

Table 1 Treatment outcomes of newly notified pulmonary tuberculosis patients in 2009 by patient classification

	Pulmonary tuberculosis									
	Total	Sputum smear positive				Other bacteriologically		Bacteriologically		
		New	Re-treatment	-positive	-negative					
New pulmonary tuberculosis cases in 2009	18,633 (100%)	8,772 (100%)	817 (100%)	5,977 (100%)	3,067 (100%)					
Treatment outcomes (*)										
1. Treatment success	10,205	54.8	4,536	51.7	373	45.7	3,465	58.0	1,831	59.7
Cure	2,919	15.7	1,814	20.7	156	19.1	686	11.5	263	8.6
Treatment completed	7,286	39.1	2,722	31.0	217	26.6	2,779	46.5	1,568	51.1
Treatment completed 1	5,967	32.0	2,382	27.2	190	23.3	1,830	30.6	1,565	51.0
Treatment completed 2	1,319	7.1	340	3.9	27	3.3	949	15.9	3	0.1
2. Died	2,641	14.2	1,693	19.3	157	19.2	616	10.3	175	5.7
3. Treatment Failure	114	0.6	79	0.9	10	1.2	22	0.4	3	0.1
4. Default	1,355	7.3	325	3.7	29	3.5	569	9.5	432	14.1
Default 1	208	1.1	71	0.8	10	1.2	71	1.2	56	1.8
Default 2	1,147	6.2	254	2.9	19	2.3	498	8.3	376	12.3
5. Transfer out	517	2.8	288	3.3	25	3.1	126	2.1	78	2.5
6. Still on treatment	1,745	9.4	944	10.8	112	13.7	498	8.3	191	6.2
Still on treatment 1	293	1.6	175	2.0	19	2.3	84	1.4	15	0.5
Still on treatment 2	1,452	7.8	769	8.8	93	11.4	414	6.9	176	5.7
7. Unclassified	2,056	11.0	907	10.3	111	13.6	681	11.4	357	11.6
Unclassified 1	431	2.3	187	2.1	9	1.1	174	2.9	61	2.0
Unclassified 2	205	1.1	126	1.4	7	0.9	59	1.0	13	0.4
Unclassified 3	495	2.7	221	2.5	59	7.2	134	2.2	81	2.6
Unclassified 4	237	1.3	116	1.3	10	1.2	85	1.4	26	0.8
Unclassified 5	688	3.7	257	2.9	26	3.2	229	3.8	176	5.7

* Treatment outcomes: See Table 2.

Table 2 Treatment outcomes of newly notified sputum smear positive pulmonary tuberculosis patients, 2006–2009 year cohorts

Treatment outcomes	Definition	2006	2007	2008	2009
		n= 9,784	9,421	8,999	8,772
1 Cure	A patient who completed treatment within 12 months and whose sputum culture tests were negative at least two times (one of the negative culture results was within three months before the completion of treatment).	17.5	16.9	17.6	20.7
2 Treatment completed 1	A patient who completed treatment within 12 months but had only one negative sputum culture result.	24.7	24.9	26.8	27.2
3 Treatment completed 2	A patient who completed treatment within 12 months but did not have a negative sputum culture result.	4.2	3.8	3.4	3.9
4 Died	A patient who died for any reason during the course of treatment.	18.9	18.4	19.1	19.3
5 Treatment failure	A patient whose sputum culture was positive at 5 months or later during the course of treatment.	1.3	1.0	1.1	0.9
6 Default 1	A patient whose treatment was interrupted for 60 days (or 2 consecutive months) or more.	0.8	0.7	0.6	0.8
7 Default 2	A patient whose physician stopped treatment but the amount of treatment days did not fulfilled the standard duration.	4.4	4.3	3.2	2.9
8 Transfer out	A patient who has been transferred to another area of the public health center where the patient was registered.	3.0	3.2	2.8	3.3
9 Still on treatment 1	A patient who stopped Isoniazid (INH) and/or Rifampicin (RFP) and was still on treatment after 12 months.	1.5	1.7	1.4	2.0
10 Still on treatment 2	A patient who was still on treatment after 12 months, and was other than the case of "Still on treatment 1".	10.5	10.3	10.5	8.8
11 Unclassified 1	A patient who did not start tuberculosis treatment (due mostly to early death).	1.5	1.9	2.2	2.1
12 Unclassified 2	A patient whose initial treatment regimen was unknown.	4.2	4.3	3.9	1.4
13 Unclassified 3	A patient whose treatment regimen was other than the standard.	2.1	2.5	2.7	2.5
14 Unclassified 4	A patient who stopped INH and/or RFP but completed treatment within 12 months.	1.1	1.1	1.1	1.3
15 Unclassified 5	A patient whose information was insufficient for classifying treatment outcome.	4.3	5.1	3.8	2.9

