

# **EPIDEMIOLOGY OF TUBERCULOSIS, FRANCE**

**2018 DATA**

**SANTÉ PUBLIQUE FRANCE – INFECTIOUS  
DISEASES DIVISION**

*Update: November 2019.*

# NATIONAL TUBERCULOSIS SURVEILLANCE IN FRANCE: DATA SOURCES



## **Mandatory notification (Santé publique France)**

- |                                                          |            |
|----------------------------------------------------------|------------|
| • Tuberculosis disease                                   | since 1964 |
| • Latent tuberculosis infection (children < 15 year 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).

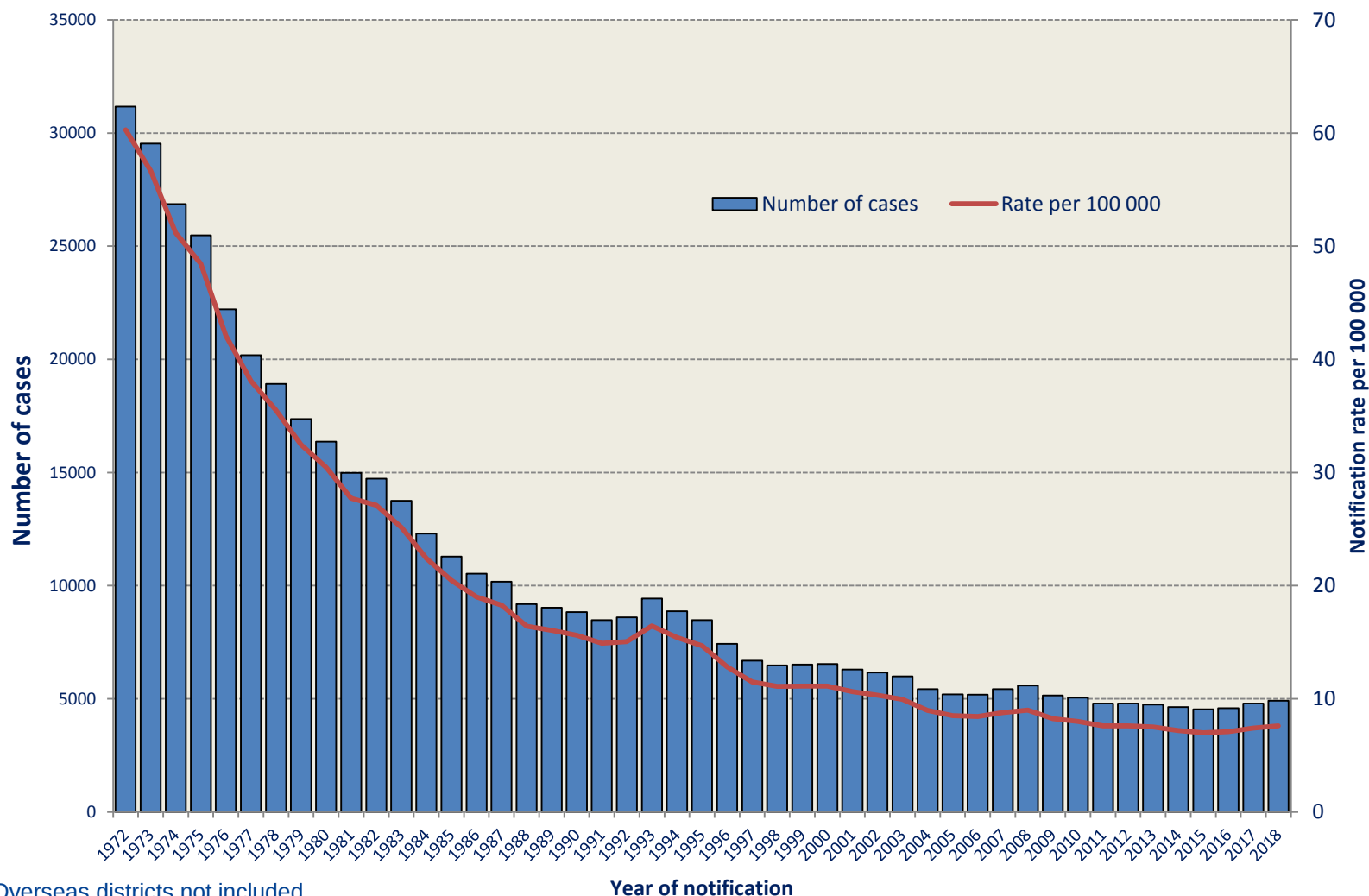
## Mycobacteria from tuberculosis complex :

