



## Monthly Report of Tuberculosis Surveillance, Japan – July, 2019

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, 2016-2019

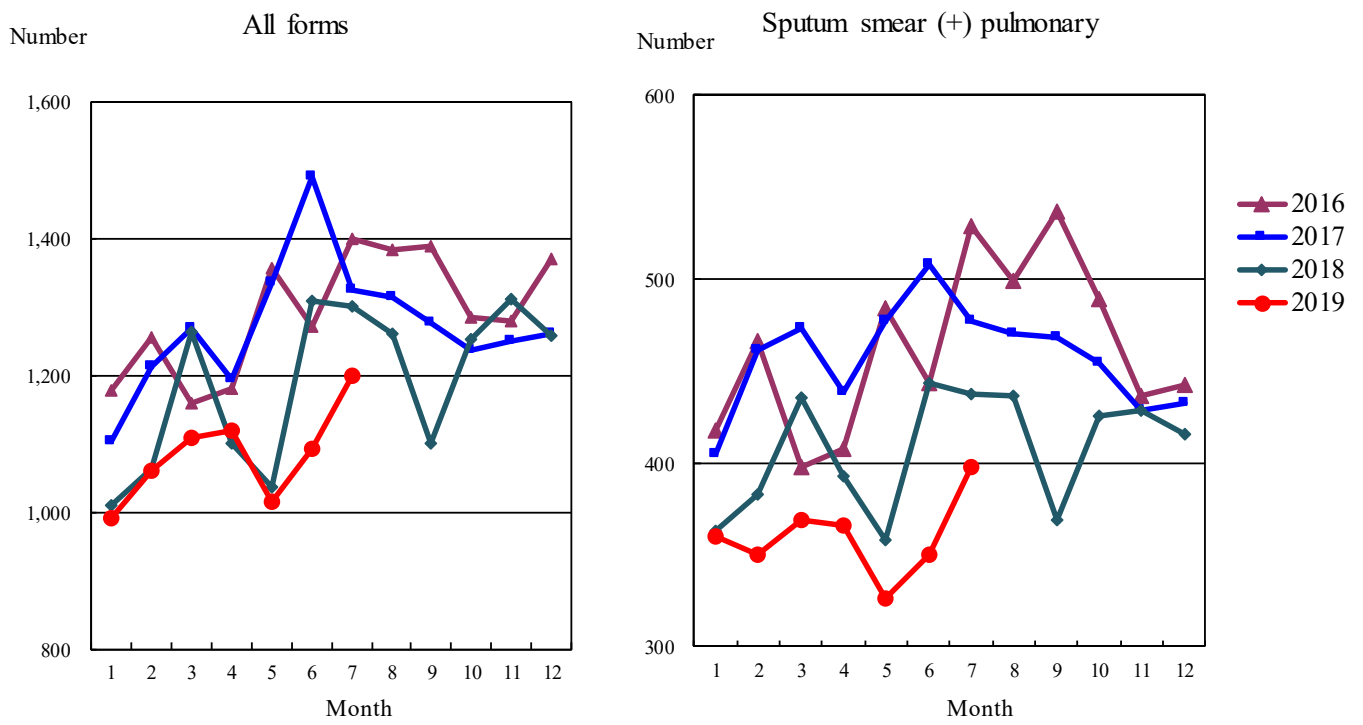


Figure 2. Newly notified TB patients by sex and age, Japan, summation (Jan.-Jul.) 2019

