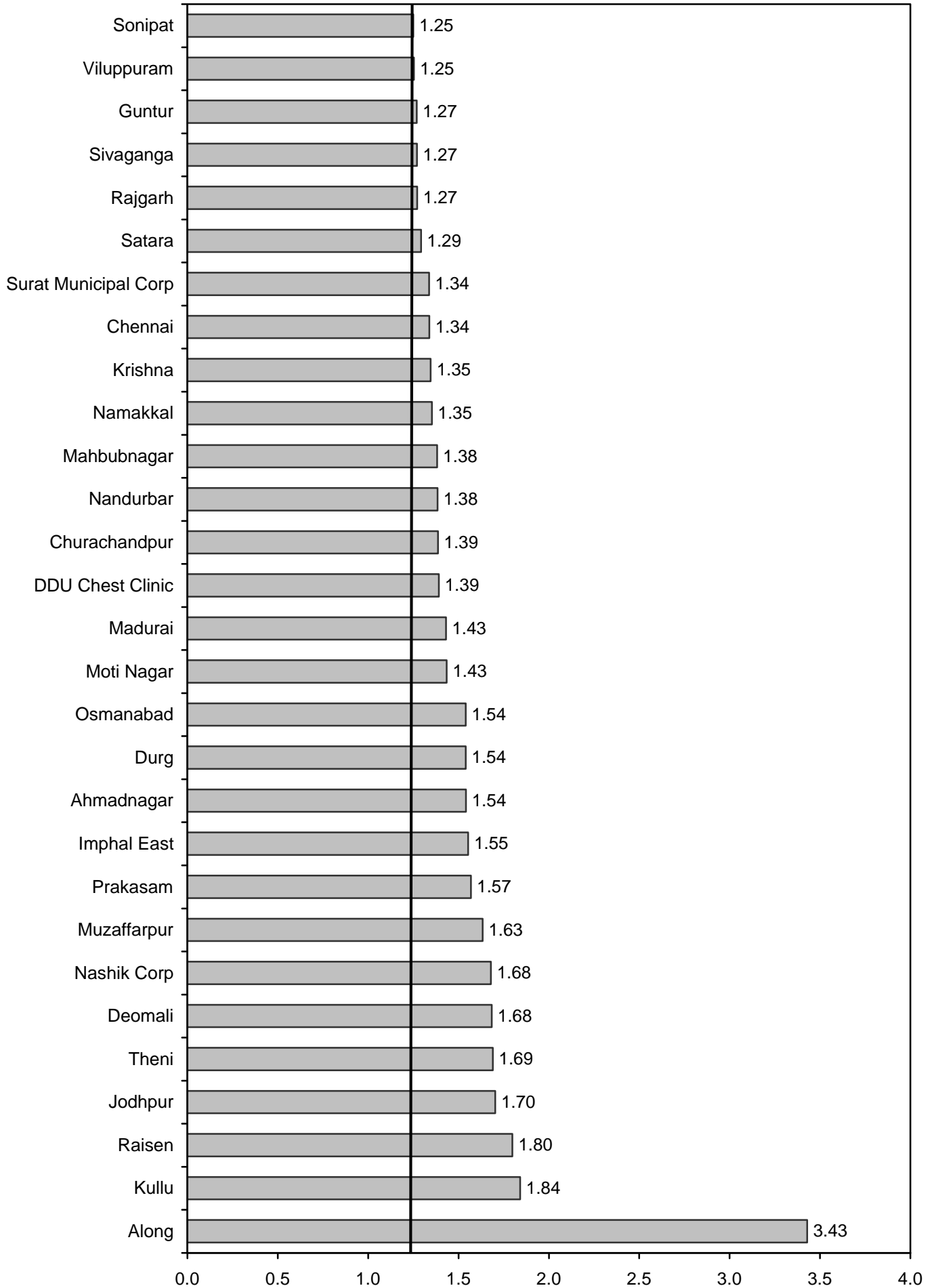
Sputum conversion rate among new sputum-positive patients at 3 months, fourth quarter of 2002



