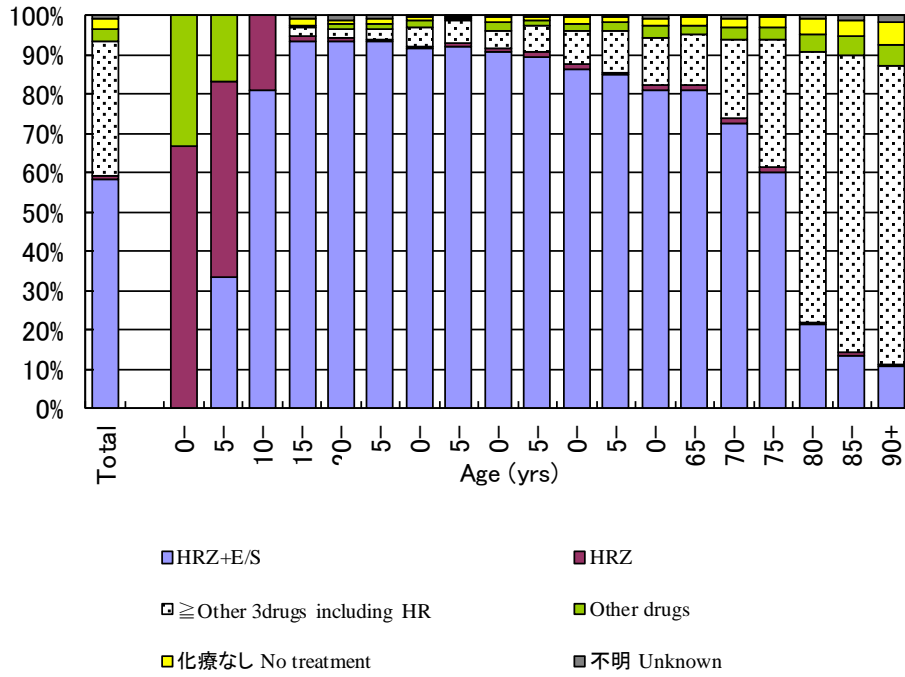


【Treatment 1】

Fig.1 Initial treatment regimen of newly notified tuberculosis patients by age group, 2012



H: Isoniazid, R: Rifampicin, Z: Pyrazinamide, E: Ethambutol, S: Streptomycin

Table 1 Number of tuberculosis patients by treatment history and age group, 2012

Age group	Newly notified tuberculosis patients	Treatment history				Proportion of re-treatment tuberculosis patients (%)
		New	Re-treatment		Unknown	
			Re-treatment, all	Re-treatment, past history of LTBI treatment (re-count)		
Total	21,283	19,576	1,336	95	371	6.4
0-4	30	30	0	0	0	0.0
5-9	12	10	2	1	0	16.7
10-14	21	20	1	1	0	4.8
15-19	165	151	14	12	0	8.5
20-24	568	535	27	8	6	4.8
25-29	720	677	39	11	4	5.4
30-34	712	675	32	9	5	4.5
35-39	816	764	47	5	5	5.8
40-44	850	803	45	9	2	5.3
45-49	750	686	61	10	3	8.2
50-54	789	749	36	3	4	4.6
55-59	1,006	923	81	9	2	8.1
60-64	1,537	1,425	91	5	21	6.0
65-69	1,475	1,355	108	4	12	7.4
70-74	1,984	1,802	140	2	42	7.2
75-79	2,611	2,378	187	4	46	7.3
80-84	3,100	2,813	211	1	76	7.0
85-89	2,653	2,401	162	1	90	6.3
90+	1,484	1,379	52	0	53	3.6

Proportion of re-treatment tuberculosis patients: those of unknown treatment history excluded

LTBI: Latent Tuberculosis Infection

Table 2 Number of retreatment tuberculosis patients by previous treatment year and age group, 2012

