



## Monthly Report of Tuberculosis Surveillance, Japan - July, 2023

The reporting and recording of tuberculosis (TB) and Latent TB Infection (LTBI) are managed at public health centers (PHCs) by the nationwide computerized TB surveillance system in Japan. A monthly report is compiled from the database automatically and regularly on 4<sup>th</sup> Friday of the next month, and an annual report is also produced much like the monthly report, but with sufficient time for data correction.

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Figure 1. Number of newly notified TB cases by month, Japan, 2020-2023

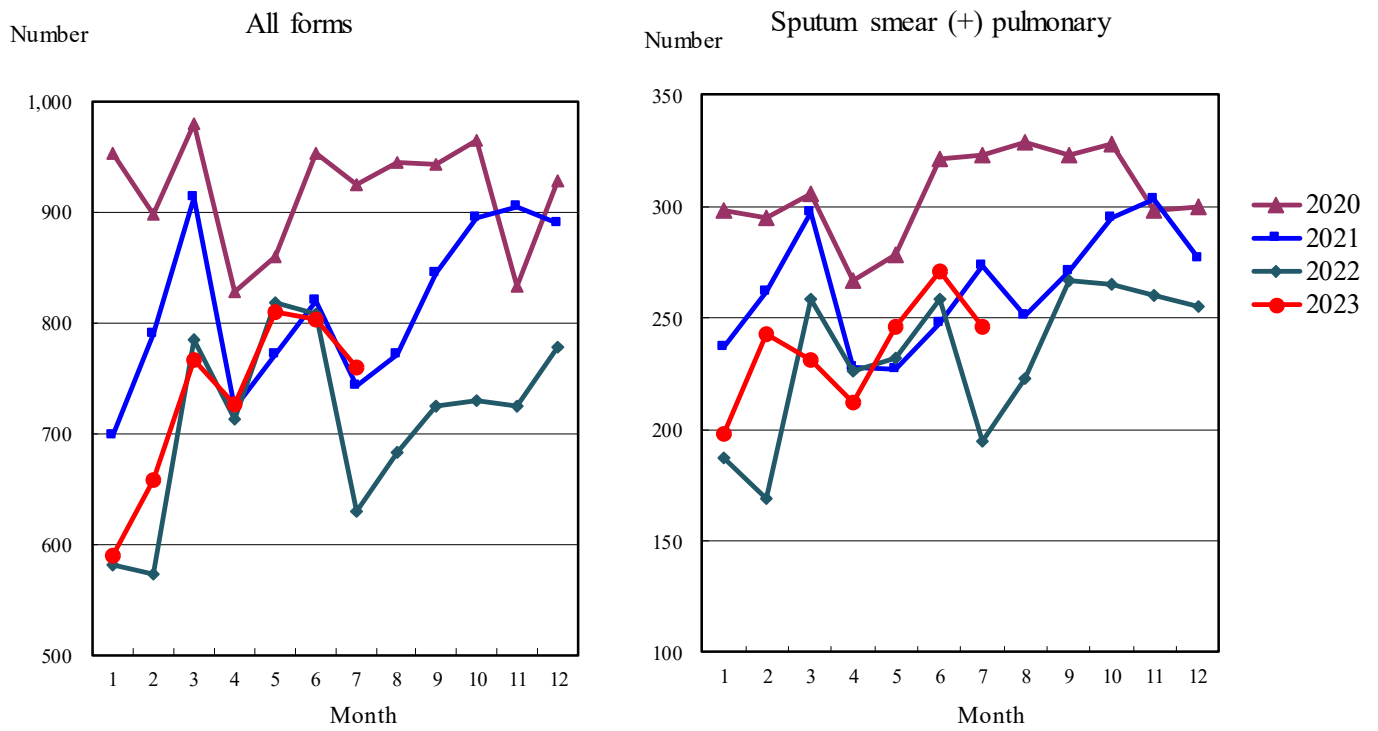


Figure 2. Newly notified TB patients by sex and age, Japan, summation (Jan.-Jul.) 2023

