

表1 2009年新登録肺結核患者の総合患者分類別コホート法による治療成績

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

| | 総数 Total | 肺結核 Pulmonary tuberculosis | | | | | | | | |
|--|---------------|---------------------------------|-------|---------------------|-----|--|-------|--------------|-------|------|
| | | 喀痰塗抹陽性 Sputum smear positive | | | | 他結核菌陽性 Other bacteriologically- positive | | | | |
| | | 初回治療 New | | 再治療 Re-treatment | | 菌陰性 Bacteriologically- negative | | | | |
| | | | | | | | | | | |
| 2009年新登録肺結核患者数 New pulmonary tuberculosis cases in 2009 | 18,633 (100%) | 8,772 (100%) | | 817 (100%) | | 5,977 (100%) | | 3,067 (100%) | | |
| 治療成績 Treatment outcomes (*) | | | | | | | | | | |
| 1. 治療成功 Treatment success | 10,205 | 54.8 | 4,536 | 51.7 | 373 | 45.7 | 3,465 | 58.0 | 1,831 | 59.7 |
| 治癒 Cure | 2,919 | 15.7 | 1,814 | 20.7 | 156 | 19.1 | 686 | 11.5 | 263 | 8.6 |
| 治療完了 Treatment completed | 7,286 | 39.1 | 2,722 | 31.0 | 217 | 26.6 | 2,779 | 46.5 | 1,568 | 51.1 |
| 治療完了1 Treatment completed 1 | 5,967 | 32.0 | 2,382 | 27.2 | 190 | 23.3 | 1,830 | 30.6 | 1,565 | 51.0 |
| 治療完了2 Treatment completed 2 | 1,319 | 7.1 | 340 | 3.9 | 27 | 3.3 | 949 | 15.9 | 3 | 0.1 |
| 2. 死亡 Died | 2,641 | 14.2 | 1,693 | 19.3 | 157 | 19.2 | 616 | 10.3 | 175 | 5.7 |
| 3. 治療失敗 Treatment Failure | 114 | 0.6 | 79 | 0.9 | 10 | 1.2 | 22 | 0.4 | 3 | 0.1 |
| 4. 脱落・中断 Default | 1,355 | 7.3 | 325 | 3.7 | 29 | 3.5 | 569 | 9.5 | 432 | 14.1 |
| 脱落1 Default 1 | 208 | 1.1 | 71 | 0.8 | 10 | 1.2 | 71 | 1.2 | 56 | 1.8 |
| 脱落2 Default 2 | 1,147 | 6.2 | 254 | 2.9 | 19 | 2.3 | 498 | 8.3 | 376 | 12.3 |
| 5. 転出 Transfer out | 517 | 2.8 | 288 | 3.3 | 25 | 3.1 | 126 | 2.1 | 78 | 2.5 |
| 6. 12か月超治療 Still on treatment | 1,745 | 9.4 | 944 | 10.8 | 112 | 13.7 | 498 | 8.3 | 191 | 6.2 |
| 12か月超治療1 Still on treatment 1 | 293 | 1.6 | 175 | 2.0 | 19 | 2.3 | 84 | 1.4 | 15 | 0.5 |
| 12か月超治療2 Still on treatment 2 | 1,452 | 7.8 | 769 | 8.8 | 93 | 11.4 | 414 | 6.9 | 176 | 5.7 |
| 7. 判定不能 Unclassified | 2,056 | 11.0 | 907 | 10.3 | 111 | 13.6 | 681 | 11.4 | 357 | 11.6 |
| 判定不能1 Unclassified 1 | 431 | 2.3 | 187 | 2.1 | 9 | 1.1 | 174 | 2.9 | 61 | 2.0 |
| 判定不能2 Unclassified 2 | 205 | 1.1 | 126 | 1.4 | 7 | 0.9 | 59 | 1.0 | 13 | 0.4 |
| 判定不能3 Unclassified 3 | 495 | 2.7 | 221 | 2.5 | 59 | 7.2 | 134 | 2.2 | 81 | 2.6 |
| 判定不能4 Unclassified 4 | 237 | 1.3 | 116 | 1.3 | 10 | 1.2 | 85 | 1.4 | 26 | 0.8 |
| 判定不能5 Unclassified 5 | 688 | 3.7 | 257 | 2.9 | 26 | 3.2 | 229 | 3.8 | 176 | 5.7 |

*治療成績: 表2参照。Treatment outcomes: See Table 2.