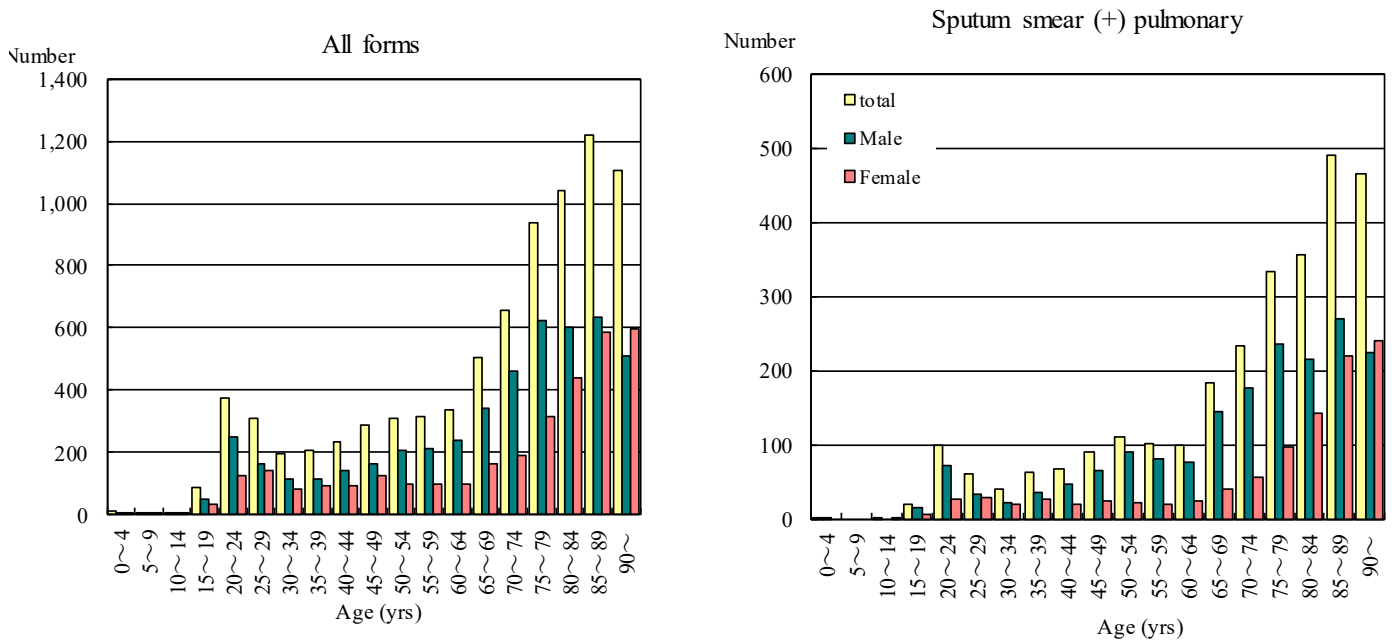


Figure 3. Notification rate of TB cases by sex and age, Japan, summation (Jan.-Jul.) 2019

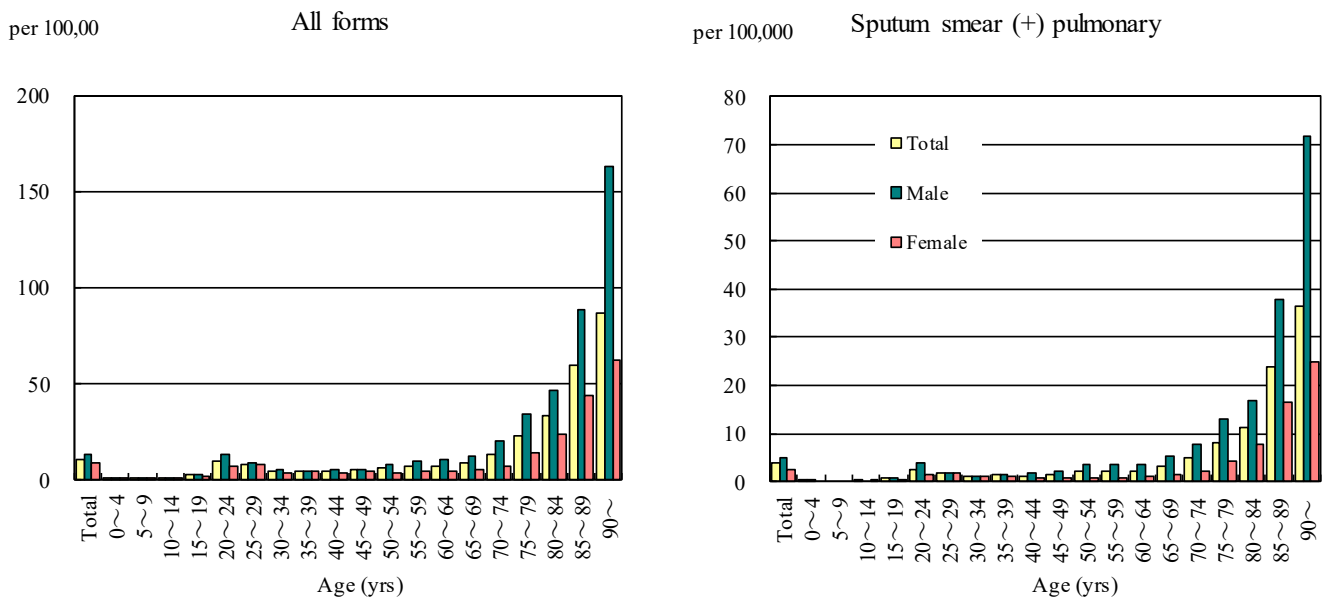


Figure 4. Notification rates of TB by prefecture, Japan, summation (Jan.-Jul.) 2019