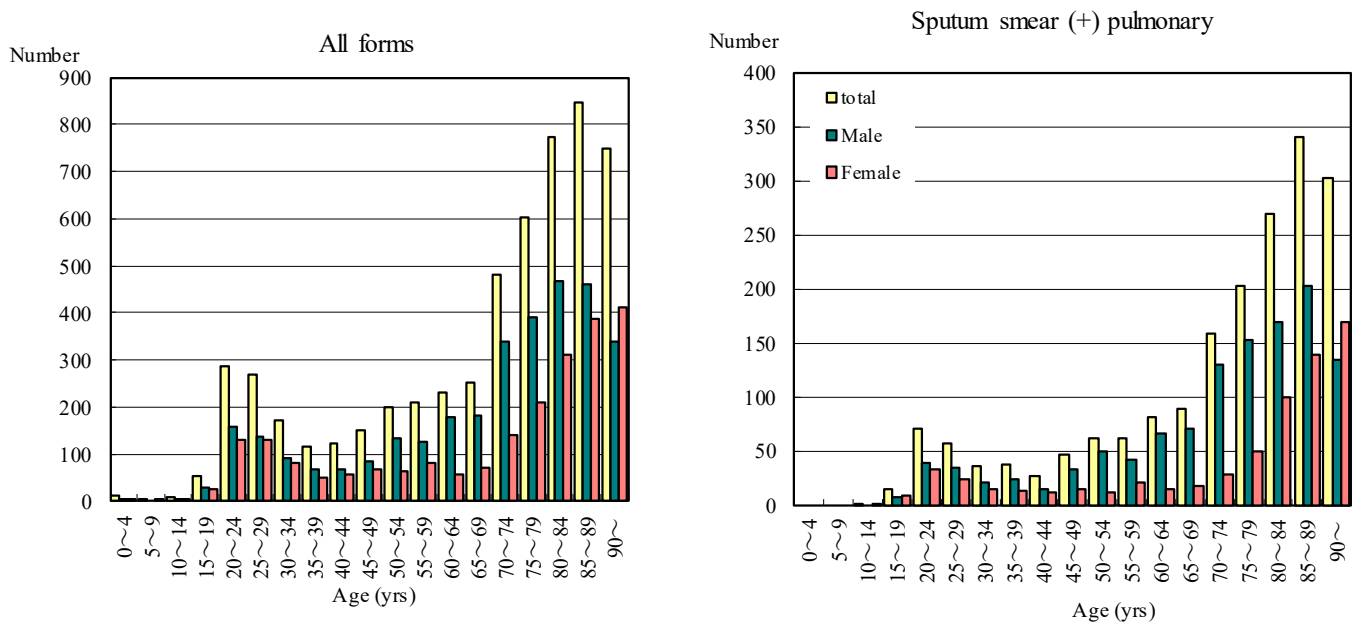


Figure 3. Notification rate of TB cases by sex and age, Japan, summation (Jan.-Jul.) 2023

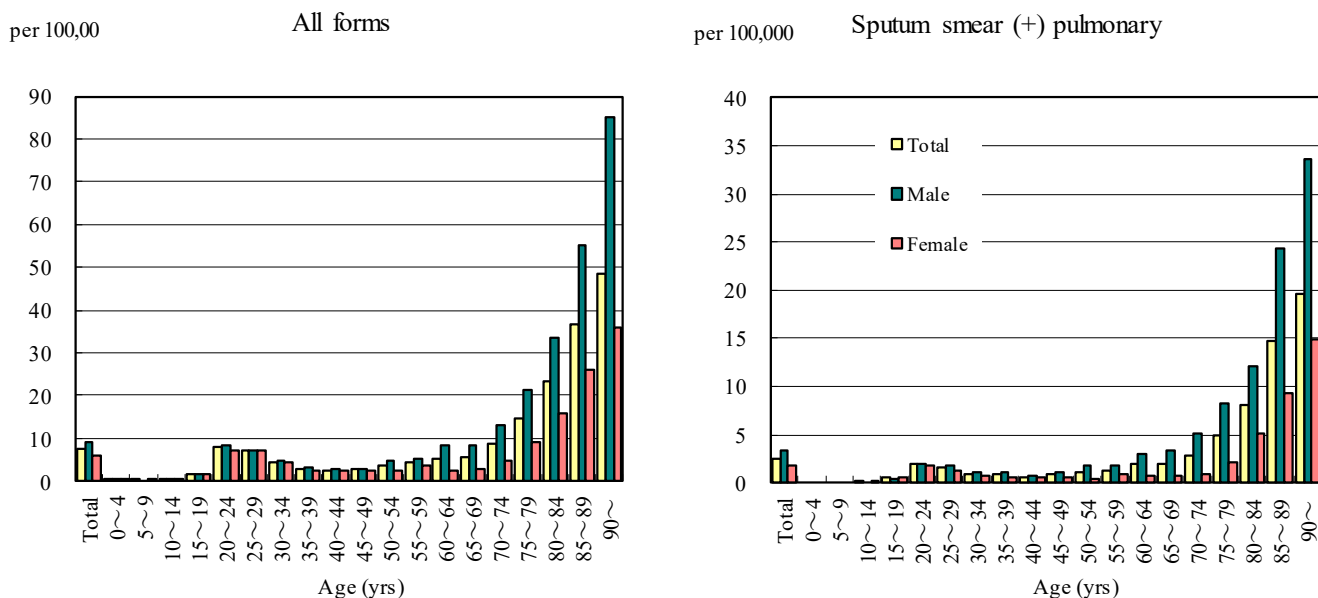


Figure 4. Notification rates of TB by prefecture, Japan, summation (Jan.-Jul.) 2023