Year	Total	Age group (yrs)								(Re-count)*
		0-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	
Total	1,336	17	66	79	106	117	199	327	425	165
~1949	97	0	0	0	0	0	4	12	81	10
1950-59	190	0	0	0	0	1	7	72	110	11
1960-69	99	0	0	0	1	4	22	37	35	8
1970-79	52	0	0	1	1	5	8	20	17	5
1980-89	54	0	0	2	5	14	12	11	10	2
1990-99	92	1	2	6	18	14	18	22	11	14
2000-09	407	8	25	36	44	50	71	84	89	46
2010-12	342	8	39	33	37	29	57	69	70	68
Unknown	3	0	0	1	0	0	0	0	2	1
(Re-count) 2000-2012										
2000	11	0	0	0	2	2	2	3	2	0
2001	19	0	1	3	2	1	4	4	4	3
2002	26	2	1	1	4	2	2	11	3	4
2003	21	0	2	0	2	3	1	9	4	3
2004	34	0	2	5	4	7	6	6	4	5
2005	29	0	3	2	3	4	7	5	5	3
2006	47	0	3	9	3	3	9	7	13	5
2007	47	1	1	7	4	7	10	7	10	2
2008	82	0	5	4	10	11	16	13	23	9
2009	91	5	7	5	10	10	14	19	21	12
2010	138	1	13	11	13	12	25	30	33	16
2011	167	4	19	19	18	15	28	32	32	26
2012	37	3	7	3	6	2	4	7	5	26

*(Re-count) Unknown of previous treatment regimen

Table 3 Treatment with PZA in initial phase among newly notified tuberculosis patients in 2011 and completed standard treatment

	Total	Completed (%)
Total	13,650	11,225 (100)
2 months	8,609	8,252 (89.5)
≥ 1 month and < 2 months	607	503 (5.5)
< 1 month	601	463 (5.0)
Unknown	3,833	2,007 (-)

(%) : Proportions: unknown cases excluded

PZA: Pyrazinamide

Previous table Number of retreatment tuberculosis patients by previous tuberculosis treatment regimen and age group, 2012

Age group	Retreatment	Previous treatment regimen				
		Regimen with HRZ	Other regimen with HR	Other regimen	LTBI treatment	Unknown
総数 Total	1,266	398	241	173	95	359
0-4	0	0	0	0	0	0
5-9	1	0	0	0	1	0
10-14	1	0	0	0	1	0
15-19	14	2	0	0	12	0
20-24	27	15	1	0	8	3
25-29	37	16	2	0	11	8
30-34	32	16	3	1	9	3
35-39	45	25	8	1	5	6
40-44	43	20	7	0	9	7
45-49	58	28	10	0	10	10
50-54	35	15	8	0	3	9
55-59	79	30	17	3	9	20
60-64	88	42	12	5	5	24
65-69	100	43	15	16	4	22
70-74	129	43	26	22	2	36
75-79	175	47	25	35	4	64
80-84	200	41	37	47	1	74
85-89	155	10	56	35	1	53
90+	47	5	14	8	0	20