*M. tuberculosis*, *M. bovis* , *M. africanum*

*M. microti*, *M. canetti*, *M. pinnipedii*, *M. caprae*

# TUBERCULOSIS MORBIDITY , FRANCE\*\*,1972-2018

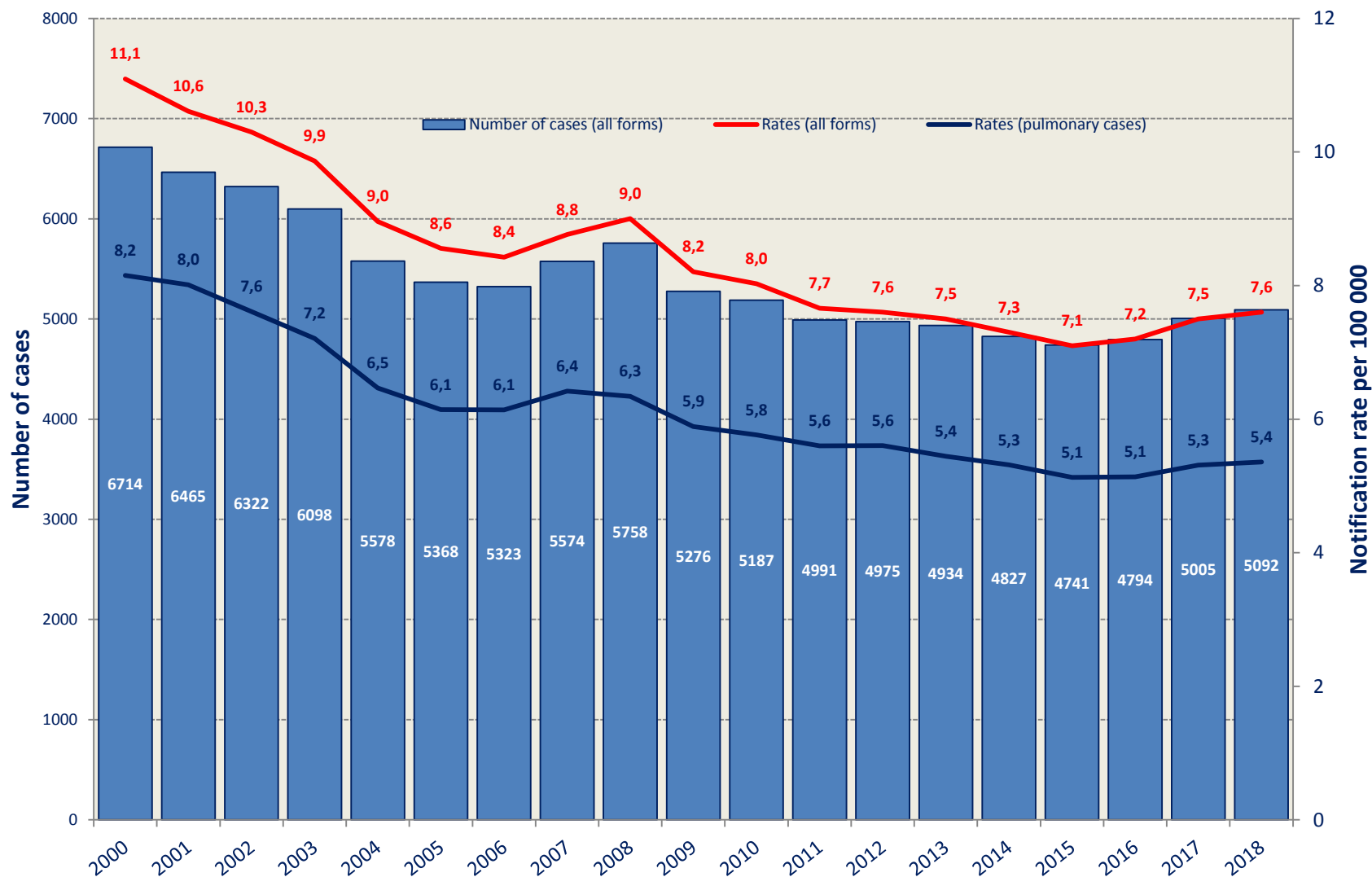
Number of tuberculosis cases and notification rate, France\*\*, 1972-2018