表2 新登録喀痰塗抹陽性初回治療肺結核患者の治療成績、2006～2009年コホート

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

| 治療成績 | | 定義 Definition | 2006 | 2007 | 2008 | 2009 |
|--------------------|----------------------------------|--|-------|-------|-------|-------|
| Treatment outcomes | | | | | | |
| | | n= | 9,784 | 9,421 | 8,999 | 8,772 |
| 1 | 治癒 Cure | 標準治療期間を満たして12か月以内に治療を完遂し、培養検査での陰性確認を2回以上できた(1回は治療終了前3月以内)場合。 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 | 治療完了1 Treatment completed 1 | 標準治療期間を満たして12か月以内に治療を完遂したが、培養検査の陰性確認は1回のみの場合。 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 | 治療完了2 Treatment completed 2 | 標準治療期間を満たして12か月以内に治療を完遂したが、培養検査での陰性確認がなかった場合。 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 | 死亡 Died | 治療中に死亡した場合(理由は問わない)。 A patient who died for any reason during the course of treatment. | 18.9 | 18.4 | 19.1 | 19.3 |
| 5 | 治療失敗 Treatment failure | 治療開始後5か月目以降1年以内に培養検査が陽性であった場合。 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 | 脱落1 Default 1 | 連続60日以上あるいは2か月以上治療を中断した場合。 A patient whose treatment was interrupted for 60 days (or 2 consecutive months) or more. | 0.8 | 0.7 | 0.6 | 0.8 |
| 7 | 脱落2 Default 2 | 治療は完遂とされているが、標準治療期間に満たなかった場合。 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 | 転出 Transfer out | 治療中に当該保健所管轄地域外へ転出した場合。 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 | 12か月超治療1 Still on treatment 1 | 治療開始から12か月後も治療中で、治療途中にイソニアジド(INH)あるいはリファンピシン(RFP)の使用を中止して以後未使用の場合。 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 | 12か月超治療2 Still on treatment 2 | 治療開始から12か月後も治療中で、上記「12ヶ月超治療1」以外の場合。 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 | 判定不能1 Unclassified 1 | 治療しなかった場合(主な理由は治療開始前の死亡あるいは死亡後の結核登録)。 A patient who did not start tuberculosis treatment (due mostly to early death). | 1.5 | 1.9 | 2.2 | 2.1 |
| 12 | 判定不能2 Unclassified 2 | 治療開始時の化療内容が未入力の場合。 A patient whose initial treatment regimen was unknown. | 4.2 | 4.3 | 3.9 | 1.4 |
| 13 | 判定不能3 Unclassified 3 | 治療開始時の化療内容が標準治療以外の場合。 A patient whose treatment regimen was other than the standard. | 2.1 | 2.5 | 2.7 | 2.5 |
| 14 | 判定不能4 Unclassified 4 | 12か月以内に治療を完遂したが、治療途中にINHあるいはRFPの使用を中止して以後未使用の場合。 A patient who stopped INH and/or RFP but completed treatment within 12 months. | 1.1 | 1.1 | 1.1 | 1.3 |
| 15 | 判定不能5 Unclassified 5 | 上記いずれにも該当しない場合(主な理由は情報不十分)。 A patient whose information was insufficient for classifying treatment outcome. | 4.3 | 5.1 | 3.8 | 2.9 |