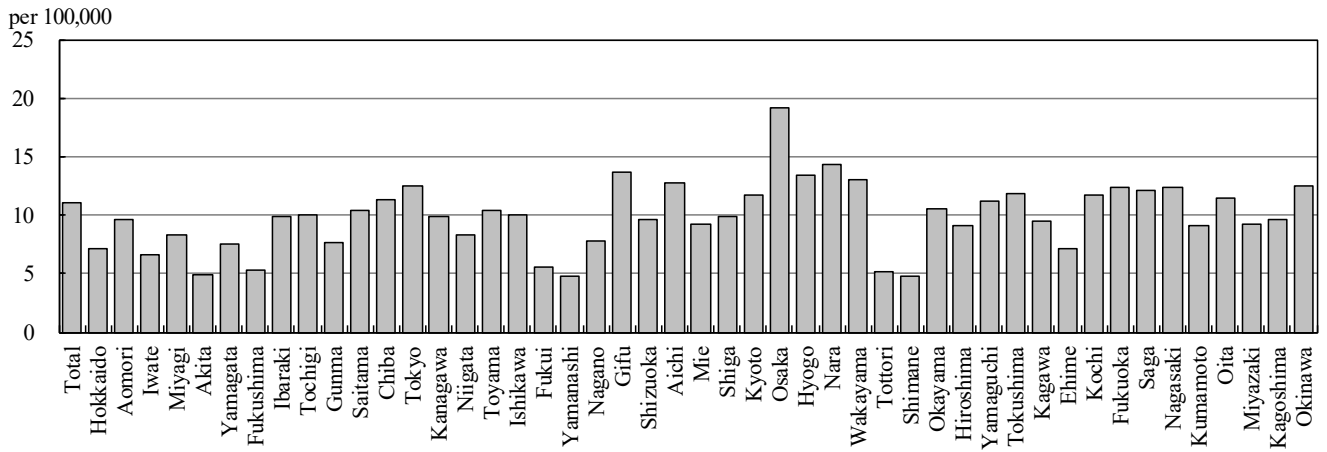


Figure 5. Notification rates of TB major city, Japan, summation (Jan.-Jul.) 2019

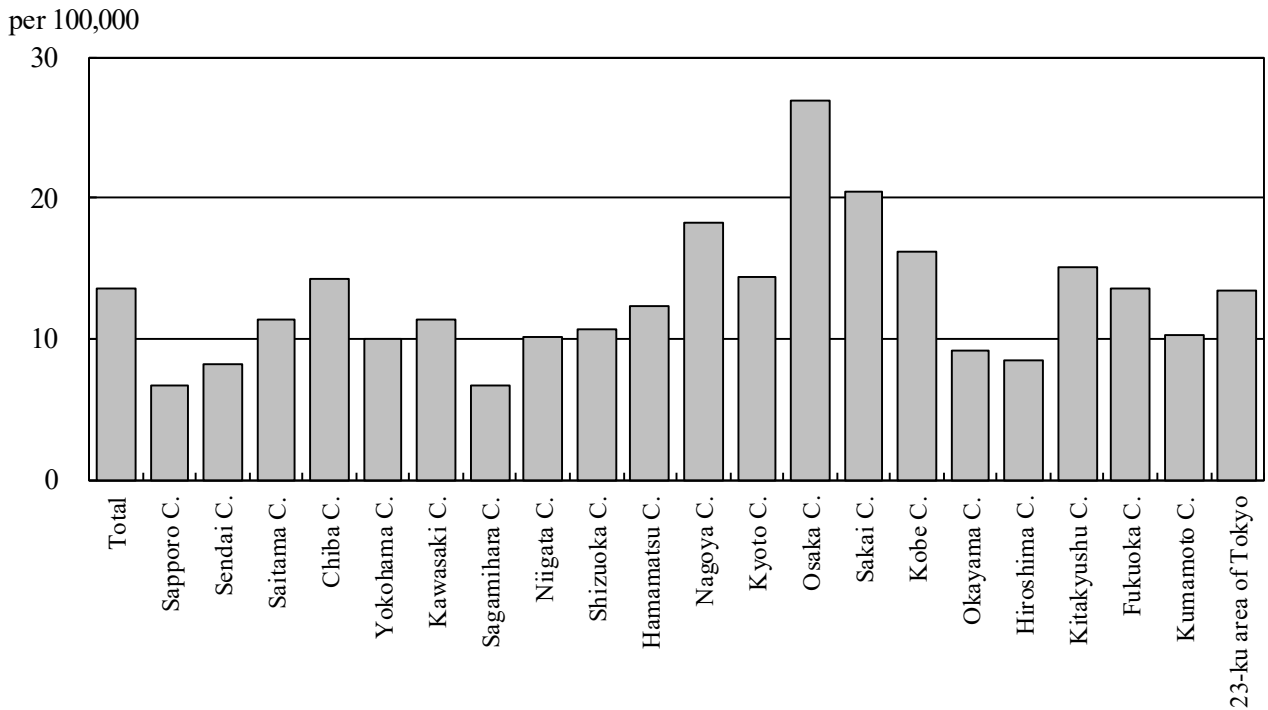


Figure 6. Number of LTBI, Japan, 2016-2019

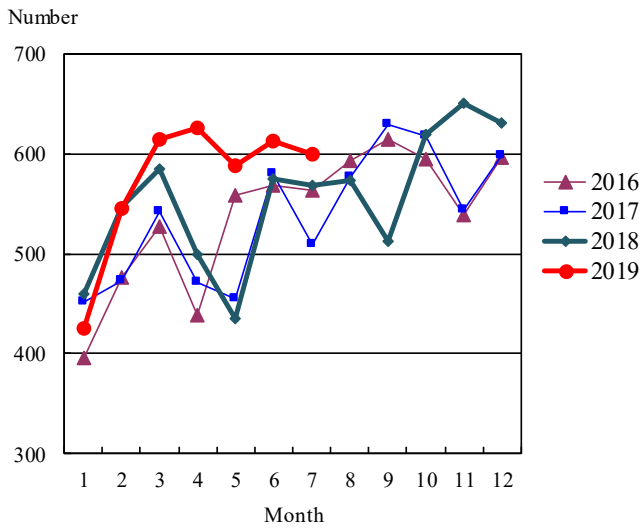


Figure 7. Number of LTBI by sex and age group, Japan, summation (Jan.-Jul.) 2019

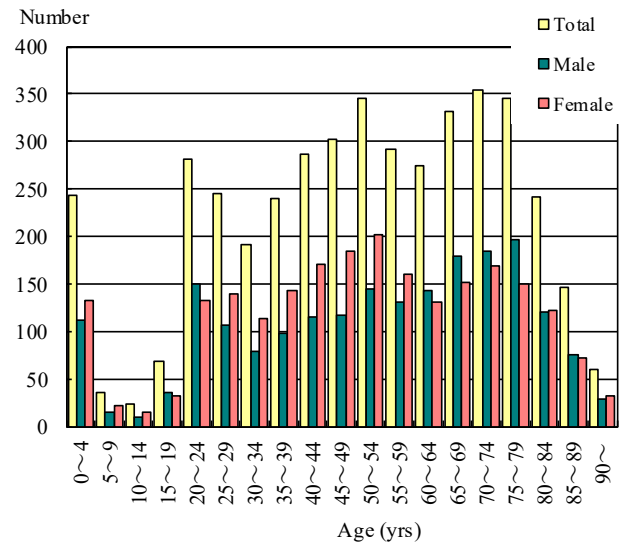


Table 1. Newly notified TB cases and rates by sex and age, Japan, 2019

|       | Jul.  |      |        | Summation (Jan.-Jul.) |       |        | Notification rate<br>(per 100,000) |       |        |
|-------|-------|------|--------|-----------------------|-------|--------|------------------------------------|-------|--------|
|       | Total | Male | Female | Total                 | Male  | Female | Total                              | Male  | Female |
| Total | 1,200 | 743  | 457    | 8,151                 | 4,846 | 3,305  | 11.1                               | 13.5  | 8.7    |
| 0~4   | 2     | 0    | 2      | 13                    | 5     | 8      | 0.5                                | 0.3   | 0.6    |
| 5~9   | 0     | 0    | 0      | 5                     | 4     | 1      | 0.2                                | 0.3   | 0.1    |
| 10~14 | 1     | 0    | 1      | 8                     | 5     | 3      | 0.3                                | 0.3   | 0.2    |
| 15~19 | 14    | 8    | 6      | 87                    | 51    | 36     | 2.5                                | 2.9   | 2.1    |
| 20~24 | 68    | 46   | 22     | 375                   | 249   | 126    | 10.2                               | 13.1  | 7.0    |
| 25~29 | 50    | 29   | 21     | 309                   | 166   | 143    | 8.5                                | 8.9   | 8.1    |