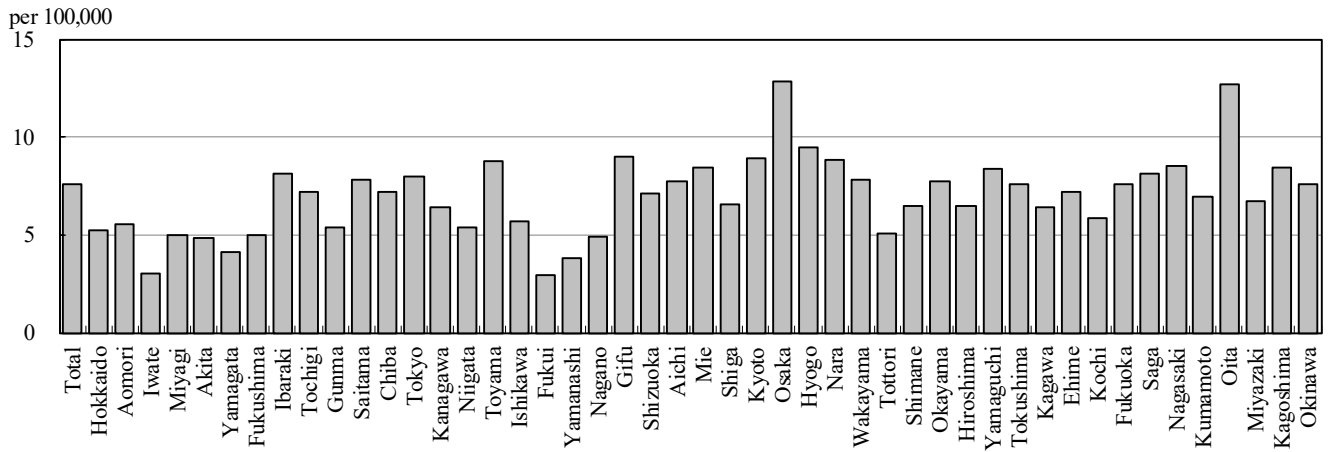


Figure 5. Notification rates of TB major city, Japan, summation (Jan.-Jul.) 2023

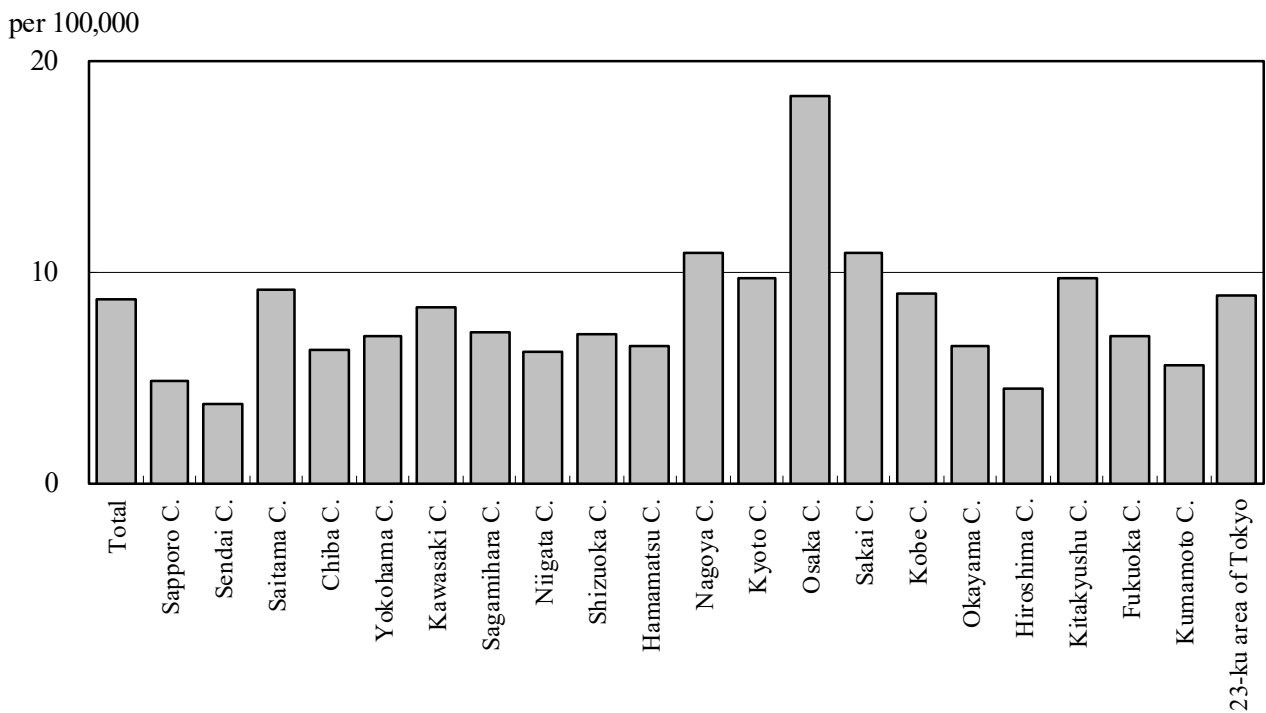


Figure 6. Number of LTBI, Japan, 2020-2023

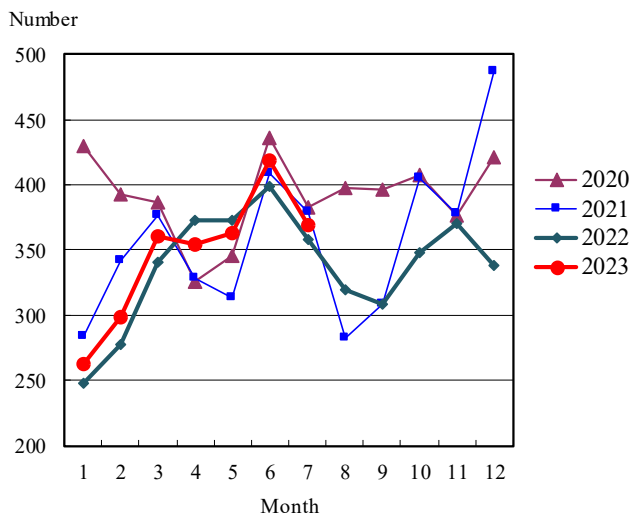


Figure 7. Number of LTBI by sex and age group, Japan, summation (Jan.-Jul.) 2023

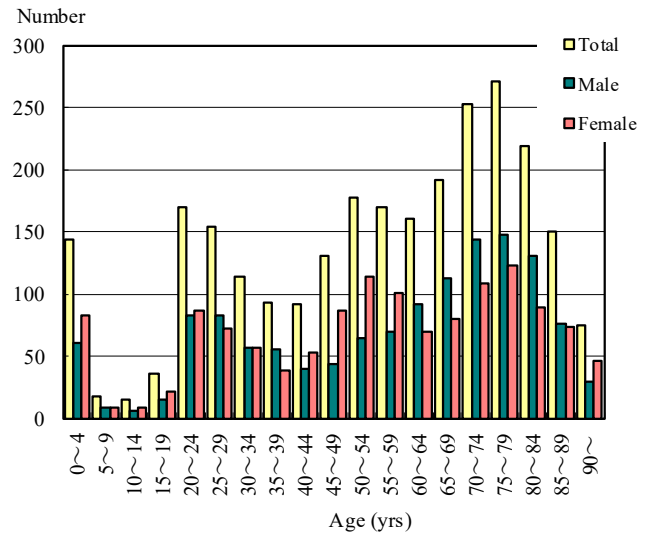


Table 1. Newly notified TB cases and rates by sex and age, Japan, 2023

|       | Jul.  |      |        | Summation (Jan.-Jul.) |       |        | Notification rate<br>(per 100,000) |      |        |
|-------|-------|------|--------|-----------------------|-------|--------|------------------------------------|------|--------|
|       | Total | Male | Female | Total                 | Male  | Female | Total                              | Male | Female |
| Total | 760   | 449  | 311    | 5,530                 | 3,252 | 2,278  | 7.6                                | 9.2  | 6.1    |
| 0~4   | 2     | 1    | 1      | 11                    | 6     | 5      | 0.4                                | 0.5  | 0.4    |
| 5~9   | 0     | 0    | 0      | 2                     | 0     | 2      | 0.1                                | 0.0  | 0.1    |
| 10~14 | 0     | 0    | 0      | 7                     | 1     | 6      | 0.2                                | 0.1  | 0.4    |
| 15~19 | 6     | 1    | 5      | 52                    | 28    | 24     | 1.6                                | 1.7  | 1.5    |
| 20~24 | 61    | 36   | 25     | 287                   | 156   | 131    | 7.9                                | 8.3  | 7.4    |
| 25~29 | 34    | 15   | 19     | 268                   | 138   | 130    | 7.2                                | 7.2  | 7.1    |