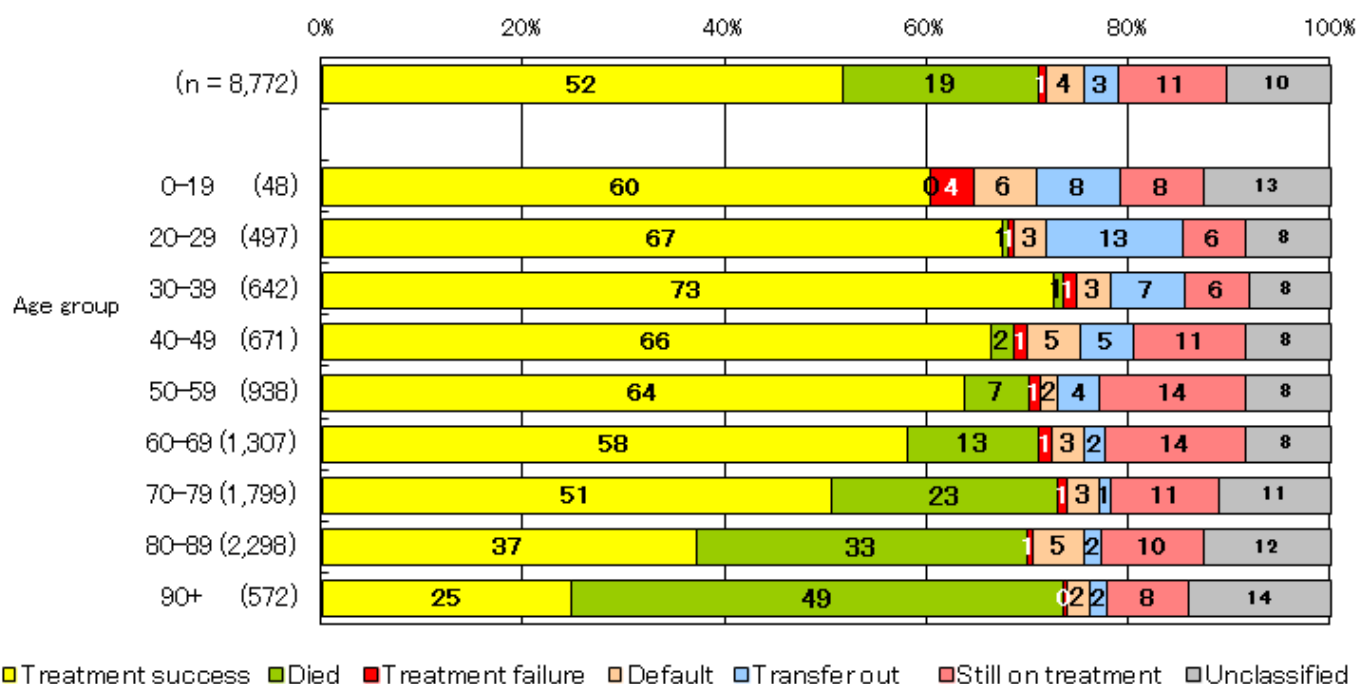


Figure 1 Treatment outcomes of newly notified sputum smear positive pulmonary tuberculosis patients in 2009 by age group (%)

Table 3 Number (proportion) of cases cancelled from tuberculosis registration by the end of years (in 2008, in 2009, in 2010) among those newly notified tuberculosis patients and LTBI patients in the previous years (in 2007, in 2008, in 2009) by patient classification

