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Abstract The number of newly notified childhood tuberculosis (TB) patients aged 0-14 years fell dramatically from the 1970s, and newly notified childhood TB cases in 2008 was 95, corresponding to 0.55 per 100,000. Among 95 childhood TB patients, 41 (43.2%) were aged 0-4 years, 5 (5.3%) were foreigners and 36 (37.9%) were extra-pulmonary TB. Meningeal TB among those aged 0-14 years has not been notified since 2006.

The trends of incidence rates of childhood TB differed by age group. Till the early 1970s, the 5-9 age group showed the highest rate among childhood TB, but then showed the lowest rate from the late 1980s. On the other hand, the 0-4 age group has consistently shown the highest rate since the late 1970s.

Concerning the mode of detection in 2008, 43 patients (45.3%) were detected by family contact examination and 8 (8.4%) were detected by other contact examination. Thirty-five patients (36.8%) were detected at medical institutions with some symptoms, and only 3 (3.2%) patients were detected by mass-screening at school.

There are 47 prefectures in Japan, of which 14 had no childhood TB case in 2008. Most childhood TB cases were in Tokyo with 12 patients, followed by Osaka and Kanagawa with 8 patients each.

Key words: Tuberculosis, Childhood TB, Age, Trend, Prefectures, Mode of detection

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表1 新登録小児結核患者数(罹患率)および特定肺外結核、1965-2008年

Table 1 Number (rates) of childhood TB patients and specific extra-pulmonary TB, 1965-2008

年 Year	0-14歳新登録患者 Newly notified TB aged 0-14 yrs		結核性髄膜炎数 No. of meningeal TB		粟粒結核数 No. of miliary TB	
	数 Number	率 Rate	0-14歳 0-14 yrs	0-4歳(率) 0-4 yrs (Rate)	0-14歳 0-14 yrs	0-4歳(率) 0-4 yrs (Rate)
1965	44,180	175.6	—	—	—	—
1970	18,197	73.4	—	—	—	—
1975	4,905	18.0	28	22 (0.221)	—	—
1980	1,893	6.9	22	14 (0.164)	—	—
1985	1,088	4.2	—	—	—	—
1990	518	2.3	9	4 (0.061)	10	8 (0.122)
1995	340	1.7	8	8 (0.136)	8	8 (0.136)
2000	220	1.2	7	4 (0.069)	3	3 (0.052)
2005	117	0.67	3	1 (0.018)	3	1 (0.018)
2006	85	0.49	0	0	1	1 (0.018)
2007	92	0.53	0	0	0	0
2008	95	0.55	0	0	1	1 (0.019)

肺外結核: 重複あり
率: 当該年齢人口10万対率
—: 情報なし

Extra-pulmonary TB: Cases are counted independently.
Rate: per 100,000
—: Not available

人口10万対率
Rate per 100,000

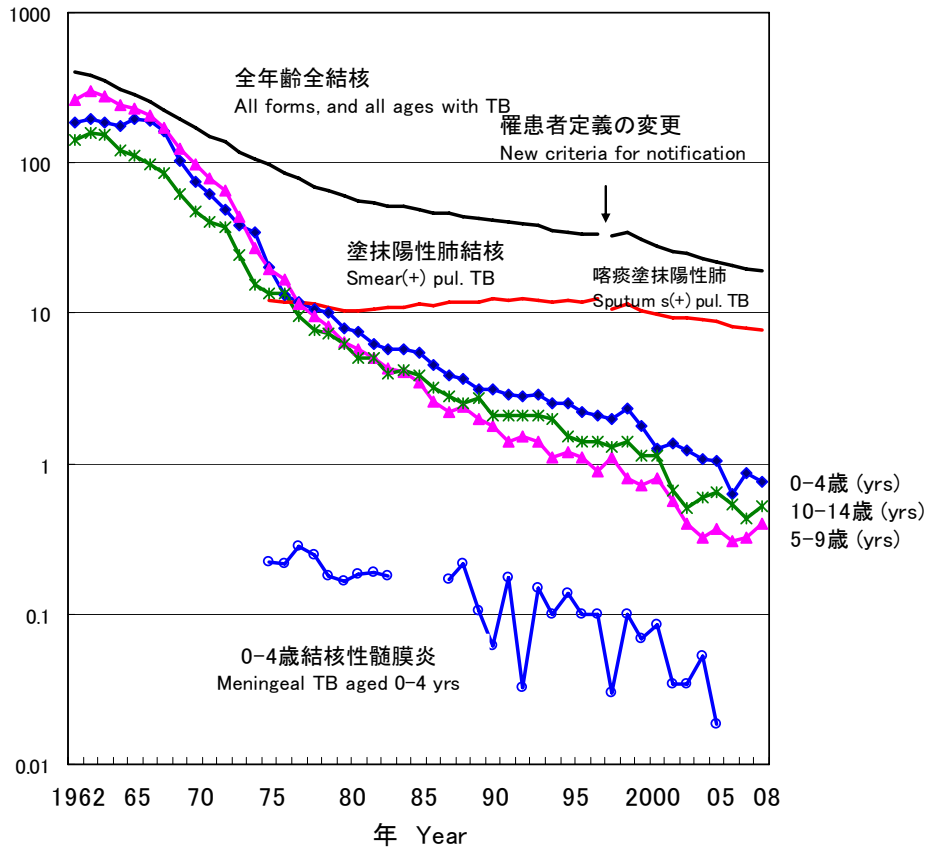


図1 小児結核罹患率の推移、1962-2008年
Fig. 1 Trend of childhood TB notification rates, 1962-2008