| 30~34 | 26    | 13   | 13     | 170                   | 90    | 80     | 4.5                                | 4.7  | 4.4    |
| 35~39 | 16    | 9    | 7      | 116                   | 67    | 49     | 2.8                                | 3.1  | 2.4    |
| 40~44 | 14    | 6    | 8      | 122                   | 66    | 56     | 2.6                                | 2.8  | 2.5    |
| 45~49 | 21    | 14   | 7      | 151                   | 85    | 66     | 2.7                                | 3.0  | 2.4    |
| 50~54 | 28    | 17   | 11     | 200                   | 135   | 65     | 3.6                                | 4.9  | 2.4    |
| 55~59 | 34    | 20   | 14     | 209                   | 127   | 82     | 4.4                                | 5.4  | 3.5    |
| 60~64 | 32    | 23   | 9      | 232                   | 177   | 55     | 5.3                                | 8.2  | 2.5    |
| 65~69 | 29    | 23   | 6      | 250                   | 181   | 69     | 5.7                                | 8.5  | 3.1    |
| 70~74 | 67    | 47   | 20     | 481                   | 340   | 141    | 8.8                                | 13.2 | 4.9    |
| 75~79 | 66    | 47   | 19     | 603                   | 392   | 211    | 14.7                               | 21.3 | 9.3    |
| 80~84 | 105   | 68   | 37     | 775                   | 466   | 309    | 23.1                               | 33.4 | 15.8   |
| 85~89 | 116   | 61   | 55     | 846                   | 459   | 387    | 36.7                               | 55.0 | 26.3   |
| 90~   | 103   | 48   | 55     | 748                   | 338   | 410    | 48.6                               | 85.0 | 35.9   |