	Newly notified tuberculosis patients							(Not included in the total) LTBI patients
	Total	Pulmonary tuberculosis					Extra-pulmonary	
		Sub-total (Pulmonary tuberculosis)	Sputum smear positive		Other bacteriologically-positive	bacteriologically-negative		
			New	Re-treatment				
New TB cases in 2007*	25,184 (100%)	19,820 (100%)	9,421 (100%)	783 (100%)	6,010 (100%)	3,606 (100%)	5,364 (100%)	2,942 (100%)
Total of cancellation by the end of 2008	7,402 (29.4)	5,683 (28.7)	3,086 (32.8)	233 (29.8)	1,433 (23.8)	931 (25.8)	1,719 (32.0)	1,231 (41.8)
No need for follow-up	1,205 (4.8)	605 (3.1)	73 (0.8)	11 (1.4)	182 (3.0)	339 (9.4)	600 (11.2)	1,066 (36.2)
Died	4,889 (19.4)	3,953 (19.9)	2,423 (25.7)	177 (22.6)	953 (15.9)	400 (11.1)	936 (17.4)	5 (0.2)
TB death	1,477 (5.9)	1,292 (6.5)	996 (10.6)	73 (9.3)	156 (2.6)	67 (1.9)	185 (3.4)	0 (0.0)
Other death	3,412 (13.5)	2,661 (13.4)	1,427 (15.1)	104 (13.3)	797 (13.3)	333 (9.2)	751 (14.0)	5 (0.2)
Transfer out	943 (3.7)	813 (4.1)	455 (4.8)	21 (2.7)	208 (3.5)	129 (3.6)	130 (2.4)	97 (3.3)
Re-treatment during registration	170 (0.7)	152 (0.8)	68 (0.7)	18 (2.3)	45 (0.7)	21 (0.6)	18 (0.3)	5 (0.2)
Other reasons	195 (0.8)	160 (0.8)	67 (0.7)	6 (0.8)	45 (0.7)	42 (1.2)	35 (0.7)	58 (2.0)
New TB cases in 2008**	24,571 (100%)	19,274 (100%)	8,999 (100%)	826 (100%)	6,172 (100%)	3,277 (100%)	5,297 (100%)	4,834 (100%)
Total of cancellation by the end of 2009	7,371 (30.0)	5,635 (29.2)	2,977 (33.1)	274 (33.2)	1,553 (25.2)	831 (25.4)	1,736 (32.8)	2,043 (42.8)
No need for follow-up	1,132 (4.6)	563 (2.9)	61 (0.7)	14 (1.7)	196 (3.2)	292 (8.9)	569 (10.7)	1,718 (35.5)
Died	4,918 (20.0)	3,958 (20.5)	2,380 (26.4)	216 (26.2)	1,055 (17.1)	307 (9.4)	960 (18.1)	26 (0.5)
TB death	1,428 (5.8)	1,238 (6.4)	943 (10.5)	70 (8.5)	180 (2.9)	45 (1.4)	190 (3.6)	0 (0.0)
Other death	3,490 (14.2)	2,720 (14.1)	1,437 (16.0)	146 (17.7)	875 (14.2)	262 (8.0)	770 (14.5)	26 (0.5)
Transfer out	942 (3.8)	805 (4.2)	393 (4.4)	31 (3.8)	218 (3.5)	163 (5.0)	137 (2.6)	162 (3.4)
Re-treatment during registration	174 (0.7)	150 (0.8)	80 (0.9)	10 (1.2)	39 (0.6)	21 (0.6)	24 (0.5)	28 (0.6)
Other reasons	205 (0.8)	159 (0.8)	63 (0.7)	3 (0.4)	45 (0.7)	48 (1.5)	46 (0.9)	109 (2.3)
New TB cases in 2009***	23,779 (100%)	18,633 (100%)	8,772 (100%)	817 (100%)	5,977 (100%)	3,067 (100%)	5,146 (100%)	4,057 (100%)
Total of cancellation by the end of 2010	6,685 (28.1)	5,209 (28.0)	2,927 (33.4)	281 (34.4)	1,360 (22.8)	641 (20.9)	1,476 (28.7)	1,214 (29.9)
No need for follow-up	602 (2.5)	277 (1.5)	20 (0.2)	7 (0.9)	78 (1.3)	172 (5.6)	325 (6.3)	979 (24.1)
Died	4,811 (20.2)	3,856 (20.7)	2,356 (26.9)	224 (27.4)	993 (16.6)	283 (9.2)	955 (18.6)	20 (0.5)
TB death	1,419 (6.0)	1,215 (6.5)	932 (10.6)	84 (10.3)	150 (2.5)	49 (1.6)	204 (4.0)	1 (0.0)
Other death	3,392 (14.3)	2,641 (14.2)	1,424 (16.2)	140 (17.1)	843 (14.1)	234 (7.6)	751 (14.6)	19 (0.5)
Transfer out	976 (4.1)	831 (4.5)	437 (5.0)	35 (4.3)	220 (3.7)	139 (4.5)	145 (2.8)	139 (3.4)
Re-treatment during registration	163 (0.7)	139 (0.7)	70 (0.8)	14 (1.7)	40 (0.7)	15 (0.5)	24 (0.5)	21 (0.5)
Other reasons	133 (0.6)	106 (0.6)	44 (0.5)	1 (0.1)	29 (0.5)	32 (1.0)	27 (0.5)	55 (1.4)

*: Based on the annual report database in 2008. **: Based on the annual report database in 2009. ***: Based on the annual report database in 2010. TB: tuberculosis. LTBI: Latent Tuberculosis Infection.