H : Isoniazid, R : Rifampicin, Z : Pyrazinamide

LTBI : Latent Tuberculosis Infection

【Treatment2】

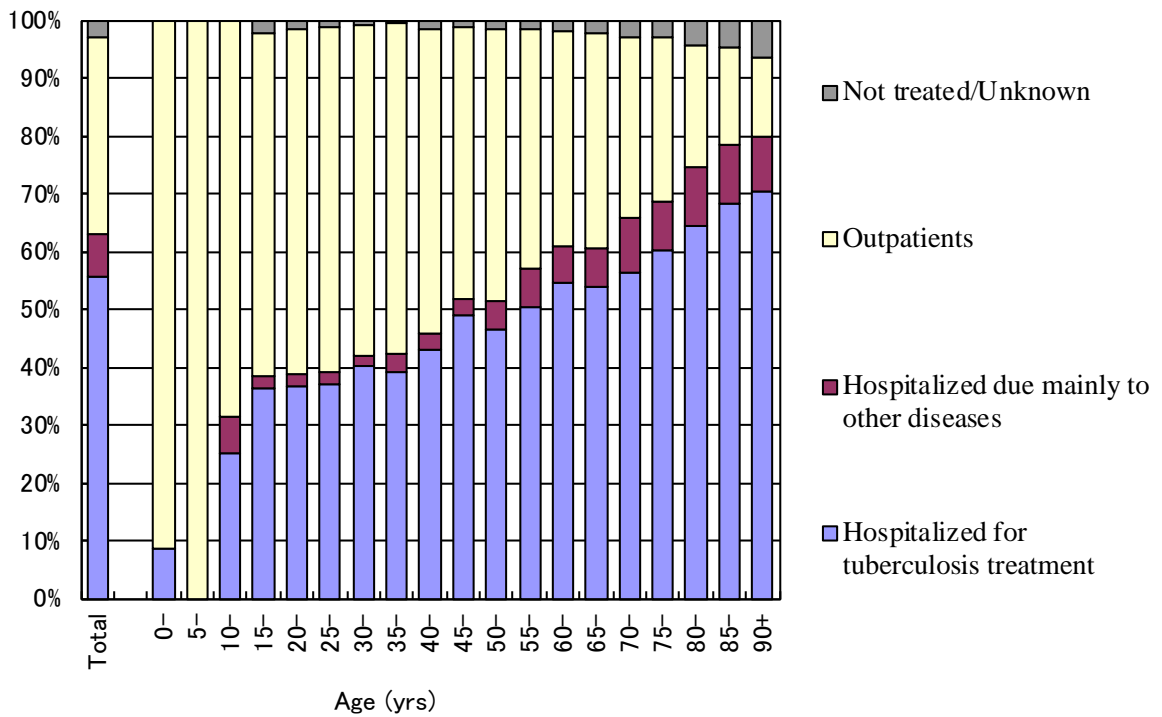


Fig.2 Proportion of initial treatment status among newly notified pulmonary tuberculosis patients by age group, 2012

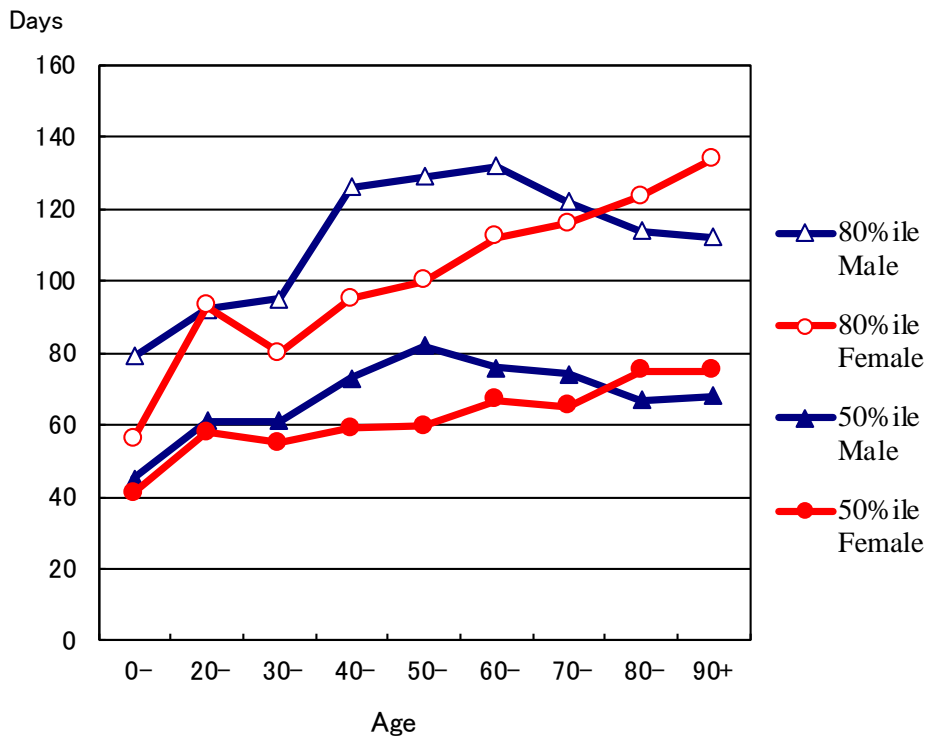


Fig.3 Median (50% ile) and 80% ile of duration of hospitalization among those hospitalized with tuberculosis and with known discharged day, new sputum-smear positive pulmonary tuberculosis patients in 2011 by sex

Table 4 Duration of hospitalization among newly notified tuberculosis patients receiving initial treatment at hospital in 2011 by patient classification

	Newly notified tuberculosis patients						
	Total	Pulmonary tuberculosis patients					Extra-pulmonary tuberculosis patients
		Total	Sputum-smear positive		Other bacteriologically positive	Bacteriologically negative and others	
			New	Re-treatment			
Total	22,508	17,449	7,736	747	6,049	2,917	5,059
Hospitalized with tuberculosis	10,922	9,510	7,046	641	1,475	348	1,412
Known date of discharge	8,690	7,743	5,872	532	1,108	231	947
Duration of hospitalization among those hospitalized with tuberculosis and with known date of discharge							
Median (days)	64	66	70	72	44	39	43
80% ile (days)	114	116	118	122	95	107	99