| 30~34 | 33    | 21   | 12     | 199                   | 116   | 83     | 4.9                                | 5.6   | 4.2    |
| 35~39 | 25    | 14   | 11     | 208                   | 114   | 94     | 4.6                                | 5.0   | 4.2    |
| 40~44 | 38    | 19   | 19     | 234                   | 142   | 92     | 4.4                                | 5.3   | 3.5    |
| 45~49 | 50    | 30   | 20     | 290                   | 162   | 128    | 5.1                                | 5.7   | 4.6    |
| 50~54 | 46    | 35   | 11     | 309                   | 208   | 101    | 6.3                                | 8.5   | 4.2    |
| 55~59 | 43    | 29   | 14     | 313                   | 213   | 100    | 7.0                                | 9.6   | 4.5    |
| 60~64 | 45    | 32   | 13     | 335                   | 238   | 97     | 7.6                                | 10.9  | 4.3    |
| 65~69 | 80    | 52   | 28     | 505                   | 342   | 163    | 9.2                                | 12.9  | 5.8    |
| 70~74 | 112   | 84   | 28     | 655                   | 464   | 191    | 13.6                               | 20.6  | 7.5    |
| 75~79 | 119   | 80   | 39     | 940                   | 623   | 317    | 23.2                               | 34.4  | 14.2   |
| 80~84 | 155   | 96   | 59     | 1,039                 | 601   | 438    | 33.3                               | 47.0  | 23.8   |
| 85~89 | 150   | 80   | 70     | 1,219                 | 634   | 585    | 59.5                               | 88.7  | 43.8   |
| 90~   | 169   | 88   | 81     | 1,108                 | 509   | 599    | 87.0                               | 162.4 | 62.4   |

