

Tuberculosis Annual Report 2009  
Series 1. Summary of TB Notification Statistics in 2009

Tuberculosis Surveillance Center, RIT, JATA

**Abstract** Annual reports of tuberculosis (TB) statistics in Japan have been compiled mainly using the output of the database obtained through the nationwide computerized tuberculosis surveillance system which has been operated since 1987. This system has been revised several times, with the latest revision conducted in 2007 when much new information was added. Therefore, a plan was drawn up to provide TB epidemiological statistics in Japan on “Kekkaku” and a series of ten reports was already issued as “TB Annual Report 2008”. This is the first report of a new series for “TB Annual Report 2009”.

The report can be summarized as follows. The TB notification (incidence) rate fell below 20 per 100,000 in 2007 and continued to decline, reaching 19.0 in 2009. However, 24,170 TB patients were newly notified in 2009. For sputum smear positive pulmonary TB, the patient count was 9,675 with an incidence rate of 7.6 per 100,000 in 2009. Since June 2007, it has been legally compulsory to notify latent TB infections (LTBI) requiring treatment; the number in 2009 was 4,119 cases.

**Key words** : Tuberculosis, Incidence rate, Trend, Sex-age specific, Monthly report, Latent TB infection, Extra-pulmonary TB

Research Institute of Tuberculosis, JATA

Correspondence to : Tuberculosis Surveillance Center, Research Institute of Tuberculosis, JATA, 3-1-24, Matsuyama, Kiyose-shi, Tokyo 204-8533, Japan (E-mail: tbsur@jata.or.jp)