*: Irrespective of the reason for discharge from hospital

Table 5 Treatment status and duration of treatment at the end of the following years (2011/2012) among those newly notified and started tuberculosis treatment in the previous years (2010/2011) by patient classification

	Newly notified tuberculosis patients							
	Total	Pulmonary tuberculosis patients						(Not included in the total) LTBI
		Total	Sputum-smear positive		Other bacteriologically positive	Bacteriologically negative and others	Extra-pulmonary tuberculosis patients	
			New	Re-treatment				
New cases in 2010*	23,155	18,277	8,242	794	6,358	2,883	4,878	4,902
Known treatment status	22,612 (100%)	17,819 (100%)	8,068 (100%)	780 (100%)	6,138 (100%)	2,833 (100%)	4,793 (100%)	4,826 (100%)
Stopped treatment	18,010 (79.6)	14,207 (79.7)	6,106 (75.7)	566 (72.6)	5,098 (83.1)	2,437 (86.0)	3,803 (79.3)	4,461 (92.4)
Completed	16,072 (71.1)	12,704 (71.3)	5,294 (65.6)	475 (60.9)	4,694 (76.5)	2,241 (79.1)	3,368 (70.3)	4,018 (83.3)
Others	1,732 (7.7)	1,336 (7.5)	735 (9.1)	82 (10.5)	361 (5.9)	158 (5.6)	396 (8.3)	337 (7.0)
Defaulted	197 (0.9)	160 (0.9)	72 (0.9)	9 (1.2)	41 (0.7)	38 (1.3)	37 (0.8)	99 (2.1)
Unknown	9 (0.0)	7 (0.0)	5 (0.1)	0 (0.0)	2 (0.0)	0 (0.0)	2 (0.0)	7 (0.1)
Median of duration of treatment among those completed treatment and still receiving treatment								
Subjects#	17,435	13,698	5,740	547	5,002	2,409	3,737	4,225
Median (days)	272	272	276	290	244	197	272	183
New cases in 2011**	22,508	17,449	7,736	747	6,049	2,917	5,059	10,096
Known treatment status	21,984 (100%)	17,001 (100%)	7,587 (100%)	734 (100%)	5,825 (100%)	2,855 (100%)	4,983 (100%)	10,015 (100%)
Stopped treatment	18,525 (84.3)	14,318 (84.2)	6,126 (80.7)	574 (78.2)	5,058 (86.8)	2,560 (89.7)	4,207 (84.4)	9,318 (93.0)
Completed	16,099 (73.2)	12,493 (73.5)	5,118 (67.5)	461 (62.8)	4,570 (78.5)	2,344 (82.1)	3,606 (72.4)	8,232 (82.2)
Others	1,398 (6.4)	1,009 (5.9)	546 (7.2)	62 (8.4)	271 (4.7)	130 (4.6)	389 (7.8)	899 (9.0)
Defaulted	178 (0.8)	147 (0.9)	60 (0.8)	8 (1.1)	49 (0.8)	30 (1.1)	31 (0.6)	170 (1.7)
Missing/Moved out of japan /Dead	838 (3.8)	658 (3.9)	399 (5.3)	42 (5.7)	166 (2.8)	51 (1.8)	180 (3.6)	11 (0.1)
Unknown	12 (0.1)	11 (0.1)	3 (0.0)	1 (0.1)	2 (0.0)	5 (0.2)	1 (0.0)	6 (0.1)
Median of duration of treatment among those completed treatment and still receiving treatment								
Subjects#	16,742	12,930	5,299	491	4,718	2,422	3,812	8,609
Median (days)	273	272	276	288	269	196	274	184

*: Based on the annual report database in 2011 **: Based on the annual report database in 2012

Subjects: Those who completed tuberculosis treatment or those who were still receiving treatment at the end of years (2011/2012).