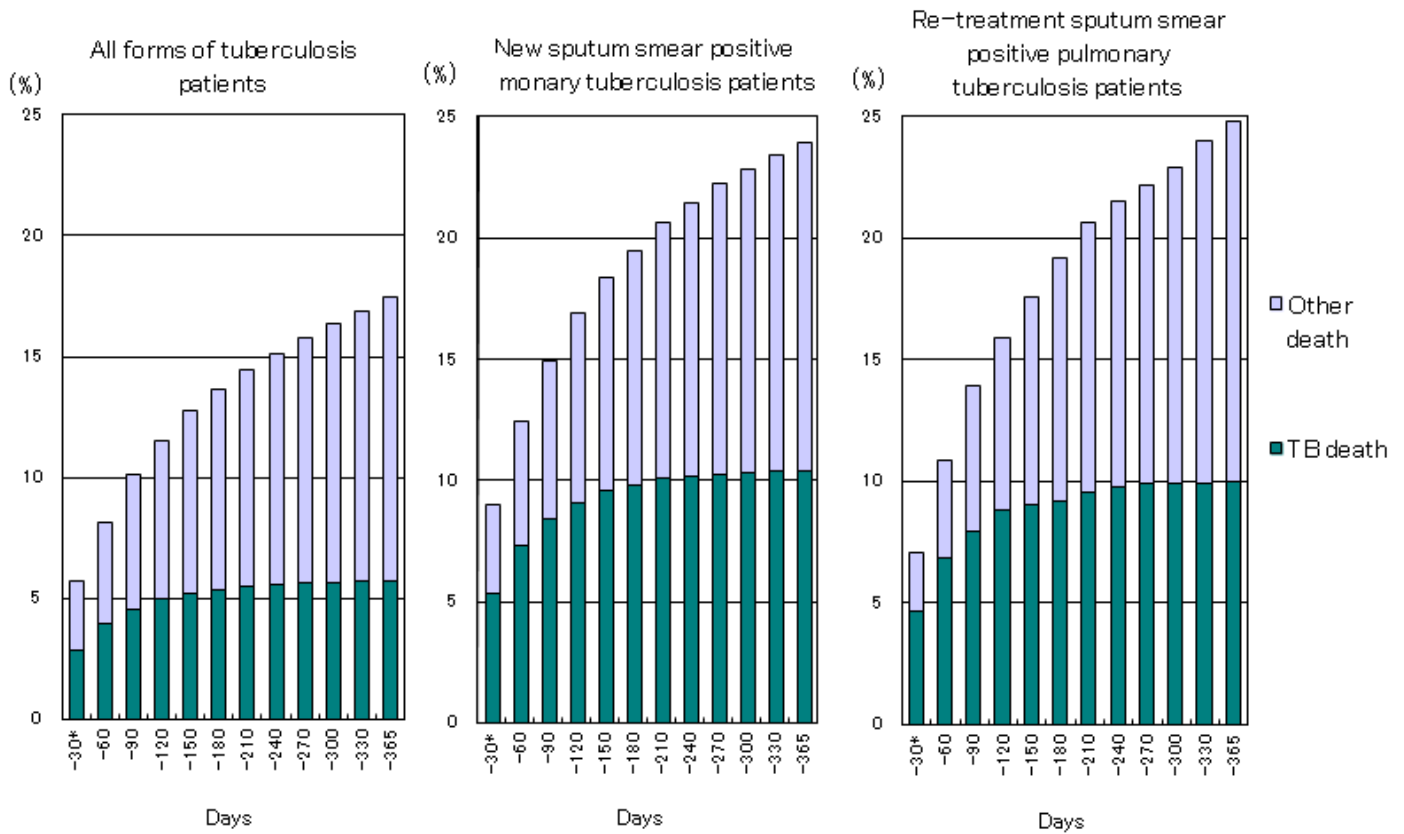


Figure 2 Cumulative proportion of deaths among newly notified tuberculosis patients in 2009 by period from the beginning of treatment through one year

-30*: Includes cases who died before the commencement of treatment.

TB: tuberculosis.