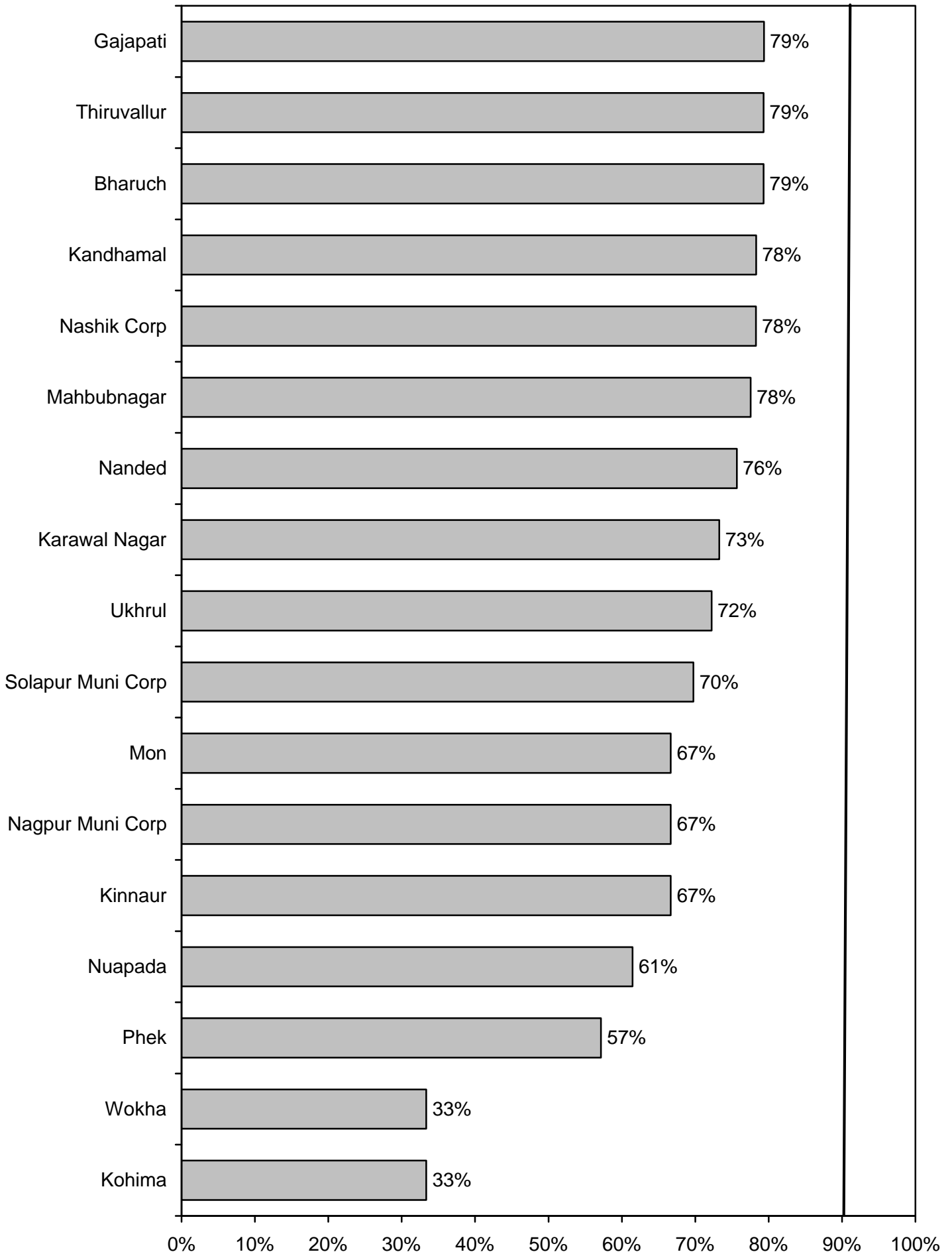
**Cure rate among new sputum-positive patients,
first quarter of 2002**