\*\* Overseas districts not included

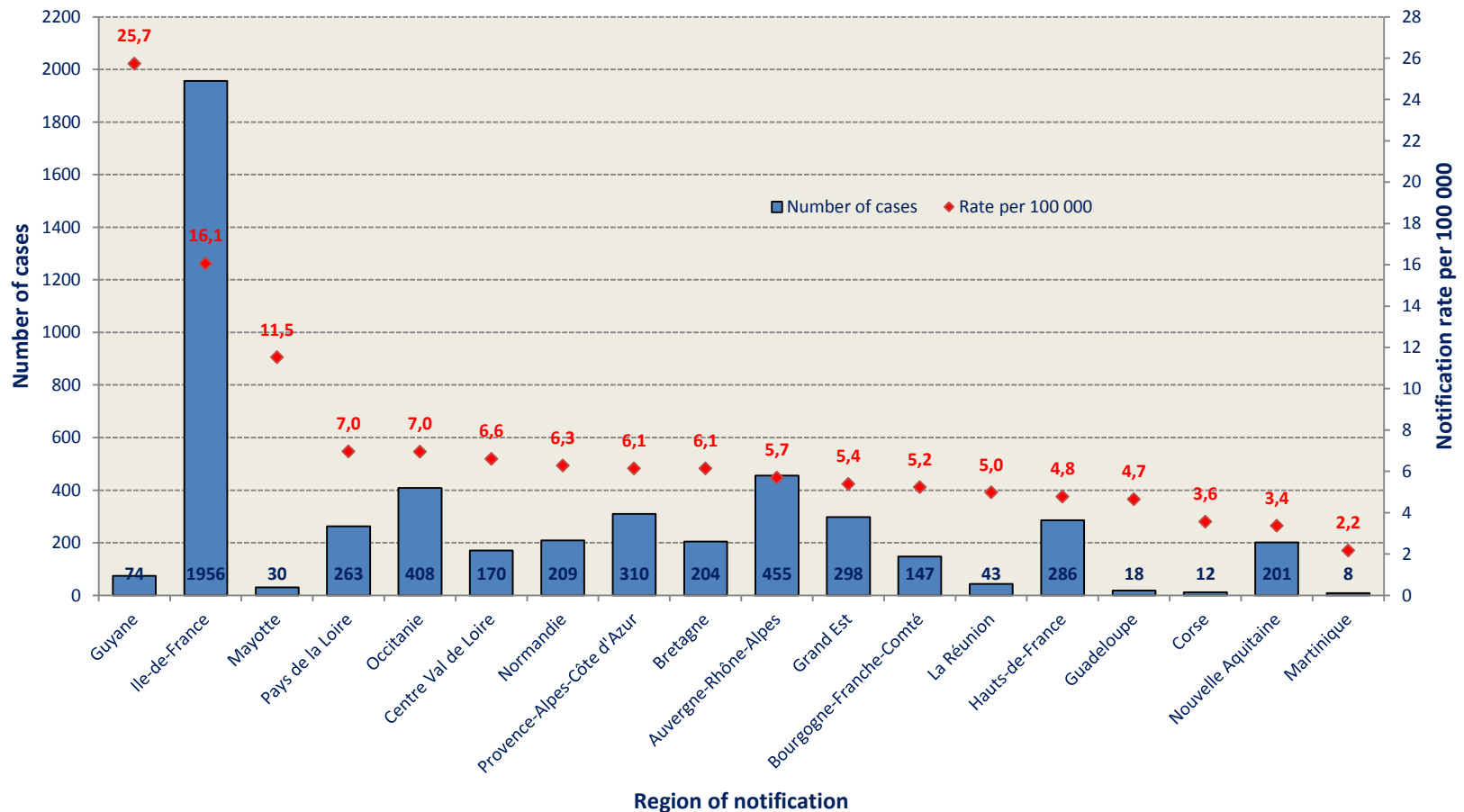
Sources: Santé publique France (mandatory notification), INSERM (CépiDc), INSEE (population estimate)