LTBI: Latent Tuberculosis Infection

Previous table Proportion (%) hospitalized among newly notified tuberculosis patients in 2012 by age group and patient classification

Age	Pulmonary TB								Extra-pulmonary	
	Total		Sputum smear positive		Other bacillary positive		Bacillary negative /unknown			
	Ht	Ho	Ht	Ho	Ht	Ho	Ht	Ho	Ht	Ho
Total	55.7	7.2	90.3	2.3	25.0	13.2	11.5	9.5	28.7	21.1
0-19	30.5	2.1	88.9	0.0	24.5	8.2	5.4	0.0	41.5	7.3
20-29	36.8	2.0	94.7	0.6	15.8	3.0	4.9	2.3	19.4	12.4
30-39	39.6	2.4	90.8	0.2	13.8	4.4	7.2	2.6	17.7	10.8
40-49	45.7	2.9	89.7	0.5	15.6	5.0	7.5	4.3	16.5	12.6
50-59	48.7	5.8	89.9	2.2	15.7	8.4	7.3	9.8	23.6	16.2
60-69	54.3	6.4	90.1	2.3	21.5	11.0	13.9	9.2	22.2	18.3
70-79	58.6	8.8	91.3	2.5	23.8	15.5	12.1	17.8	28.4	22.9
80-89	66.1	10.3	89.6	3.1	35.0	20.4	24.5	20.7	36.1	25.3
90+	70.2	9.7	89.1	3.1	43.2	20.4	33.3	15.2	39.9	30.2

Ht: Hospitalized for tuberculosis treatment

Ho: Hospitalized mainly due to other diseases

Previous table Outcome of treatment with INH or RFP in initial phase among those newly notified TB patients in 2011 by completion of standard regimen

	Treatment with INH		Treatment with RFP	
	Total	Completed	Total	Completed
Total	21,647	15,976 (100%)	21,484	15,964 (100%)
Full course without interruption	12,091	11,359 (71.1)	12,171	11,516 (72.1)
Full course with interruption	1,165	963 (6.0)	1,211	1,018 (6.4)
Interrupted and discontinued	727	413 (2.6)	539	194 (1.2)
Unknown*	7,664	3,241 (20.3)	7,563	3,236 (20.3)

*: Including those who were still receiving treatment with INH or RFP and those who were deleted from registration during their treatment.