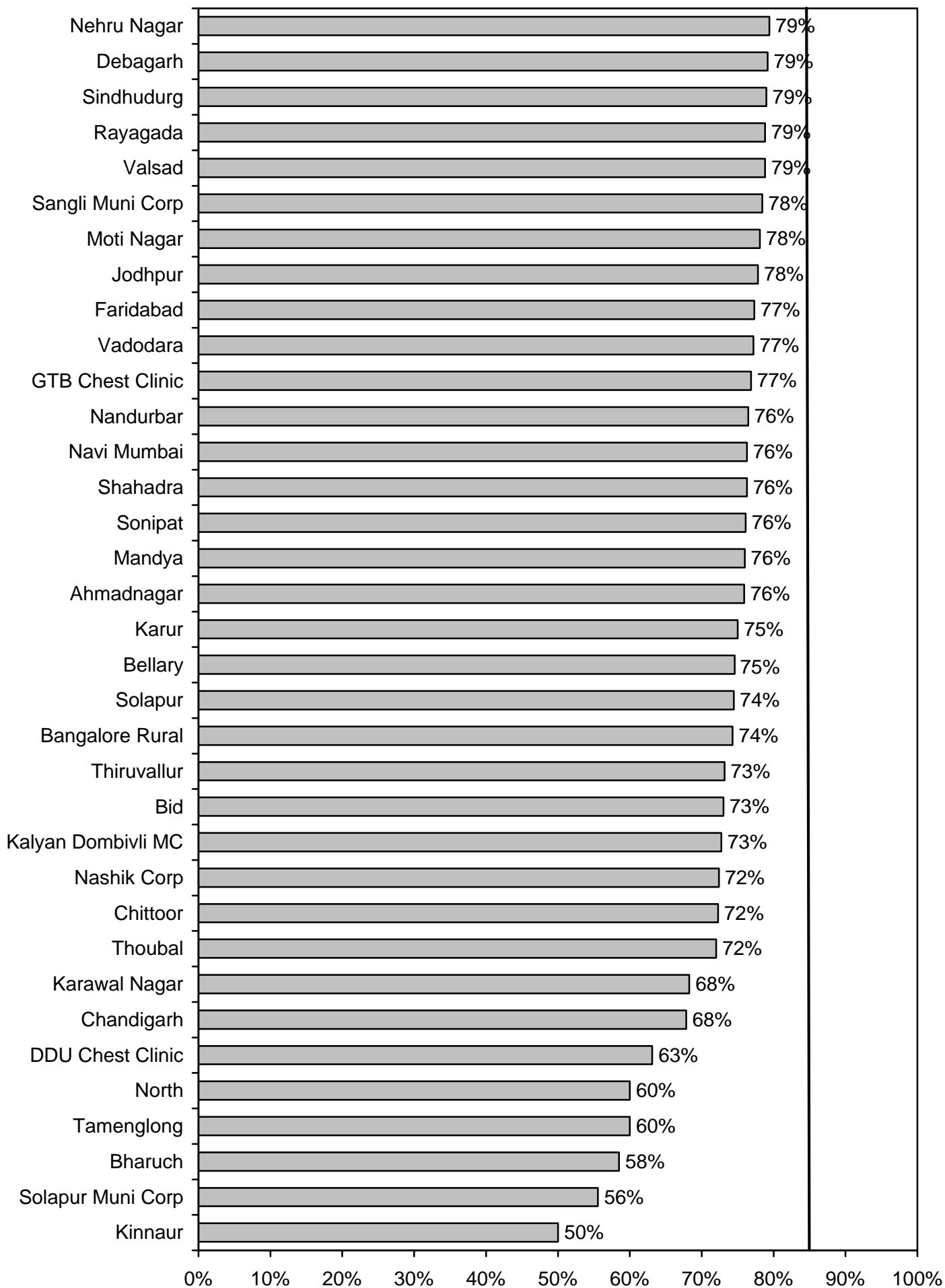
**Twenty-nine (9%) districts with a high ratio of new sputum-negative to new sputum-positive patients, fourth quarter of 2002
(all other districts had a ratio ≤ 1.2)**