Temporary registrants = 39, Total of registrants and temporary registrants = 799

Rate: summation / (population\*7/12)\*100,000

Population: as of 1st Oct. 2022

Table 2. Newly notified sputum smear positive pulmonary TB cases and rates by sex and age, Japan, 2023

|       | Jul.  |      |        | Summation (Jan.-Jul.) |       |        | Notification rate<br>(per 100,000) |      |        |
|-------|-------|------|--------|-----------------------|-------|--------|------------------------------------|------|--------|
|       | Total | Male | Female | Total                 | Male  | Female | Total                              | Male | Female |
| Total | 246   | 150  | 96     | 1,853                 | 1,188 | 665    | 2.5                                | 3.4  | 1.8    |
| 0~4   | 0     | 0    | 0      | 0                     | 0     | 0      | 0.0                                | 0.0  | 0.0    |
| 5~9   | 0     | 0    | 0      | 0                     | 0     | 0      | 0.0                                | 0.0  | 0.0    |
| 10~14 | 0     | 0    | 0      | 1                     | 0     | 1      | 0.0                                | 0.0  | 0.1    |
| 15~19 | 0     | 0    | 0      | 15                    | 7     | 8      | 0.5                                | 0.4  | 0.5    |
| 20~24 | 11    | 5    | 6      | 70                    | 38    | 32     | 1.9                                | 2.0  | 1.8    |
| 25~29 | 7     | 3    | 4      | 57                    | 34    | 23     | 1.5                                | 1.8  | 1.3    |
| 30~34 | 6     | 3    | 3      | 35                    | 21    | 14     | 0.9                                | 1.1  | 0.8    |
| 35~39 | 7     | 3    | 4      | 37                    | 24    | 13     | 0.9                                | 1.1  | 0.6    |
| 40~44 | 3     | 1    | 2      | 26                    | 15    | 11     | 0.6                                | 0.6  | 0.5    |
| 45~49 | 8     | 5    | 3      | 46                    | 32    | 14     | 0.8                                | 1.1  | 0.5    |
| 50~54 | 8     | 6    | 2      | 62                    | 50    | 12     | 1.1                                | 1.8  | 0.4    |
| 55~59 | 9     | 4    | 5      | 62                    | 41    | 21     | 1.3                                | 1.7  | 0.9    |
| 60~64 | 10    | 9    | 1      | 81                    | 66    | 15     | 1.9                                | 3.1  | 0.7    |
| 65~69 | 15    | 12   | 3      | 88                    | 71    | 17     | 2.0                                | 3.3  | 0.8    |
| 70~74 | 22    | 19   | 3      | 158                   | 130   | 28     | 2.9                                | 5.1  | 1.0    |
| 75~79 | 25    | 22   | 3      | 202                   | 153   | 49     | 4.9                                | 8.3  | 2.2    |
| 80~84 | 39    | 24   | 15     | 269                   | 169   | 100    | 8.0                                | 12.1 | 5.1    |
| 85~89 | 41    | 20   | 21     | 341                   | 203   | 138    | 14.8                               | 24.3 | 9.4    |
| 90~   | 35    | 14   | 21     | 303                   | 134   | 169    | 19.7                               | 33.7 | 14.8   |