INH : Isoniazid, RFP : Rifampicin

【Treatment Outcomes】

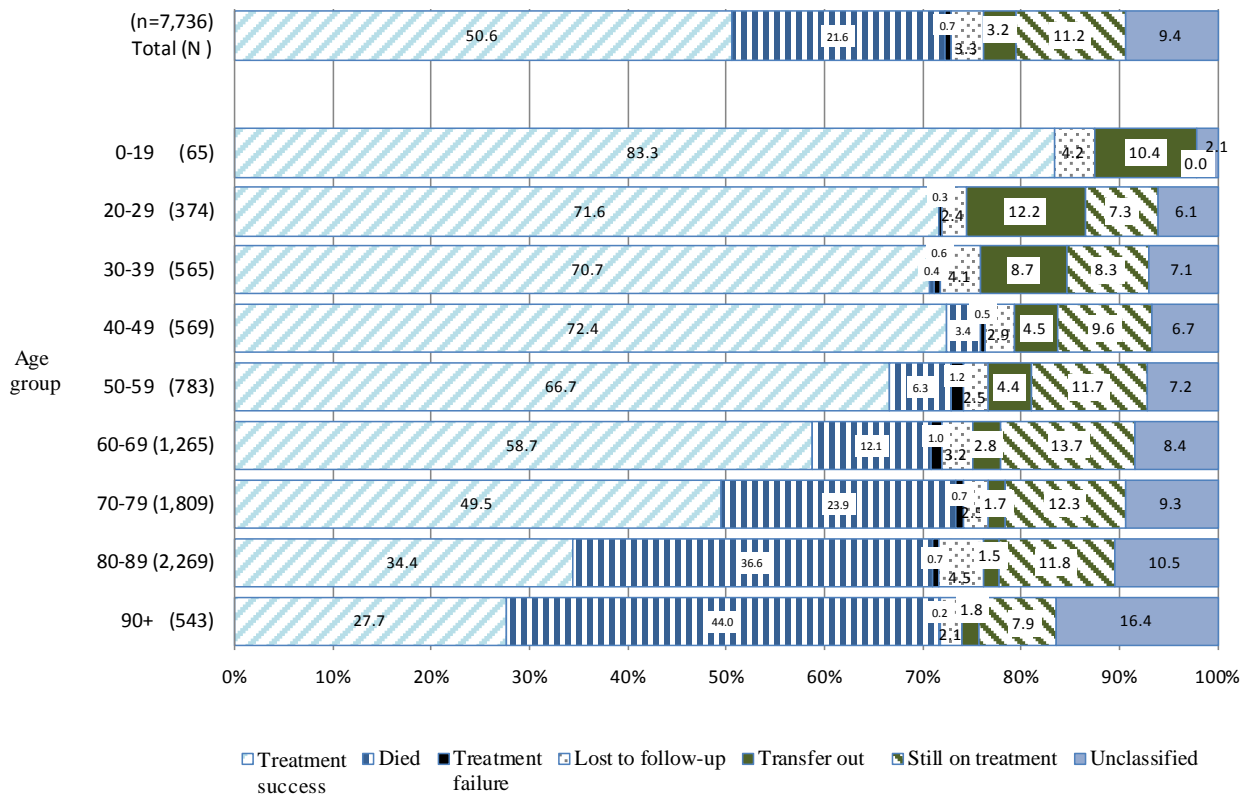


Fig. 4 Treatment outcomes of newly notified sputum-smear positive pulmonary tuberculosis patients by age group, 2011 year cohort (%)

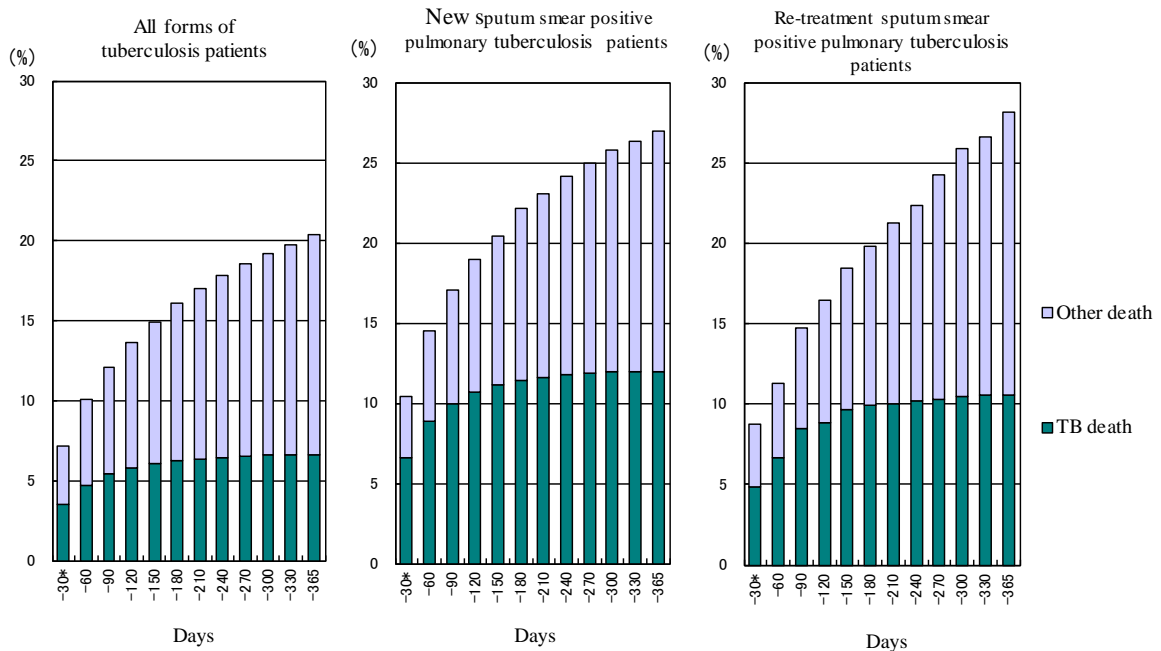


Fig. 5 Cumulative proportion of deaths among newly notified tuberculosis patients in 2011 by period from the beginning of treatment through one year

-30*: Includes patients who died before the commencement of treatment.
TB: tuberculosis

Table 6 Treatment outcome of newly notified pulmonary tuberculosis patients by patient classification, 2011 year cohort