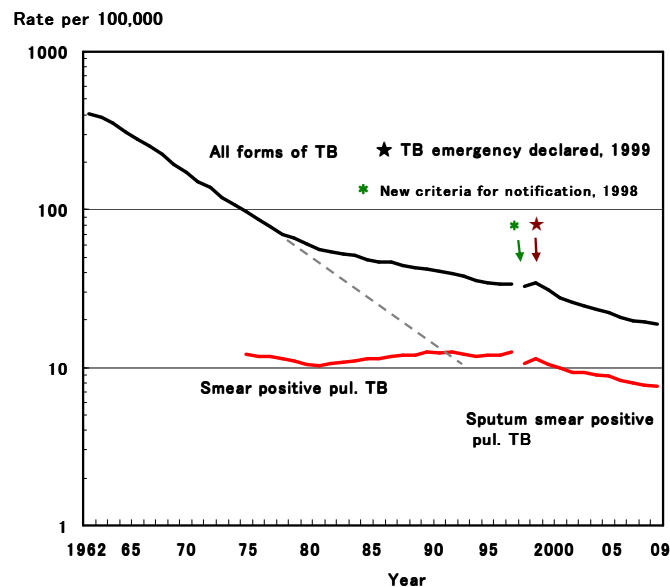


Fig.1 Trend of notification rate, 1962–2009

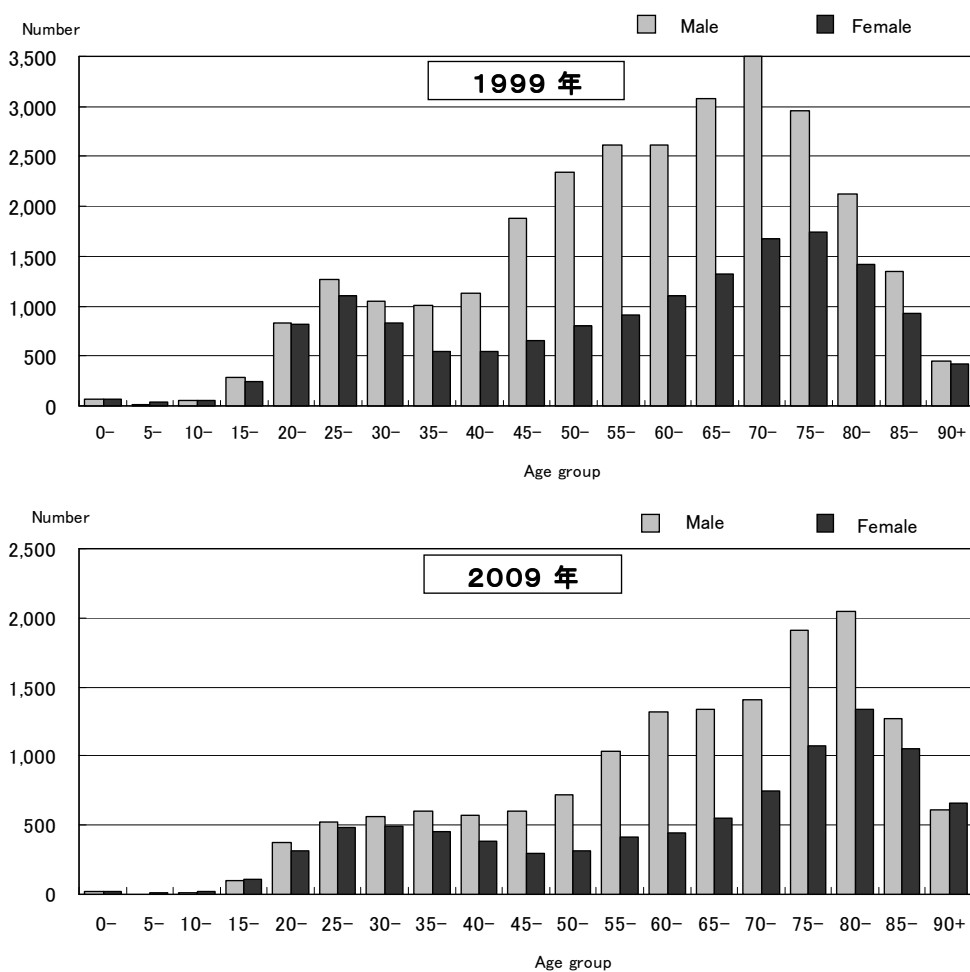


Fig.2 Age distribution of newly notified TB patients by sex, 1999, 2009

Table 1 Number and rate of newly notified TB patients, by age group, 2007–2009

Age group	Notified patients			Sputum smear pos. pulmonary patients			Notification rate*			Sputum smear pos. pulmonary rate*		
	2007	2008	2009	2007	2008	2009	2007	2008	2009	2007	2008	2009
Total	25,311	24,760	24,170	10,204	9,809	9,675	19.8	19.4	19.0	8.0	7.7	7.6
0-14	92	95	73	4	3	4	0.5	0.6	0.4	0.0	0.0	0.0
15-19	201	191	204	52	55	48	3.2	3.1	3.4	0.8	0.9	0.8
20-29	1,924	1,823	1,699	580	485	526	12.8	12.4	11.8	3.9	3.3	3.6
30-39	2,308	2,152	2,100	768	713	683	12.3	11.6	11.5	4.1	3.8	3.7
40-49	1,935	1,917	1,847	767	722	720	12.1	11.8	11.3	4.8	4.5	4.4
50-59	3,035	2,784	2,476	1,270	1,216	1,023	16.4	15.8	14.7	6.9	6.9	6.1
60-69	3,694	3,689	3,650	1,504	1,430	1,460	22.6	21.7	20.5	9.2	8.4	8.2
70-79	5,659	5,524	5,148	2,299	2,231	2,013	45.3	43.6	40.5	18.4	17.6	15.8
80-89	5,342	5,435	5,700	2,465	2,420	2,570	90.3	87.2	86.8	41.7	38.8	39.1
90+	1,121	1,150	1,273	495	534	628	91.7	89.8	95.7	40.5	41.7	47.2

\* Rate per 100,000 population

Table 2 Newly notified cases by registered month, 2009

Registered month	Active tuberculosis								LTBI* on treatment
	Active pulmonary TB								
	All active TB	All active pulmonary	Sputum smear(+)			Other bacillary (+)	Bacillary (-), unknown	Extra-pulmonary	
			All sputum smear(+)	New	Re-treatment				
Total	24,170	18,912	9,675	8,853	822	5,960	3,277	5,258	4,119
Jan.	1,797	1,446	761	687	74	454	231	351	277
Feb.	1,777	1,389	734	661	73	415	240	388	328
Mar.	2,056	1,592	818	744	74	513	261	464	396
Apr.	2,315	1,835	944	860	84	539	352	480	432
May	2,046	1,556	801	737	64	481	274	490	354
Jun.	2,138	1,640	822	748	74	500	318	498	402
Jul.	2,350	1,837	924	864	60	574	339	513	391
Aug.	2,009	1,596	860	789	71	491	245	413	352
Sep.	1,889	1,470	773	711	62	472	225	419	290
Oct.	2,013	1,586	795	732	63	516	275	427	324
Nov.	1,816	1,425	703	651	52	464	258	391	243
Dec.	1,964	1,540	740	669	71	541	259	424	330

\* LTBI: Latent TB Infection. These are not included in the number of active tuberculosis.