Rate: summation / (population\*7/12)\*100,000

Population: as of 1st Oct. 2022

Table 3. Newly notified TB cases and rates by prefecture, Japan, 2023

|           | Jul.                 |                     | Summation (Jan.-Jul.) |                     | Notification rate<br>(per 100,000) |                     |
|-----------|----------------------|---------------------|-----------------------|---------------------|------------------------------------|---------------------|
|           | Newly notified<br>TB | Sputum smear<br>(+) | Newly notified<br>TB  | Sputum smear<br>(+) | Newly notified<br>TB               | Sputum smear<br>(+) |
| Total     | 760                  | 246                 | 5,530                 | 1,853               | 7.6                                | 2.5                 |
| Hokkaido  | 21                   | 8                   | 157                   | 60                  | 5.2                                | 2.0                 |
| Aomori    | 5                    | 0                   | 39                    | 9                   | 5.6                                | 1.3                 |
| Iwate     | 2                    | 1                   | 21                    | 8                   | 3.0                                | 1.2                 |
| Miyagi    | 11                   | 2                   | 66                    | 22                  | 5.0                                | 1.7                 |
| Akita     | 5                    | 3                   | 26                    | 8                   | 4.8                                | 1.5                 |
| Yamagata  | 3                    | 1                   | 25                    | 7                   | 4.1                                | 1.2                 |
| Fukushima | 9                    | 2                   | 52                    | 14                  | 5.0                                | 1.3                 |
| Ibaraki   | 19                   | 4                   | 135                   | 29                  | 8.2                                | 1.8                 |
| Tochigi   | 12                   | 5                   | 80                    | 30                  | 7.2                                | 2.7                 |
| Gunma     | 2                    | 0                   | 60                    | 11                  | 5.4                                | 1.0                 |
| Saitama   | 53                   | 14                  | 335                   | 119                 | 7.8                                | 2.8                 |
| Chiba     | 43                   | 13                  | 264                   | 82                  | 7.2                                | 2.2                 |
| Tokyo     | 84                   | 26                  | 655                   | 247                 | 8.0                                | 3.0                 |
| Kanagawa  | 45                   | 16                  | 343                   | 126                 | 6.4                                | 2.3                 |
| Niigata   | 7                    | 5                   | 68                    | 19                  | 5.4                                | 1.5                 |
| Toyama    | 6                    | 4                   | 52                    | 19                  | 8.8                                | 3.2                 |
| Ishikawa  | 3                    | 1                   | 37                    | 8                   | 5.7                                | 1.2                 |
| Fukui     | 2                    | 0                   | 13                    | 3                   | 3.0                                | 0.7                 |
| Yamanashi | 4                    | 2                   | 18                    | 5                   | 3.8                                | 1.1                 |
| Nagano    | 5                    | 4                   | 58                    | 26                  | 4.9                                | 2.2                 |
| Gifu      | 10                   | 1                   | 102                   | 44                  | 9.0                                | 3.9                 |
| Shizuoka  | 27                   | 10                  | 149                   | 50                  | 7.1                                | 2.4                 |
| Aichi     | 48                   | 16                  | 339                   | 104                 | 7.8                                | 2.4                 |
| Mie       | 9                    | 3                   | 86                    | 27                  | 8.5                                | 2.7                 |
| Shiga     | 6                    | 3                   | 54                    | 17                  | 6.6                                | 2.1                 |
| Kyoto     | 16                   | 6                   | 133                   | 31                  | 8.9                                | 2.1                 |
| Osaka     | 81                   | 27                  | 658                   | 230                 | 12.8                               | 4.5                 |
| Hyogo     | 43                   | 12                  | 298                   | 104                 | 9.5                                | 3.3                 |
| Nara      | 13                   | 7                   | 67                    | 33                  | 8.8                                | 4.3                 |
| Wakayama  | 9                    | 5                   | 41                    | 18                  | 7.8                                | 3.4                 |
| Tottori   | 3                    | 0                   | 16                    | 4                   | 5.0                                | 1.3                 |
| Shimane   | 2                    | 0                   | 25                    | 8                   | 6.5                                | 2.1                 |
| Okayama   | 12                   | 3                   | 84                    | 33                  | 7.7                                | 3.0                 |
| Hiroshima | 19                   | 4                   | 104                   | 30                  | 6.5                                | 1.9                 |
| Yamaguchi | 10                   | 1                   | 64                    | 20                  | 8.4                                | 2.6                 |
| Tokushima | 3                    | 0                   | 31                    | 8                   | 7.6                                | 1.9                 |
| Kagawa    | 4                    | 2                   | 35                    | 13                  | 6.4                                | 2.4                 |
| Ehime     | 12                   | 6                   | 55                    | 19                  | 7.2                                | 2.5                 |
| Kochi     | 2                    | 1                   | 23                    | 7                   | 5.8                                | 1.8                 |
| Fukuoka   | 32                   | 7                   | 225                   | 73                  | 7.5                                | 2.4                 |
| Saga      | 1                    | 0                   | 38                    | 11                  | 8.1                                | 2.4                 |
| Nagasaki  | 9                    | 2                   | 64                    | 14                  | 8.6                                | 1.9                 |
| Kumamoto  | 15                   | 3                   | 70                    | 23                  | 7.0                                | 2.3                 |
| Oita      | 8                    | 5                   | 82                    | 30                  | 12.7                               | 4.6                 |
| Miyazaki  | 5                    | 2                   | 41                    | 9                   | 6.7                                | 1.5                 |
| Kagoshima | 14                   | 7                   | 77                    | 25                  | 8.4                                | 2.7                 |
| Okinawa   | 6                    | 2                   | 65                    | 16                  | 7.6                                | 1.9                 |

