EPIDEMIOLOGY OF TUBERCULOSIS, FRANCE

2017 DATA

SANTÉ PUBLIQUE FRANCE – INFECTIOUS DISEASES DIVISION

Update: March 2019.
NATIONAL TUBERCULOSIS SURVEILLANCE IN FRANCE: DATA SOURCES

**Mandatory notification (Santé publique France)**

- Tuberculosis disease since 1964
- Latent tuberculosis infection (children < 15 years old) since 2003
- Treatment outcome surveillance on tuberculosis disease since 2007

**Laboratory data (National reference centre for mycobacteria and anti-tuberculosis drug resistance)**

- MDR case reports
- Anti-TB drug resistance (Network of laboratory hospital)

**Mortality data (INSERM, CépiDc):** death certificates
CASE DEFINITIONS FOR TUBERCULOSIS SURVEILLANCE IN FRANCE

**Tuberculosis disease**
Disease confirmed by culture (*Mycobacterium tuberculosis* complex).
Or
Clinical and/or radiological signs compatible with tuberculosis and clinician’s decision to treat with a full antiTB treatment.

**Tuberculosis infection (in persons aged < 15 years old)**
Positive 5TU tuberculin skin test without clinical or paraclinical signs (induration > 15mm if BCG, or > 10 mm without BCG, or increase of at least 10 mm compared to previous TST < 2 years).

**Mycobacteria from tuberculosis complex:**
*M. tuberculosis, M. bovis, M. africanum*
*M. micotti, M. canetti, M. pinnipedii, M. caprae*
TUBERCULOSIS MORBIDITY, FRANCE**, 1972-2017

** Overseas districts not included

Sources: Santé publique France (mandatory notification), INSERM (CépiDc), INSEE (population estimate)
NUMBER OF TUBERCULOSIS CASES AND NOTIFICATION RATES BY CLINICAL FORM, FRANCE, 2000-2017

Number of tuberculosis cases and notification rate, France, 2000-2017

Sources: Santé publique France (mandatory notification)
NUMBER OF TUBERCULOSIS CASES AND NOTIFICATION RATE BY REGION, FRANCE, 2017

Source: Santé publique France, mandatory notification, INSEE, population estimate
TUBERCULOSIS CASES AND NOTIFICATION RATE BY REGION*, FRANCE, 2017

* Région of notification

Source: Santé publique France, mandatory notification, INSEE, population estimate
TUBERCULOSIS CASES NOTIFIED BY SITE OF DISEASE, FRANCE, 2017

Total notified cases: 5005

Pulmonary TB*: 3557 (71%)

- Sputum smear positive TB**: 1565
- Sputum smear negative or unknown and positive culture TB**: 1089
- Other pulmonary TB*: 903

Exclusively extra pulm TB: 1421 (28%)

- Pleural or intra thoracic lymph node TB: 775
- Other exclusively extra pulmonary TB: 646

Unknown information on site of disease: 27

111 TB meningites cases with or without other localisation

* with or without extra pulmonary localisation
** respiratory specimen

Source: Santé publique France, mandatory notification
TYPE OF RESIDENCE OF NOTIFIED TB CASES, FRANCE, 2017

<table>
<thead>
<tr>
<th>Type de residence</th>
<th>N</th>
<th>%</th>
</tr>
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<tbody>
<tr>
<td>Congregate settings</td>
<td>857</td>
<td>19.8%*</td>
</tr>
<tr>
<td>Sheltered housing</td>
<td>436</td>
<td>10.1%</td>
</tr>
<tr>
<td>Nursing home for elderly</td>
<td>49</td>
<td>1.1%</td>
</tr>
<tr>
<td>Prison</td>
<td>67</td>
<td>1.5%</td>
</tr>
<tr>
<td>Other</td>
<td>258</td>
<td>6.0%</td>
</tr>
<tr>
<td>No information available</td>
<td>47</td>
<td>1.1%</td>
</tr>
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**Homeless persons**

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<table>
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<tbody>
<tr>
<td>Number of cases</td>
<td>313</td>
</tr>
<tr>
<td>Percentage</td>
<td>7.3% **</td>
</tr>
<tr>
<td>Rate (/100 000)</td>
<td>218.9</td>
</tr>
</tbody>
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* Among cases with known information (857 / 4334)
** Among cases with known information (313 / 4262)

Source: Santé publique France, mandatory notification, INSEE (population)
<table>
<thead>
<tr>
<th>Sex ratio</th>
<th>183 males for 100 female (64% male)</th>
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<tbody>
<tr>
<td><strong>Age (years)</strong></td>
<td>%</td>
</tr>
<tr>
<td>Median</td>
<td>38 years</td>
</tr>
<tr>
<td>&lt;5</td>
<td>3,6 %</td>
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<tr>
<td>5 - 14</td>
<td>2,9 %</td>
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<tr>
<td>15 - 24</td>
<td>15,5 %</td>
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<tr>
<td>25 - 44</td>
<td>38,1 %</td>
</tr>
<tr>
<td>45 - 64</td>
<td>21,2 %</td>
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<tr>
<td>65 +</td>
<td>18,7 %</td>
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<tr>
<td><strong>Place of birth</strong></td>
<td></td>
</tr>
<tr>
<td>France (n=1736)</td>
<td>37 %</td>
</tr>
<tr>
<td>Foreign (n=2984)</td>
<td>63 %</td>
</tr>
</tbody>
</table>

Source: Santé publique France, mandatory notification
TUBERCULOSIS CASES NOTIFIED (%) BY AGE GROUP, FRANCE, 2017

Source: Santé publique France, mandatory notification
TUBERCULOSIS NOTIFIED CASES BY AGE GROUP AND SEX
FRANCE, 2017

Source: Santé publique France, mandatory notification
TUBERCULOSIS NOTIFICATION RATE BY AGE GROUP AND SEX, FRANCE, 2017

Notification rate 2017, France = 7.5 per 100 000

Source: Santé publique France, mandatory notification; INSEE, population
NUMBER OF TUBERCULOSIS CASES NOTIFIED BY PLACE OF BIRTH AND SEX, FRANCE, 2017

* Europe: excluding France, including Central and East Europe

Source: Santé publique France, mandatory notification
TUBERCULOSIS NOTIFICATION RATE BY PLACE OF BIRTH, FRANCE, 2017

Europe: excluding France, including Central and East Europe

Source: Santé publique France, mandatory notification; INSEE, population census 2015
TUBERCULOSIS NOTIFICATION RATE BY AGE GROUP AND PLACE OF BIRTH, FRANCE, 2017

Source: Santé publique France, mandatory notification; INSEE, population census 2015
CONTEXT OF DIAGNOSIS BY AGE GROUP, TUBERCULOSIS CASES NOTIFIED, FRANCE, 2017

Source: Santé publique France, mandatory notification