	Pulmonary tuberculosis patients									
	Total		Sputum-smear positive				Other bacteriologically positive	Bacteriologically negative and others		
			New		Retreatment					
New pulmonary tuberculosis patients	17,449	(100%)	7,736	(100%)	747	(100%)	6,049	(100%)	2,917	(100%)
Treatment outcomes (*)										
1. Treatment Success	9,550	54.7	3,911	50.6	308	41.2	3,508	58.0	1,823	62.5
Cure	2,764	15.8	1,544	20.0	136	18.2	779	12.9	305	10.5
Treatment completed	6,786	38.9	2,367	30.6	172	23.0	2,729	45.1	1,518	52.0
Treatment Completed 1	4,535	26.0	1,600	20.7	117	15.7	1,301	21.5	1,517	52.0
Treatment Completed 2	2,251	12.9	767	9.9	55	7.4	1,428	23.6	1	0.0
2. Died	2,754	15.8	1,673	21.6	159	21.3	739	12.2	183	6.3
3. Treatment failed	173	1.0	56	0.7	10	1.3	100	1.7	7	0.2
4. Lost to follow-up	1,004	5.8	255	3.3	25	3.3	406	6.7	318	10.9
Lost to follow-up 1	262	1.5	82	1.1	13	1.7	85	1.4	82	2.8
Lost to follow-up 2	742	4.3	173	2.2	12	1.6	321	5.3	236	8.1
5. Transferred out	513	2.9	250	3.2	32	4.3	136	2.2	95	3.3
6. Still on treatment	1,671	9.6	867	11.2	114	15.3	515	8.5	175	6.0
Still on treatment 1	272	1.6	140	1.8	22	2.9	88	1.5	22	0.8
Still on treatment 2	203	1.2	104	1.3	9	1.2	64	1.1	26	0.9
Still on treatment 3	569	3.3	318	4.1	34	4.6	173	2.9	44	1.5
Still on treatment 4	627	3.6	305	3.9	49	6.6	190	3.1	83	2.8
7. Unclassified	1,784	10.2	724	9.4	99	13.3	645	10.7	316	10.8
Unclassified 1	149	0.9	58	0.7	5	0.7	66	1.1	20	0.7
Unclassified 2	142	0.8	80	1.0	8	1.1	37	0.6	17	0.6
Unclassified 3	766	4.4	319	4.1	56	7.5	278	4.6	113	3.9
Unclassified 4	105	0.6	31	0.4	3	0.4	53	0.9	18	0.6
Unclassified 5	622	3.6	236	3.1	27	3.6	211	3.5	148	5.1

*Treatment outcomes: See Table 7. It includes those who did not start tuberculosis treatment (mostly caused by early death), those whose initial treatment regimen is unknown, those whose treatment is other than standard treatment, those who stopped INH and/or RFP before treatment completion, and those whose information is insufficient for classifying treatment outcomes.

INH: isoniazid, RFP: rifampicin

Table 7 Treatment outcomes of newly notified sputum smear positive pulmonary tuberculosis patients, 2007–2011 year cohorts (%)

Treatment outcomes	Definition	2007	2008	2009	2010	2011	
		n=	9,421	8,999	8,772	8,242	7,736
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).	16.9	17.6	20.7	20.1	20.0	
2. Treatment completed 1	A patient who completed treatment within 12 months but had only one negative sputum culture result.	24.9	26.8	27.2	27.4	20.7	
3. Treatment completed 2	A patient who completed treatment within 12 months but did not have a negative sputum culture result.	3.8	3.4	3.9	4.5	9.9	
4. Died	A patient who died for any reason during the course of treatment.	18.4	19.1	19.3	20.8	21.6	
5. Treatment failure	A patient whose sputum culture was positive at 5 months or later during the course of treatment.	1.0	1.1	0.9	0.7	0.7	
6. Lost to follow-up 1	A patient whose treatment was interrupted for 60 days (or 2 consecutive months) or more.	0.7	0.6	0.8	0.6	1.1	
7. Lost to follow-up 2	A patient whose physician stopped treatment but the amount of treatment days did not fulfil the standard duration.	4.3	3.2	2.9	2.3	2.2	
8. Transferred out	A patient who has been transferred to another area of the public health center where the patient was registered.	3.2	2.8	3.3	3.0	3.2	
9. Still on treatment 1	A patient who stopped Isoniazid (INH) and/or Rifampicin (RFP) and was still on treatment after 12 months.	1.7	1.4	2.0	1.6	1.8	
10. Still on treatment 2*	A patient who has been on treatment with INH and/or RFP and was still on treatment after 12 months due possibly to treatment interruption.	10.3	10.5	8.8	8.3	1.3	
11. Still on treatment 3	A patient who has been on treatment with INH and/or RFP and was still on treatment after 12 months without treatment interruption.					4.1	
12. Still on treatment 4	A patient who has been on treatment with INH and/or RFP and was still on treatment after 12 months due to unknown reasons.					3.9	
13. Unclassified 1	A patient who did not start tuberculosis treatment (due mostly to early death).	1.9	2.2	2.1	2.1	0.7	
14. Unclassified 2	A patient whose initial treatment regimen was unknown.	4.3	3.9	1.4	1.2	1.0	
15. Unclassified 3	A patient whose treatment regimen was other than the standard.	2.5	2.7	2.5	2.7	4.1	
16. Unclassified 4	A patient who stopped INH and/or RFP but completed treatment within 12 months.	1.1	1.1	1.3	1.1	0.4	
17. Unclassified 5	A patient whose information was insufficient for classifying treatment outcome.	5.1	3.8	2.9	3.5	3.1	

*There were two categories of "Still on treatment" until 2010 cohorts. Since 2011, the categories have been divided into four kinds as indicated.