Rate: summation / (population\*7/12)\*100,000

Population: as of 1st Oct. 2022

Table 4. Newly notified TB cases and rates by major city, Japan, 2023

|                        | Jul.                 |                    | Summation (Jan.-Jul.) |                    | Notification Rate<br>(per 100,000) |                    |
|------------------------|----------------------|--------------------|-----------------------|--------------------|------------------------------------|--------------------|
|                        | Newly notified<br>TB | Sputum<br>Smear(+) | Newly notified<br>TB  | Sputum<br>Smear(+) | Newly notified<br>TB               | Sputum<br>Smear(+) |
| Total                  | 247                  | 86                 | 1,889                 | 656                | 8.6                                | 3.0                |
| Sapporo City           | 8                    | 2                  | 55                    | 23                 | 4.8                                | 2.0                |
| Sendai City            | 5                    | 0                  | 24                    | 4                  | 3.7                                | 0.6                |
| Saitama City           | 10                   | 3                  | 71                    | 26                 | 9.1                                | 3.3                |
| Chiba City             | 3                    | 3                  | 36                    | 19                 | 6.3                                | 3.3                |
| Yokohama City          | 23                   | 9                  | 153                   | 57                 | 7.0                                | 2.6                |
| Kawasaki City          | 9                    | 2                  | 75                    | 25                 | 8.3                                | 2.8                |
| Sagamihara City        | 5                    | 2                  | 30                    | 13                 | 7.1                                | 3.1                |
| Niigata City           | 2                    | 2                  | 28                    | 8                  | 6.2                                | 1.8                |
| Shizuoka City          | 4                    | 2                  | 28                    | 10                 | 7.0                                | 2.5                |
| Hamamatsu City         | 9                    | 4                  | 30                    | 11                 | 6.5                                | 2.4                |
| Nagoya City            | 19                   | 10                 | 148                   | 53                 | 10.9                               | 3.9                |
| Kyoto City             | 12                   | 6                  | 82                    | 22                 | 9.7                                | 2.6                |
| Osaka City             | 32                   | 11                 | 294                   | 90                 | 18.3                               | 5.6                |
| Sakai City             | 2                    | 1                  | 52                    | 22                 | 10.9                               | 4.6                |
| Kobe City              | 15                   | 3                  | 79                    | 27                 | 9.0                                | 3.1                |
| Okayama City           | 5                    | 1                  | 27                    | 10                 | 6.4                                | 2.4                |
| Hiroshima City         | 4                    | 1                  | 31                    | 11                 | 4.5                                | 1.6                |
| Kitakyushu City        | 5                    | 1                  | 52                    | 14                 | 9.6                                | 2.6                |
| Fukuoka City           | 13                   | 3                  | 66                    | 20                 | 6.9                                | 2.1                |
| Kumamoto City          | 4                    | 1                  | 24                    | 8                  | 5.6                                | 1.9                |
| 23-ku area of<br>Tokyo | 58                   | 19                 | 504                   | 183                | 8.9                                | 3.2                |

Rate: summation / (population\*7/12)\*100,000

Population: as of 1st Oct. 2022

Major city: city with a population of one million or more.

Table 4 is a re-count of Table 3.

Table 5. LTBI cases and rates by sex and age, Japan, 2023

|       | Jul.  |      |        | Summation (Jan.-Jul.) |       |        | (Ratio) LTBI/Newly notified cases |      |        |
|-------|-------|------|--------|-----------------------|-------|--------|-----------------------------------|------|--------|
|       | Total | Male | Female | Total                 | Male  | Female | Total                             | Male | Female |
| Total | 369   | 187  | 182    | 2,633                 | 1,315 | 1,318  | 0.5                               | 0.4  | 0.6    |
| 0~4   | 14    | 8    | 6      | 143                   | 61    | 82     | 13.0                              | 10.2 | 16.4   |
| 5~9   | 3     | 2    | 1      | 18                    | 9     | 9      | 9.0                               | -    | 4.5    |
| 10~14 | 4     | 0    | 4      | 15                    | 6     | 9      | 2.1                               | 6.0  | 1.5    |
| 15~19 | 5     | 3    | 2      | 36                    | 15    | 21     | 0.7                               | 0.5  | 0.9    |
| 20~24 | 26    | 18   | 8      | 170                   | 83    | 87     | 0.6                               | 0.5  | 0.7    |
| 25~29 | 21    | 14   | 7      | 154                   | 82    | 72     | 0.6                               | 0.6  | 0.6    |
| 30~34 | 18    | 9    | 9      | 114                   | 57    | 57     | 0.7                               | 0.6  | 0.7    |
| 35~39 | 14    | 6    | 8      | 93                    | 55    | 38     | 0.8                               | 0.8  | 0.8    |
| 40~44 | 16    | 7    | 9      | 92                    | 40    | 52     | 0.8                               | 0.6  | 0.9    |
| 45~49 | 16    | 4    | 12     | 131                   | 44    | 87     | 0.9                               | 0.5  | 1.3    |
| 50~54 | 29    | 11   | 18     | 177                   | 64    | 113    | 0.9                               | 0.5  | 1.7    |
| 55~59 | 28    | 14   | 14     | 170                   | 69    | 101    | 0.8                               | 0.5  | 1.2    |
| 60~64 | 21    | 12   | 9      | 160                   | 91    | 69     | 0.7                               | 0.5  | 1.3    |
| 65~69 | 26    | 16   | 10     | 192                   | 112   | 80     | 0.8                               | 0.6  | 1.2    |
| 70~74 | 28    | 16   | 12     | 253                   | 144   | 109    | 0.5                               | 0.4  | 0.8    |
| 75~79 | 40    | 19   | 21     | 271                   | 148   | 123    | 0.4                               | 0.4  | 0.6    |
| 80~84 | 27    | 11   | 16     | 219                   | 130   | 89     | 0.3                               | 0.3  | 0.3    |
| 85~89 | 21    | 12   | 9      | 150                   | 76    | 74     | 0.2                               | 0.2  | 0.2    |
| 90~   | 12    | 5    | 7      | 75                    | 29    | 46     | 0.1                               | 0.1  | 0.1    |