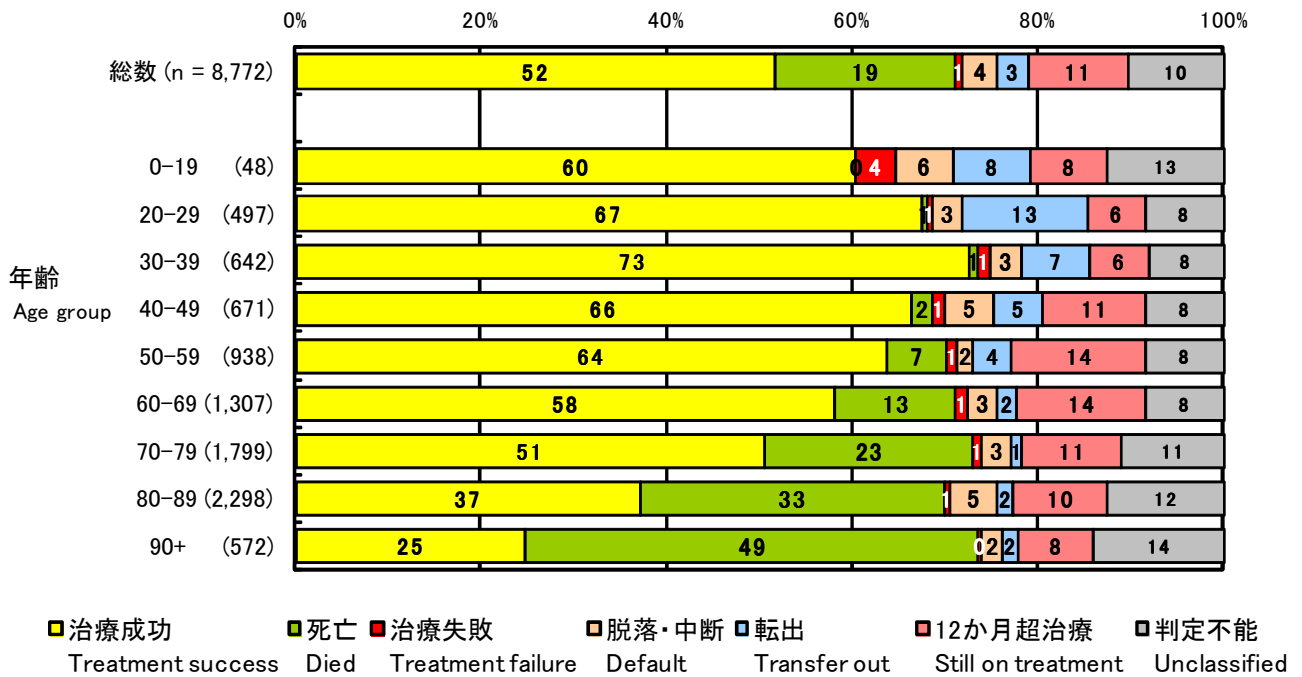


図1 2009年新登録喀痰塗抹陽性肺結核患者の年齢階層別治療成績 (%)

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

表3 前年(2007年、2008年、2009年)新登録結核患者の総合患者分類別年末時(各2008年末時、2009年末時、2010年末時)登録除外状況および登録除外理由
 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

| | 新登録活動性結核 Newly notified tuberculosis patients | | | | | | | (別掲) 潜在性結核感染症 (Not included in the total) LTBI patients |
|--|---|---|------------------------------|-------------------|------------------------------------|-----------------------------------|----------------------|---|
| | 総数 Total | 肺結核 Pulmonary tuberculosis | | | | | | |
| | | 肺結核計 (Pulmonary tuberculosis) Sub-total | 喀痰塗抹陽性 Sputum smear positive | | 他結核菌陽性 bacteriologically -positive | 菌陰性結核 bacteriologically -negative | 肺外結核 Extra-pulmonary | |
| | | 初回治療 New | 再治療 Re-treatment | | | | | |
| 2007年新登録結核患者数* 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%) |
| 2008年末時までの除外者計 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) |
| 観察不要 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) |
| 死亡 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) |
| 結核死 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) |
| 結核外死 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) |
| 転出 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) |
| 登録中の再登録 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) |
| その他の理由 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) |
| 2008年新登録結核患者数** 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%) |
| 2009年末時までの除外者計 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) |
| 観察不要 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) |
| 死亡 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) |
| 結核死 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) |
| 結核外死 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) |
| 転出 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) |
| 登録中の再登録 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) |
| その他の理由 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) |
| 2009年新登録結核患者数*** 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%) |
| 2010年末時までの除外者計 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) |
| 観察不要 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) |
| 死亡 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) |
| 結核死 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) |
| 結核外死 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) |
| 転出 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) |
| 登録中の再登録 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) |
| その他の理由 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) |

*: 2008年年報データによる。Based on the annual report database in 2008. **: 2009年年報データによる。Based on the annual report database in 2009.

