EPIDEMIOLOGY OF TUBERCULOSIS, FRANCE

2020 DATA

SANTÉ PUBLIQUE FRANCE – INFECTIOUS DISEASES DIVISION

Update: November 2021
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 laboratory for mycobacteria and anti-tuberculosis drug resistance)

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

Mortality data (INSERM, CépiDc): death certificates

* < 18 years old since 2021
**Tuberculosis disease**

**Confirmed.** Disease confirmed by culture (*Mycobacterium tuberculosis* complex) or by a DNA + for *M.tuberculosis* in an AFB positive sample

Or

**Probable.** Clinical and/or radiological signs compatible with tuberculosis and clinician’s decision to treat with a full anti-TB treatment

**Tuberculosis infection (in persons aged < 18 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. microti, M. canetti, M. pinnipedii, M. caprae*
Nombre de cas et taux de déclaration de tuberculose, France métropolitaine, 1972-2020
(source: DO tuberculose; données de population: ELP, Insee)
Nombre total de cas et taux de déclaration de tuberculose, France, 2000-2020
(source: DO tuberculose; données de population: ELP, Insee)

<table>
<thead>
<tr>
<th>Année de déclaration</th>
<th>Nombre total de cas</th>
<th>Taux (toutes formes)</th>
<th>Taux (formes pulmonaires)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>6714</td>
<td>11,1</td>
<td></td>
</tr>
<tr>
<td>2001</td>
<td>6465</td>
<td>10,6</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>6322</td>
<td>10,3</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>6098</td>
<td>9,9</td>
<td></td>
</tr>
<tr>
<td>2004</td>
<td>5578</td>
<td>9,0</td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>5368</td>
<td>8,8</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>5323</td>
<td>8,4</td>
<td></td>
</tr>
<tr>
<td>2007</td>
<td>5276</td>
<td>8,2</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>5187</td>
<td>8,0</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>4991</td>
<td>7,7</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>4975</td>
<td>7,5</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>4934</td>
<td>7,3</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>4827</td>
<td>7,1</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>4741</td>
<td>7,2</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>4794</td>
<td>7,5</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>5005</td>
<td>6,8</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>5092</td>
<td>6,0</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>5114</td>
<td>5,8</td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>4606</td>
<td>5,2</td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>4626</td>
<td>5,2</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>4606</td>
<td>5,2</td>
<td></td>
</tr>
</tbody>
</table>
Nombre de cas et taux de déclaration de tuberculose par région de résidence, France, 2020
(source: DO tuberculose; données de population: ELP, Insee)
TUBERCULOSIS CASES AND NOTIFICATION RATE BY REGION OF RESIDENCE, FRANCE, 2020

Map created on November 2021

Source: Santé publique France-Mandatory notification 2020-Insee Population estimates 2020
TUBERCULOSIS CASES NOTIFIED BY SITE OF DISEASE, FRANCE, 2020

Total des cas déclarés 4606

TB pulmonaire* 3140 (68%)

- TB pulmonaire * microscopie + **: 1439
- TB pulmonaire * microscopie - ou inconnue et culture +***: 774
- TB pulmonaire * autres: 927

TB exclusivement extra pulmonaire 1466 (32%)

- Avec localisation pleurale ou ganglionnaire intra thoracique: 601
- TB exclusivement extra pulmonaire autre: 865

Localisation non renseignée 0

135 cas de méningite TB associée ou non à d’autres localisations

* with or without extra pulmonary localisation
** respiratory specimen
*** Source: Santé publique France, mandatory notification
## TYPE OF RESIDENCE OF NOTIFIED TB CASES, FRANCE, 2020

<table>
<thead>
<tr>
<th>Type of residence</th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Congregate settings</strong></td>
<td>666</td>
<td>17,0% *</td>
</tr>
<tr>
<td>Sheltered housing</td>
<td>397</td>
<td>10,2%</td>
</tr>
<tr>
<td>Nursing home for elderly</td>
<td>28</td>
<td>0,7%</td>
</tr>
<tr>
<td>Prison</td>
<td>39</td>
<td>1,0%</td>
</tr>
<tr>
<td>Other</td>
<td>183</td>
<td>4,7%</td>
</tr>
<tr>
<td>No information available</td>
<td>19</td>
<td>0,5%</td>
</tr>
</tbody>
</table>

### Homeless persons

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cases</td>
<td>243</td>
</tr>
<tr>
<td>Percentage</td>
<td>6,1% **</td>
</tr>
<tr>
<td>Rate (/100 000)</td>
<td>170</td>
</tr>
</tbody>
</table>

* Among cases with known information (666/3909); ** Among cases with known information (243/3970)

Source: Santé publique France, mandatory notification, Population data for the homeless: Fondation Abbé Pierre
### Sex ratio

64% males

[2966 male and 1640 female]

### Age (years)

<table>
<thead>
<tr>
<th>Age (years)</th>
<th>Median (y.o.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;5</td>
<td>1.9%</td>
</tr>
<tr>
<td>5 - 14</td>
<td>2.3%</td>
</tr>
<tr>
<td>15 - 24</td>
<td>18.5%</td>
</tr>
<tr>
<td>25 - 44</td>
<td>39.9%</td>
</tr>
<tr>
<td>45 - 64</td>
<td>20.3%</td>
</tr>
<tr>
<td>65 +</td>
<td>17.0%</td>
</tr>
</tbody>
</table>

### Place of birth*

<table>
<thead>
<tr>
<th>Place of birth</th>
<th>France ((n=1377))</th>
<th>Foreign-born ((n=2719))</th>
</tr>
</thead>
<tbody>
<tr>
<td>France</td>
<td>34 %</td>
<td>66 %</td>
</tr>
</tbody>
</table>

* 511 cases with no available information on country of birth

*Source: Santé publique France, Mandatory notification*
Taux de déclaration de tuberculose selon le groupe d’âge et le sexe, France, 2020
(source: DO tuberculose; données de population: ELP, Insee)
* Europe : excluding France, including Central and Eastern Europe

Source: Santé publique France, mandatory notification
Taux de déclaration de tuberculose par lieu de naissance, France, 2020
(source: DO tuberculose, données de population Insee 2017)

Région de naissance

<table>
<thead>
<tr>
<th>Région de naissance</th>
<th>Taux de déclaration pour 100 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afrique sub Saharienne (n=1302)</td>
<td>110,2</td>
</tr>
<tr>
<td>Asie (n=406)</td>
<td>55,1</td>
</tr>
<tr>
<td>Amériques, Océanie (n=113)</td>
<td>25,3</td>
</tr>
<tr>
<td>Afrique du Nord (n=596)</td>
<td>21,2</td>
</tr>
<tr>
<td>Europe (n=301)</td>
<td>10,4</td>
</tr>
<tr>
<td>France (n=1377)</td>
<td>2,4</td>
</tr>
<tr>
<td>Total nés à l'étranger (2718)</td>
<td>33,6</td>
</tr>
</tbody>
</table>
Taux de déclaration de tuberculose par groupe d’âge et lieu de naissance, France, 2020
(source: DO tuberculose, données de population Insee 2017)
CONTEXT OF DIAGNOSIS BY AGE GROUP, TUBERCULOSIS CASES NOTIFIED, FRANCE, 2020

Proportion of tuberculosis cases according to the context of diagnosis, France, 2020
(source: TB mandatory notification)

Age group
< 4 Y.o. 5-9 10-14 15-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80+ Total
Proportion of cases
0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
Other Screening Contact investigation Spontaneous use of care