表2 年齢各歳別 新登録小児結核患者数の推移、1998-2008年

Table 2 Trend of newly notified childhood TB patients by age and calendar year, 1998-2008

年 Year	年齢(歳) Age (yrs)															計 Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1998	31	39	15	18	16	12	18	14	13	10	7	7	29	18	27	274
1999	43	35	24	23	9	10	15	8	7	10	8	9	27	27	25	280
2000	29	27	19	14	14	8	10	13	5	7	14	11	21	12	16	220
2001	27	18	14	9	7	4	14	11	11	8	8	4	23	18	19	195
2002	30	21	14	12	3	9	8	5	6	6	2	3	14	15	7	155
2003	23	15	17	5	12	9	5	4	1	5	4	3	4	10	10	127
2004	20	18	9	5	10	5	2	3	5	4	3	4	12	6	11	117
2005	23	11	5	13	4	4	3	7	5	3	6	5	7	13	8	117
2006	9	6	8	6	6	6	3	3	2	4	3	4	3	13	9	85
2007	21	5	7	12	2	6	5	2	4	2	2	4	4	7	9	92
2008	11	14	11	4	1	2	6	2	5	8	2	5	7	8	9	95

2003年、学校健診方法の変更

2005年、BCG接種年齢の上限が4歳までから直接接種で6か月までに変更

School mass-screening was revised in 2003.

Upper-limitation age of BCG vaccination was changed from 4 years to 6 months, with introduction of direct vaccination policy in 2005.

表3 年齢各歳別発見方法別小児結核患者数、2008年
Table 3 Number of newly notified childhood TB patients by age and mode of detection, 2008

	年齢(歳) Age (yrs)														計 Total	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14
個別健診 Individual medical checkup	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2
学校健診 School mass-screening	-	-	-	-	-	-	-	-	1	1	-	-	-	1	-	3
家族接触者健診 Family contact examination	5	3	4	3	1	-	3	-	3	4	1	5	1	6	4	43
他接触者健診 Other contact examination	-	1	1	-	-	1	1	1	1	1	-	-	-	-	1	8
医療機関 At clinics/hospitals (symptoms)	6	9	5	1	-	1	1	-	-	1	1	-	5	1	4	35
その他 Others	-	1	1	-	-	-	1	-	-	1	-	-	-	-	-	4
計 Total	11	14	11	4	1	2	6	2	5	8	2	5	7	8	9	95

表4 小児結核患者数別都道府県数の変化、1980-2008年
Table 4 Number of prefectures by number of childhood TB patients, 1980-2008

年 Year	小児結核患者数 Number of childhood TB patients							20人以上 20 cases ≤	計 Total
	0	1	2~4	5~9	10~14	15~19	20人以上 20 cases ≤		
1980	0	0	1	6	7	4	29	47	
1985	0	0	5	11	10	2	19	47	
1990	0	3	13	11	8	2	10	47	
1995	3	6	14	13	4	2	5	47	
2000	9	8	13	10	3	1	3	47	
2005	17	8	13	7	2	0	0	47	
2006	19	13	8	6	1	0	0	47	
2007	17	12	11	5	2	0	0	47	
2008	14	12	16	4	1	0	0	47	

表5 小児結核患者および潜在性結核感染症の治療者における年齢別BCG接種率、2008年
Table 5 Proportion of BCG vaccinated cases among newly notified childhood TB patients and LTBI cases, 2008

	年齢 Age in years										計 Total		
	月齢 Age in months					0	1	2	3	4			
	0-2	3-5	6-8	9-11	計 Total								
結核患者数 TB cases	2	4	2	3	11	14	11	4	1	41	23	31	95
BCG接種者 BCG vaccinated	0	1	2	3	6	10	8	3	1	28	16	25	69
〃 未接種 〃 not vaccinated	2	3	0	0	5	3	2	1	0	11	2	1	14
〃 不明 〃 unknown	0	0	0	0	0	1	1	0	0	2	5	5	12
BCG接種率(%) BCG vaccinated (%)	0.0	25.0	100.0	100.0	54.5	76.9	80.0	75.0	100.0	71.8	88.9	96.2	83.1
潜在性結核感染症 LTBI	94	98	45	30	267	91	69	70	58	555	240	209	1004
BCG接種者 BCG vaccinated	0	53	41	27	121	86	63	62	55	387	215	151	753
〃 未接種 〃 not vaccinated	89	42	3	2	136	1	4	4	0	145	12	14	171
〃 不明 〃 unknown	5	3	1	1	10	4	2	4	3	23	13	44	80
BCG接種率(%) BCG vaccinated (%)	0.0	55.8	93.2	93.1	47.1	98.9	94.0	93.9	100.0	72.7	94.7	91.5	81.5

(%): 接種歴不明を除いた中でのBCG接種率

(%): Proportion of BCG vaccinated cases among all TB/LTBI cases excluding BCG unknown