Temporary registrants = 83, Total of registrants and temporary registrants = 1,283

Rate: summation / (population\*1/12)\*100,000

Population: as of 1st Oct. 2018

Table 2. Newly notified sputum smear positive pulmonary TB cases and rates by sex and age, Japan, 2019

|       | Jul.  |      |        | Summation (Jan.-Jul.) |       |        | Notification rate<br>(per 100,000) |      |        |
|-------|-------|------|--------|-----------------------|-------|--------|------------------------------------|------|--------|
|       | Total | Male | Female | Total                 | Male  | Female | Total                              | Male | Female |
| Total | 398   | 274  | 124    | 2,807                 | 1,800 | 1,007  | 3.8                                | 5.0  | 2.7    |
| 0~4   | 0     | 0    | 0      | 1                     | 1     | 0      | 0.0                                | 0.1  | 0.0    |
| 5~9   | 0     | 0    | 0      | 0                     | 0     | 0      | 0.0                                | 0.0  | 0.0    |
| 10~14 | 1     | 0    | 1      | 1                     | 0     | 1      | 0.0                                | 0.0  | 0.1    |
| 15~19 | 6     | 5    | 1      | 20                    | 14    | 6      | 0.6                                | 0.8  | 0.4    |
| 20~24 | 12    | 9    | 3      | 98                    | 71    | 27     | 2.7                                | 3.7  | 1.5    |
| 25~29 | 10    | 4    | 6      | 61                    | 32    | 29     | 1.7                                | 1.7  | 1.6    |
| 30~34 | 8     | 4    | 4      | 40                    | 21    | 19     | 1.0                                | 1.0  | 1.0    |
| 35~39 | 7     | 3    | 4      | 62                    | 36    | 26     | 1.4                                | 1.6  | 1.2    |
| 40~44 | 8     | 5    | 3      | 66                    | 47    | 19     | 1.2                                | 1.7  | 0.7    |
| 45~49 | 12    | 10   | 2      | 89                    | 65    | 24     | 1.6                                | 2.3  | 0.9    |
| 50~54 | 18    | 17   | 1      | 110                   | 89    | 21     | 2.3                                | 3.6  | 0.9    |
| 55~59 | 10    | 8    | 2      | 101                   | 81    | 20     | 2.3                                | 3.6  | 0.9    |
| 60~64 | 12    | 10   | 2      | 99                    | 76    | 23     | 2.2                                | 3.5  | 1.0    |
| 65~69 | 29    | 21   | 8      | 184                   | 144   | 40     | 3.4                                | 5.4  | 1.4    |
| 70~74 | 37    | 31   | 6      | 232                   | 177   | 55     | 4.8                                | 7.8  | 2.2    |
| 75~79 | 46    | 34   | 12     | 332                   | 236   | 96     | 8.2                                | 13.0 | 4.3    |
| 80~84 | 45    | 30   | 15     | 356                   | 215   | 141    | 11.4                               | 16.8 | 7.7    |
| 85~89 | 61    | 39   | 22     | 490                   | 270   | 220    | 23.9                               | 37.8 | 16.5   |
| 90~   | 76    | 44   | 32     | 465                   | 225   | 240    | 36.5                               | 71.8 | 25.0   |