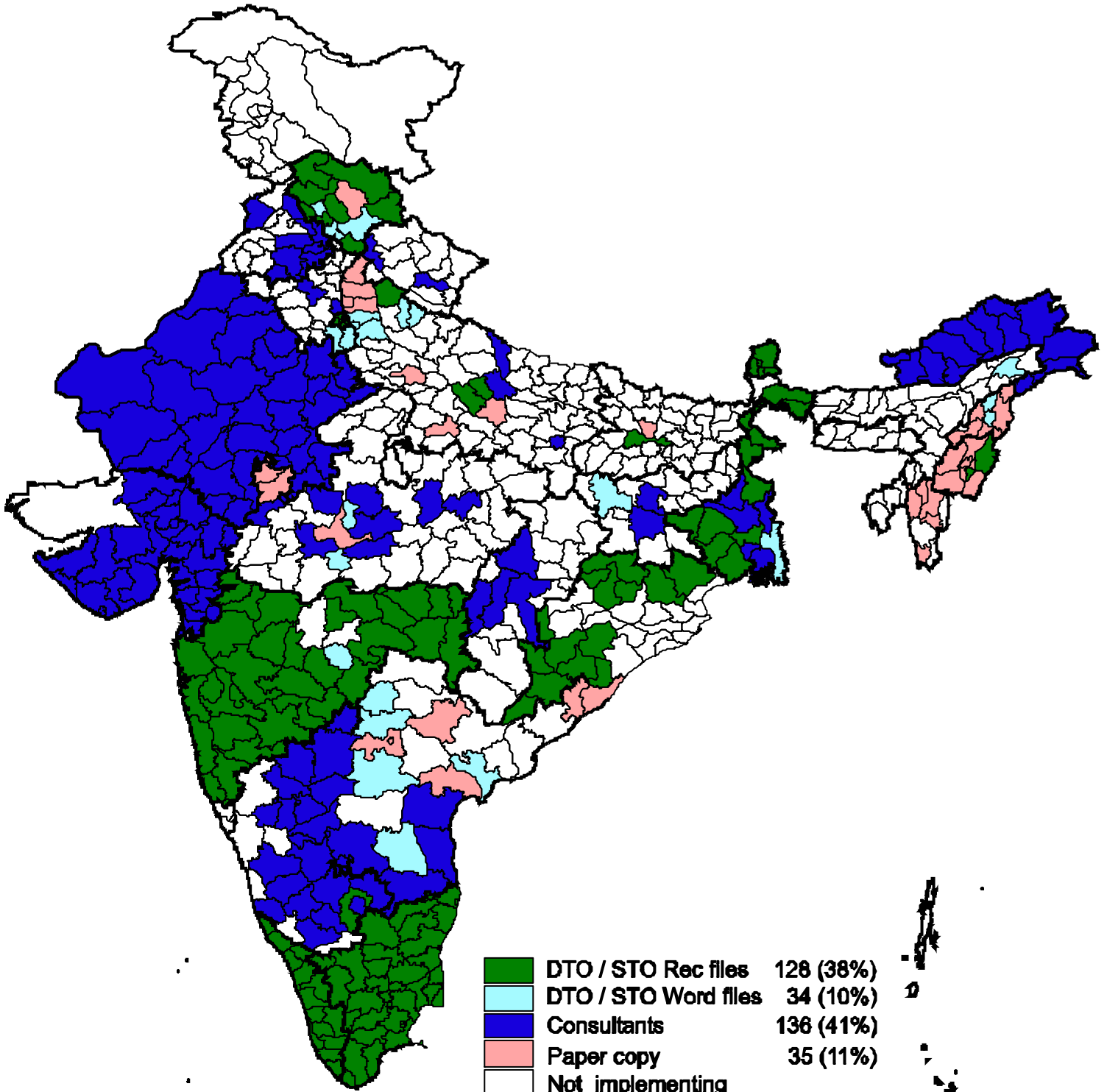
**Seventeen (5%) districts with low sputum conversion rate among new sputum-positive patients at 3 months, third quarter of 2002
(all other districts had conversion rates >80%)**



Thirty-five (11%) districts with low cure rates among new sputum-positive patients, fourth quarter of 2001 (all other districts had cure rates > 80%)



Status of electronic submission of quarterly reports, India First quarter, 2003



Cure rate by district, India

First quarter, 2002