***: 2010年年報データによる。Based on the annual report database in 2010.

TB: tuberculosis. LTBI: Latent Tuberculosis Infection.

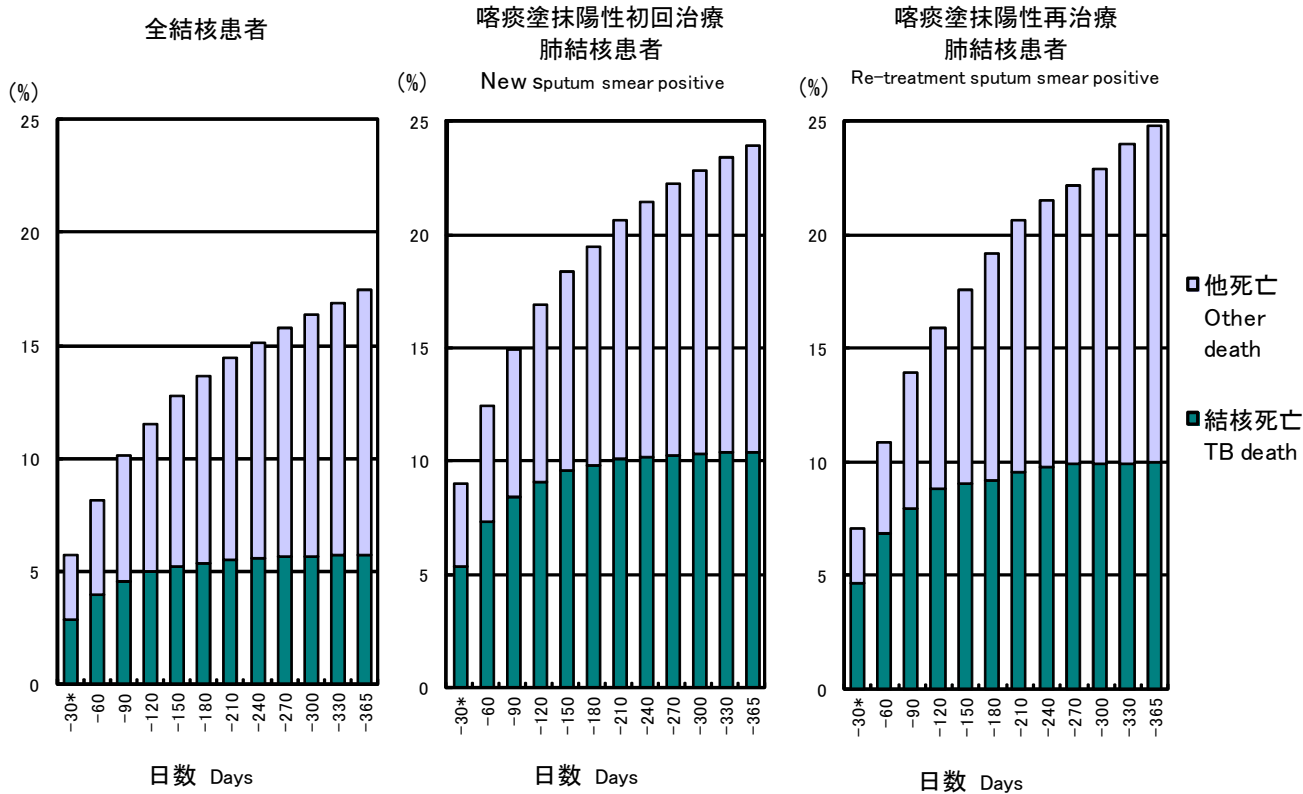


図2 2009年新登録結核患者中治療開始後1年以内死亡者の時期別累積死亡割合

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

-30*: 死亡後登録・治療前死亡を含む。 -30*: Includes cases who died before the commencement of treatment.
TB: tuberculosis.