Rate: summation / (population\*1/12)\*100,000

Population: as of 1st Oct. 2018

Table 3. Newly notified TB cases and rates by prefecture, Japan, 2019

|           | 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     | 1,200                | 398                 | 8,151                 | 2,807               | 11.1                               | 3.8                 |
| Hokkaido  | 28                   | 6                   | 219                   | 71                  | 7.1                                | 2.3                 |
| Aomori    | 13                   | 6                   | 71                    | 31                  | 9.6                                | 4.2                 |
| Iwate     | 4                    | 1                   | 48                    | 18                  | 6.6                                | 2.5                 |
| Miyagi    | 12                   | 3                   | 112                   | 35                  | 8.3                                | 2.6                 |
| Akita     | 1                    | 1                   | 28                    | 12                  | 4.9                                | 2.1                 |
| Yamagata  | 8                    | 1                   | 48                    | 21                  | 7.5                                | 3.3                 |
| Fukushima | 8                    | 1                   | 57                    | 16                  | 5.2                                | 1.5                 |
| Ibaraki   | 26                   | 10                  | 165                   | 49                  | 9.8                                | 2.9                 |
| Tochigi   | 16                   | 6                   | 114                   | 48                  | 10.0                               | 4.2                 |
| Gunma     | 12                   | 5                   | 87                    | 26                  | 7.6                                | 2.3                 |
| Saitama   | 66                   | 25                  | 445                   | 152                 | 10.4                               | 3.6                 |
| Chiba     | 69                   | 20                  | 412                   | 143                 | 11.3                               | 3.9                 |
| Tokyo     | 165                  | 38                  | 1,005                 | 322                 | 12.5                               | 4.0                 |
| Kanagawa  | 69                   | 20                  | 530                   | 166                 | 9.9                                | 3.1                 |
| Niigata   | 13                   | 5                   | 109                   | 31                  | 8.3                                | 2.4                 |
| Toyama    | 8                    | 2                   | 64                    | 17                  | 10.4                               | 2.8                 |
| Ishikawa  | 11                   | 5                   | 67                    | 23                  | 10.0                               | 3.4                 |
| Fukui     | 2                    | 0                   | 25                    | 5                   | 5.5                                | 1.1                 |
| Yamanashi | 0                    | 0                   | 23                    | 11                  | 4.8                                | 2.3                 |
| Nagano    | 10                   | 3                   | 94                    | 36                  | 7.8                                | 3.0                 |
| Gifu      | 21                   | 6                   | 160                   | 55                  | 13.7                               | 4.7                 |
| Shizuoka  | 28                   | 9                   | 206                   | 79                  | 9.7                                | 3.7                 |
| Aichi     | 82                   | 33                  | 560                   | 183                 | 12.7                               | 4.2                 |
| Mie       | 22                   | 8                   | 96                    | 33                  | 9.2                                | 3.2                 |
| Shiga     | 14                   | 4                   | 81                    | 25                  | 9.8                                | 3.0                 |
| Kyoto     | 20                   | 7                   | 178                   | 65                  | 11.8                               | 4.3                 |
| Osaka     | 146                  | 57                  | 984                   | 380                 | 19.1                               | 7.4                 |
| Hyogo     | 66                   | 20                  | 431                   | 154                 | 13.5                               | 4.8                 |
| Nara      | 20                   | 10                  | 112                   | 47                  | 14.3                               | 6.0                 |
| Wakayama  | 14                   | 5                   | 71                    | 30                  | 13.0                               | 5.5                 |
| Tottori   | 4                    | 0                   | 17                    | 4                   | 5.2                                | 1.2                 |
| Shimane   | 1                    | 1                   | 19                    | 7                   | 4.8                                | 1.8                 |
| Okayama   | 14                   | 9                   | 117                   | 41                  | 10.6                               | 3.7                 |
| Hiroshima | 18                   | 5                   | 150                   | 53                  | 9.1                                | 3.2                 |
| Yamaguchi | 13                   | 5                   | 89                    | 28                  | 11.1                               | 3.5                 |
| Tokushima | 7                    | 2                   | 51                    | 18                  | 11.9                               | 4.2                 |
| Kagawa    | 8                    | 3                   | 53                    | 19                  | 9.4                                | 3.4                 |
| Ehime     | 11                   | 5                   | 56                    | 22                  | 7.1                                | 2.8                 |
| Kochi     | 8                    | 2                   | 48                    | 16                  | 11.7                               | 3.9                 |
| Fukuoka   | 64                   | 22                  | 370                   | 108                 | 12.4                               | 3.6                 |
| Saga      | 12                   | 5                   | 58                    | 21                  | 12.1                               | 4.4                 |
| Nagasaki  | 14                   | 5                   | 97                    | 32                  | 12.4                               | 4.1                 |
| Kumamoto  | 14                   | 5                   | 93                    | 27                  | 9.1                                | 2.6                 |
| Oita      | 10                   | 6                   | 76                    | 38                  | 11.4                               | 5.7                 |
| Miyazaki  | 12                   | 3                   | 58                    | 24                  | 9.2                                | 3.8                 |
| Kagoshima | 11                   | 3                   | 91                    | 35                  | 9.7                                | 3.7                 |
| Okinawa   | 5                    | 0                   | 106                   | 30                  | 12.6                               | 3.6                 |

Rate: summation / (population\*1/12)\*100,000

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Population: as of 1st Oct. 2018