	Newly notified tuberculosis patients											
	Total	Pulmonary tuberculosis									Extra-pulmonary LTBI patients (Not included in the total)	
		Sub-total (Pulmonary tuberculosis)	Sputum-smear positive				Other bacillary positive	Bacteriologically negative				
			New	Re-treatment								
New tuberculosis cases in 2010*	23,155	18,277	8,242	794	6,358	2,883	4,878	4,902				
Total number of patients excluded from tuberculosis registration by the end of 2011	6,372 (27.5)	5,086 (27.8)	2,744 (33.3)	272 (34.3)	1,547 (24.3)	523 (18.1)	1,286 (26.4)	843 (17.2)				
No need for follow-up	239 (1.0)	111 (0.6)	10 (0.1)	0 (0.0)	43 (0.7)	58 (2.0)	128 (2.6)	431 (8.8)				
Died	4,935 (21.3)	3,964 (21.7)	2,293 (27.8)	234 (29.5)	1,160 (18.2)	277 (9.6)	971 (19.9)	41 (0.8)				
Tuberculosis death	1,484 (6.4)	1,266 (6.9)	957 (11.6)	77 (9.7)	188 (3.0)	44 (1.5)	218 (4.5)	1 (0.0)				
Other death	3,451 (14.9)	2,698 (14.8)	1,336 (16.2)	157 (19.8)	972 (15.3)	233 (8.1)	753 (15.4)	40 (0.8)				
Transfer out	934 (4.0)	793 (4.3)	358 (4.3)	24 (3.0)	263 (4.1)	148 (5.1)	141 (2.9)	263 (5.4)				
Re-treatment during registration	149 (0.6)	127 (0.7)	55 (0.7)	9 (1.1)	44 (0.7)	19 (0.7)	22 (0.5)	28 (0.6)				
Other reason	115 (0.5)	91 (0.5)	28 (0.3)	5 (0.6)	37 (0.6)	21 (0.7)	24 (0.5)	80 (1.6)				
New tuberculosis cases in 2011**	22,508	17,449	7,736	747	6,049	2,917	5,059	10,096				
Total number of patients excluded from tuberculosis registration by the end of 2012	6,385 (28.4)	5,045 (28.9)	2,710 (35.0)	279 (37.3)	1,532 (25.3)	524 (18.0)	1,340 (26.5)	1,240 (12.3)				
No need for follow-up	136 (0.6)	48 (0.3)	5 (0.1)	1 (0.1)	16 (0.3)	26 (0.9)	88 (1.7)	465 (4.6)				
Died	5,050 (22.4)	3,994 (22.9)	2,267 (29.3)	227 (30.4)	1,206 (19.9)	294 (10.1)	1,056 (20.9)	65 (0.6)				
Tuberculosis death	1,502 (6.7)	1,258 (7.2)	932 (12.0)	80 (10.7)	184 (3.0)	62 (2.1)	244 (4.8)	0 (0.0)				
Other death	3,548 (15.8)	2,736 (15.7)	1,335 (17.3)	147 (19.7)	1,022 (16.9)	232 (8.0)	812 (16.1)	65 (0.6)				
Transfer out	983 (4.4)	828 (4.7)	354 (4.6)	47 (6.3)	255 (4.2)	172 (5.9)	155 (3.1)	592 (5.9)				
Re-treatment during registration	138 (0.6)	118 (0.7)	65 (0.8)	4 (0.5)	34 (0.6)	15 (0.5)	20 (0.4)	51 (0.5)				
その他の理由 Other reason	78 (0.3)	57 (0.3)	19 (0.2)	0 (0.0)	21 (0.3)	17 (0.6)	21 (0.4)	67 (0.7)				

*: Based on the annual report database in 2011

** : Based on the annual report database in 2012

LTBI : Latent Tuberculosis Infection