LTBI: latent TB Infection

Number of LTBI is not included in the newly notified TB patients



Table 6. LTBI cases and rates by prefecture, Japan, 2023

|           | Jul. | Summation (Jan.-Jul.) |                          |
|-----------|------|-----------------------|--------------------------|
|           | LTBI | LTBI                  | (Ratio) LTBI<br>/ new TB |
| Total     | 369  | 2,633                 | 0.48                     |
| Hokkaido  | 12   | 98                    | 0.62                     |
| Aomori    | 4    | 20                    | 0.51                     |
| Iwate     | 1    | 17                    | 0.81                     |
| Miyagi    | 9    | 48                    | 0.73                     |
| Akita     | 3    | 11                    | 0.42                     |
| Yamagata  | 1    | 5                     | 0.20                     |
| Fukushima | 3    | 13                    | 0.25                     |
| Ibaraki   | 13   | 76                    | 0.56                     |
| Tochigi   | 4    | 26                    | 0.33                     |
| Gunma     | 2    | 14                    | 0.23                     |
| Saitama   | 17   | 178                   | 0.53                     |
| Chiba     | 21   | 141                   | 0.53                     |
| Tokyo     | 56   | 348                   | 0.53                     |
| Kanagawa  | 32   | 170                   | 0.50                     |
| Niigata   | 7    | 28                    | 0.41                     |
| Toyama    | 5    | 26                    | 0.50                     |
| Ishikawa  | 1    | 14                    | 0.38                     |
| Fukui     | 0    | 9                     | 0.69                     |
| Yamanashi | 1    | 6                     | 0.33                     |
| Nagano    | 3    | 28                    | 0.48                     |
| Gifu      | 10   | 42                    | 0.41                     |
| Shizuoka  | 4    | 33                    | 0.22                     |
| Aichi     | 19   | 173                   | 0.51                     |
| Mie       | 2    | 18                    | 0.21                     |
| Shiga     | 0    | 15                    | 0.28                     |
| Kyoto     | 11   | 68                    | 0.51                     |
| Osaka     | 36   | 315                   | 0.48                     |
| Hyogo     | 14   | 98                    | 0.33                     |
| Nara      | 5    | 40                    | 0.60                     |
| Wakayama  | 3    | 20                    | 0.49                     |
| Tottori   | 0    | 3                     | 0.19                     |
| Shimane   | 2    | 9                     | 0.36                     |
| Okayama   | 9    | 46                    | 0.55                     |
| Hiroshima | 5    | 95                    | 0.91                     |
| Yamaguchi | 4    | 30                    | 0.47                     |
| Tokushima | 1    | 9                     | 0.29                     |
| Kagawa    | 0    | 19                    | 0.54                     |
| Ehime     | 3    | 11                    | 0.20                     |
| Kochi     | 0    | 3                     | 0.13                     |
| Fukuoka   | 18   | 110                   | 0.49                     |
| Saga      | 0    | 6                     | 0.16                     |
| Nagasaki  | 2    | 20                    | 0.31                     |
| Kumamoto  | 2    | 24                    | 0.34                     |
| Oita      | 7    | 41                    | 0.50                     |
| Miyazaki  | 2    | 19                    | 0.46                     |
| Kagoshima | 8    | 32                    | 0.42                     |
| Okinawa   | 7    | 58                    | 0.89                     |

LTBI: Latent TB Infection

Number of LTBI is not included in the newly notified TB patients.

Table 7. LTBI cases and rates by major city, Japan, 2023

|                     | Jul. | Summation (Jan.-Jul.) |                          |
|---------------------|------|-----------------------|--------------------------|
|                     | LTBI | LTBI                  | (Ratio) LTBI<br>/ new TB |
| Total               | 137  | 952                   | 0.50                     |
| Sapporo City        | 8    | 47                    | 0.85                     |
| Sendai City         | 3    | 21                    | 0.88                     |
| Saitama City        | 1    | 42                    | 0.59                     |
| Chiba City          | 0    | 14                    | 0.39                     |
| Yokohama City       | 15   | 63                    | 0.41                     |
| Kawasaki City       | 11   | 42                    | 0.56                     |
| Sagamihara City     | 2    | 13                    | 0.43                     |
| Niigata City        | 2    | 10                    | 0.36                     |
| Shizuoka City       | 0    | 2                     | 0.07                     |
| Hamamatsu City      | 1    | 13                    | 0.43                     |
| Nagoya City         | 10   | 85                    | 0.57                     |
| Kyoto City          | 9    | 42                    | 0.51                     |
| Osaka City          | 11   | 128                   | 0.44                     |
| Sakai City          | 6    | 31                    | 0.60                     |
| Kobe City           | 2    | 26                    | 0.33                     |
| Okayama City        | 4    | 24                    | 0.89                     |
| Hiroshima City      | 2    | 25                    | 0.81                     |
| Kitakyushu City     | 3    | 24                    | 0.46                     |
| Fukuoka City        | 7    | 27                    | 0.41                     |
| Kumamoto City       | 1    | 6                     | 0.25                     |
| 23-ku area of Tokyo | 39   | 267                   | 0.53                     |

LTBI: Latent TB Infection

Number of LTBI is not included in the newly notified TB patients,

Major city: city with a population of one million or more

Table 7 is a re-count of Table 6