Table 4. Newly notified TB cases and rates by major city, Japan, 2019

|                        | 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                  | 445                  | 145                | 2,929                 | 995                | 13.5                               | 4.6                |
| Sapporo City           | 9                    | 1                  | 76                    | 26                 | 6.6                                | 2.3                |
| Sendai City            | 4                    | 1                  | 52                    | 19                 | 8.2                                | 3.0                |
| Saitama City           | 14                   | 4                  | 86                    | 26                 | 11.3                               | 3.4                |
| Chiba City             | 15                   | 6                  | 81                    | 33                 | 14.2                               | 5.8                |
| Yokohama City          | 34                   | 10                 | 217                   | 61                 | 9.9                                | 2.8                |
| Kawasaki City          | 18                   | 3                  | 101                   | 27                 | 11.4                               | 3.1                |
| Sagamihara City        | 3                    | 1                  | 28                    | 14                 | 6.6                                | 3.3                |
| Niigata City           | 7                    | 2                  | 47                    | 13                 | 10.1                               | 2.8                |
| Shizuoka City          | 6                    | 2                  | 44                    | 18                 | 10.7                               | 4.4                |
| Hamamatsu City         | 14                   | 3                  | 57                    | 15                 | 12.3                               | 3.2                |
| Nagoya City            | 41                   | 19                 | 247                   | 92                 | 18.2                               | 6.8                |
| Kyoto City             | 16                   | 7                  | 123                   | 49                 | 14.4                               | 5.7                |
| Osaka City             | 60                   | 21                 | 428                   | 169                | 26.9                               | 10.6               |
| Sakai City             | 13                   | 9                  | 100                   | 47                 | 20.5                               | 9.6                |
| Kobe City              | 20                   | 7                  | 144                   | 41                 | 16.2                               | 4.6                |
| Okayama City           | 3                    | 1                  | 38                    | 9                  | 9.2                                | 2.2                |
| Hiroshima City         | 7                    | 2                  | 59                    | 19                 | 8.4                                | 2.7                |
| Kitakyushu City        | 11                   | 3                  | 83                    | 18                 | 15.0                               | 3.3                |
| Fukuoka City           | 22                   | 9                  | 125                   | 40                 | 13.6                               | 4.3                |
| Kumamoto City          | 10                   | 5                  | 44                    | 17                 | 10.2                               | 3.9                |
| 23-ku area of<br>Tokyo | 118                  | 29                 | 749                   | 242                | 13.5                               | 4.3                |

Rate: summation / (population\*1/12)\*100,000

Population: as of 1st Oct. 2018

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, 2019

|       | Jul.  |      |        | Summation (Jan.-Jul.) |       |        | (Ratio) LTBI/Newly notified cases |      |        |
|-------|-------|------|--------|-----------------------|-------|--------|-----------------------------------|------|--------|
|       | Total | Male | Female | Total                 | Male  | Female | Total                             | Male | Female |
| Total | 599   | 280  | 319    | 4,306                 | 2,036 | 2,270  | 0.5                               | 0.4  | 0.7    |
| 0~4   | 20    | 8    | 12     | 243                   | 111   | 132    | 18.7                              | 22.2 | 16.5   |
| 5~9   | 3     | 2    | 1      | 35                    | 14    | 21     | 7.0                               | 3.5  | 21.0   |
| 10~14 | 2     | 1    | 1      | 23                    | 9     | 14     | 2.9                               | 1.8  | 4.7    |
| 15~19 | 5     | 3    | 2      | 68                    | 36    | 32     | 0.8                               | 0.7  | 0.9    |
| 20~24 | 28    | 13   | 15     | 281                   | 149   | 132    | 0.7                               | 0.6  | 1.0    |
| 25~29 | 38    | 15   | 23     | 245                   | 106   | 139    | 0.8                               | 0.6  | 1.0    |
| 30~34 | 29    | 11   | 18     | 192                   | 78    | 114    | 1.0                               | 0.7  | 1.4    |
| 35~39 | 30    | 13   | 17     | 240                   | 97    | 143    | 1.2                               | 0.9  | 1.5    |
| 40~44 | 34    | 11   | 23     | 286                   | 116   | 170    | 1.2                               | 0.8  | 1.8    |
| 45~49 | 55    | 25   | 30     | 302                   | 117   | 185    | 1.0                               | 0.7  | 1.4    |
| 50~54 | 46    | 18   | 28     | 346                   | 145   | 201    | 1.1                               | 0.7  | 2.0    |
| 55~59 | 54    | 21   | 33     | 291                   | 131   | 160    | 0.9                               | 0.6  | 1.6    |
| 60~64 | 35    | 15   | 20     | 274                   | 143   | 131    | 0.8                               | 0.6  | 1.4    |
| 65~69 | 50    | 27   | 23     | 332                   | 180   | 152    | 0.7                               | 0.5  | 0.9    |
| 70~74 | 57    | 34   | 23     | 354                   | 185   | 169    | 0.5                               | 0.4  | 0.9    |
| 75~79 | 52    | 31   | 21     | 346                   | 196   | 150    | 0.4                               | 0.3  | 0.5    |
| 80~84 | 40    | 21   | 19     | 242                   | 120   | 122    | 0.2                               | 0.2  | 0.3    |
| 85~89 | 18    | 9    | 9      | 146                   | 75    | 71     | 0.1                               | 0.1  | 0.1    |
| 90~   | 3     | 2    | 1      | 60                    | 28    | 32     | 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, 2019