Table 3 Newly notified latent TB infection treatment cases, by sex and age group, 2008–2009

Age group	2008					2009				
	Total	Sex		Proportion (%)	Ratio of F/M	Total	Sex		Proportion (%)	Ratio of F/M
		Male	Female				Male	Female		
Total	4,832	2,215	2,617	100	1.2	4,119	1,790	2,329	100	1.3
0–4	555	279	276	11.5	1.0	390	159	231	9.5	1.5
5–9	240	104	136	5.0	1.3	207	93	114	5.0	1.2
10–14	209	98	111	4.3	1.1	156	78	78	3.8	1.0
15–19	255	121	134	5.3	1.1	208	97	111	5.0	1.1
20–24	391	157	234	8.1	1.5	316	125	191	7.7	1.5
25–29	474	207	267	9.8	1.3	431	170	261	10.5	1.5
30–34	510	215	295	10.6	1.4	410	181	229	10.0	1.3
35–39	519	239	280	10.7	1.2	485	211	274	11.8	1.3
40–44	452	198	254	9.4	1.3	440	200	240	10.7	1.2
45–49	441	198	243	9.1	1.2	446	182	264	10.8	1.5
50–54	264	135	129	5.5	1.0	203	76	127	4.9	1.7
55–59	232	112	120	4.8	1.1	201	90	111	4.9	1.2
60–64	105	50	55	2.2	1.1	102	59	43	2.5	0.7
65–69	67	38	29	1.4	0.8	42	22	20	1.0	0.9
70+	118	64	54	2.4	0.8	82	47	35	2.0	0.7

Table 4 Newly notified TB patients by affected organ, sex and age group, 1998-2009

Sex, Age- group, 2008	All forms	Pulmonary					Extra-pulmonary														
		Lung	Bron- chial	Pharyn- geal/ La- ryngeal	Miliary	Pleural	Empe- ma	Hilar node	Other lymph node	Menin- geal	Intes- tinal	Verte- bral	Other joint/ bone	Renal/ Urinar- y tract	Genital	Cutane- ous	Ocular	Auric- ular	Perito- neal	Peri- cardial	Others
Total	24,170	19,278	121	36	604	3,940	63	73	1,221	162	321	241	182	100	23	121	26	22	168	88	179
Male	15,003	12,393	43	19	211	2,770	39	38	391	82	132	98	73	46	15	45	11	9	78	67	93
Female	9,167	6,885	78	17	393	1,170	24	35	830	80	189	143	109	54	8	76	15	13	90	21	86
0-14	73	50			4	3		11	4	1			5	1							1
15-19	204	187	1	1	1	16		1	14	2	1	2		1		2					
20-29	1,699	1,470	9	1	6	200		9	101	6	13	5	2	1		4	1	3	13	1	7
30-39	2,100	1,755	12	3	26	277	1	10	140	16	23	11	11	4	3	8	5	1	16	4	12
40-49	1,847	1,555	10	4	25	232	3	7	111	14	18	11	4	5	1	8	5	1	7	3	10
50-59	2,476	2,049	10	4	38	305	9	5	114	15	47	11	12	18	2	9	8	3	14	9	22
60-69	3,650	2,880	23	10	68	509	4	13	233	24	81	50	26	22	6	19	2	2	29	10	31
70-79	5,148	3,839	37	8	164	947	20	10	294	43	87	84	51	27	9	29	2	4	52	34	48
80-89	5,700	4,470	16	4	216	1,157	25	6	198	35	48	60	61	19	2	35	3	5	29	24	43
90+	1,273	1,023	3	1	56	294	1	1	12	6	3	7	10	2		7		2	8	3	6
Year	Total																				
1998	41,033	33,981	-	-	505	5,125	251	136	1,469	154	335	385	328	227	78	100	12	25	-	-	692
1999	43,818	36,190	-	-	603	5,586	221	143	1,538	163	345	334	300	179	96	94	13	28	-	-	684
2000	39,384	32,338	-	-	597	5,108	202	123	1,432	158	356	319	272	181	72	123	16	38	-	-	656
2001	35,489	28,868	-	-	642	4,840	162	102	1,368	177	275	276	274	172	72	104	11	25	-	-	619
2002	32,828	26,472	-	-	626	4,666	152	84	1,269	188	323	299	222	148	66	100	19	29	-	-	544
2003	31,638	25,478	-	-	639	4,539	142	83	1,341	149	276	268	223	144	47	87	15	28	-	-	570
2004	29,736	23,829	-	-	617	4,491	125	70	1,293	160	299	275	220	112	53	95	13	30	-	-	564
2005	28,319	22,655	-	-	585	4,338	115	88	1,151	180	296	233	201	130	37	98	11	33	-	-	536
2006	26,384	20,856	-	-	616	4,192	97	79	1,191	127	263	248	231	112	40	109	9	24	-	-	554
2007	25,311	20,264	108	31	602	4,134	75	57	1,186	153	328	232	190	108	34	92	19	18	92	61	281
2008	24,760	19,780	117	43	570	4,001	78	68	1,194	171	292	273	170	121	34	92	13	29	144	80	181
2009	24,170	19,278	121	36	604	3,940	63	73	1,221	162	321	241	182	100	23	121	26	22	168	88	179

Note: Cases having multiple organs are counted independently.