|           | Jul. | Summation (Jan.-Jul.) |                         |
|-----------|------|-----------------------|-------------------------|
|           | LTBI | LTBI                  | (Ratio) LTBI<br>/new TB |
| Total     | 599  | 4,306                 | 0.53                    |
| Hokkaido  | 28   | 153                   | 0.70                    |
| Aomori    | 6    | 67                    | 0.94                    |
| Iwate     | 2    | 46                    | 0.96                    |
| Miyagi    | 17   | 96                    | 0.86                    |
| Akita     | 1    | 22                    | 0.79                    |
| Yamagata  | 1    | 22                    | 0.46                    |
| Fukushima | 9    | 30                    | 0.53                    |
| Ibaraki   | 9    | 111                   | 0.67                    |
| Tochigi   | 2    | 39                    | 0.34                    |
| Gunma     | 6    | 42                    | 0.48                    |
| Saitama   | 27   | 290                   | 0.65                    |
| Chiba     | 35   | 211                   | 0.51                    |
| Tokyo     | 90   | 567                   | 0.56                    |
| Kanagawa  | 38   | 270                   | 0.51                    |
| Niigata   | 16   | 74                    | 0.68                    |
| Toyama    | 10   | 40                    | 0.63                    |
| Ishikawa  | 2    | 34                    | 0.51                    |
| Fukui     | 2    | 8                     | 0.32                    |
| Yamanashi | 1    | 15                    | 0.65                    |
| Nagano    | 11   | 80                    | 0.85                    |
| Gifu      | 7    | 51                    | 0.32                    |
| Shizuoka  | 7    | 57                    | 0.28                    |
| Aichi     | 35   | 257                   | 0.46                    |
| Mie       | 5    | 51                    | 0.53                    |
| Shiga     | 3    | 49                    | 0.60                    |
| Kyoto     | 12   | 92                    | 0.52                    |
| Osaka     | 56   | 406                   | 0.41                    |
| Hyogo     | 42   | 200                   | 0.46                    |
| Nara      | 10   | 50                    | 0.45                    |
| Wakayama  | 5    | 26                    | 0.37                    |
| Tottori   | 0    | 3                     | 0.18                    |
| Shimane   | 0    | 6                     | 0.32                    |
| Okayama   | 11   | 76                    | 0.65                    |
| Hiroshima | 3    | 87                    | 0.58                    |
| Yamaguchi | 6    | 39                    | 0.44                    |
| Tokushima | 2    | 21                    | 0.41                    |
| Kagawa    | 2    | 21                    | 0.40                    |
| Ehime     | 3    | 21                    | 0.38                    |
| Kochi     | 2    | 19                    | 0.40                    |
| Fukuoka   | 29   | 210                   | 0.57                    |
| Saga      | 7    | 24                    | 0.41                    |
| Nagasaki  | 5    | 33                    | 0.34                    |
| Kumamoto  | 3    | 24                    | 0.26                    |
| Oita      | 7    | 43                    | 0.57                    |
| Miyazaki  | 5    | 58                    | 1.00                    |
| Kagoshima | 14   | 81                    | 0.89                    |
| Okinawa   | 5    | 84                    | 0.79                    |

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, 2019

|                     | Jul. | Summation (Jan.-Jul.) |                          |
|---------------------|------|-----------------------|--------------------------|
|                     | LTBI | LTBI                  | (Ratio) LTBI<br>/ new TB |
| Total               | 222  | 1,461                 | 0.50                     |
| Sapporo City        | 17   | 82                    | 1.08                     |
| Sendai City         | 8    | 44                    | 0.85                     |
| Saitama City        | 7    | 38                    | 0.44                     |
| Chiba City          | 10   | 33                    | 0.41                     |
| Yokohama City       | 11   | 77                    | 0.35                     |
| Kawasaki City       | 10   | 77                    | 0.76                     |
| Sagamihara City     | 2    | 17                    | 0.61                     |
| Niigata City        | 7    | 33                    | 0.70                     |
| Shizuoka City       | 0    | 13                    | 0.30                     |
| Hamamatsu City      | 4    | 9                     | 0.16                     |
| Nagoya City         | 17   | 100                   | 0.40                     |
| Kyoto City          | 6    | 59                    | 0.48                     |
| Osaka City          | 17   | 180                   | 0.42                     |
| Sakai City          | 13   | 44                    | 0.44                     |
| Kobe City           | 10   | 58                    | 0.40                     |
| Okayama City        | 8    | 41                    | 1.08                     |
| Hiroshima City      | 0    | 31                    | 0.53                     |
| Kitakyushu City     | 8    | 35                    | 0.42                     |
| Fukuoka City        | 8    | 81                    | 0.65                     |
| Kumamoto City       | 2    | 13                    | 0.30                     |
| 23-ku area of Tokyo | 57   | 396                   | 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