# NUMBER OF TUBERCULOSIS CASES AND NOTIFICATION RATE BY CLINICAL FORM, FRANCE, 2000-2018

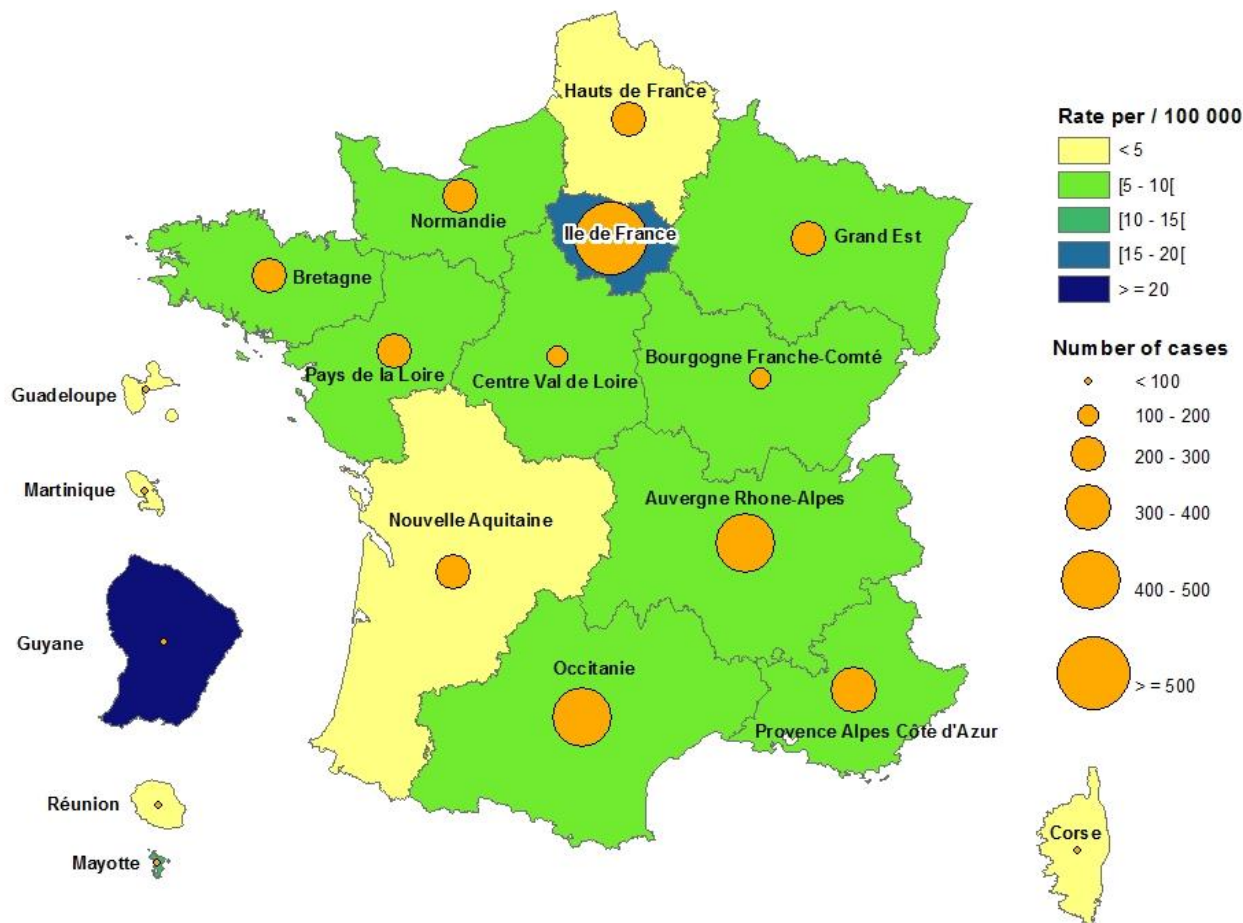


# NUMBER OF TUBERCULOSIS CASES AND NOTIFICATION RATE BY REGION, FRANCE, 2018

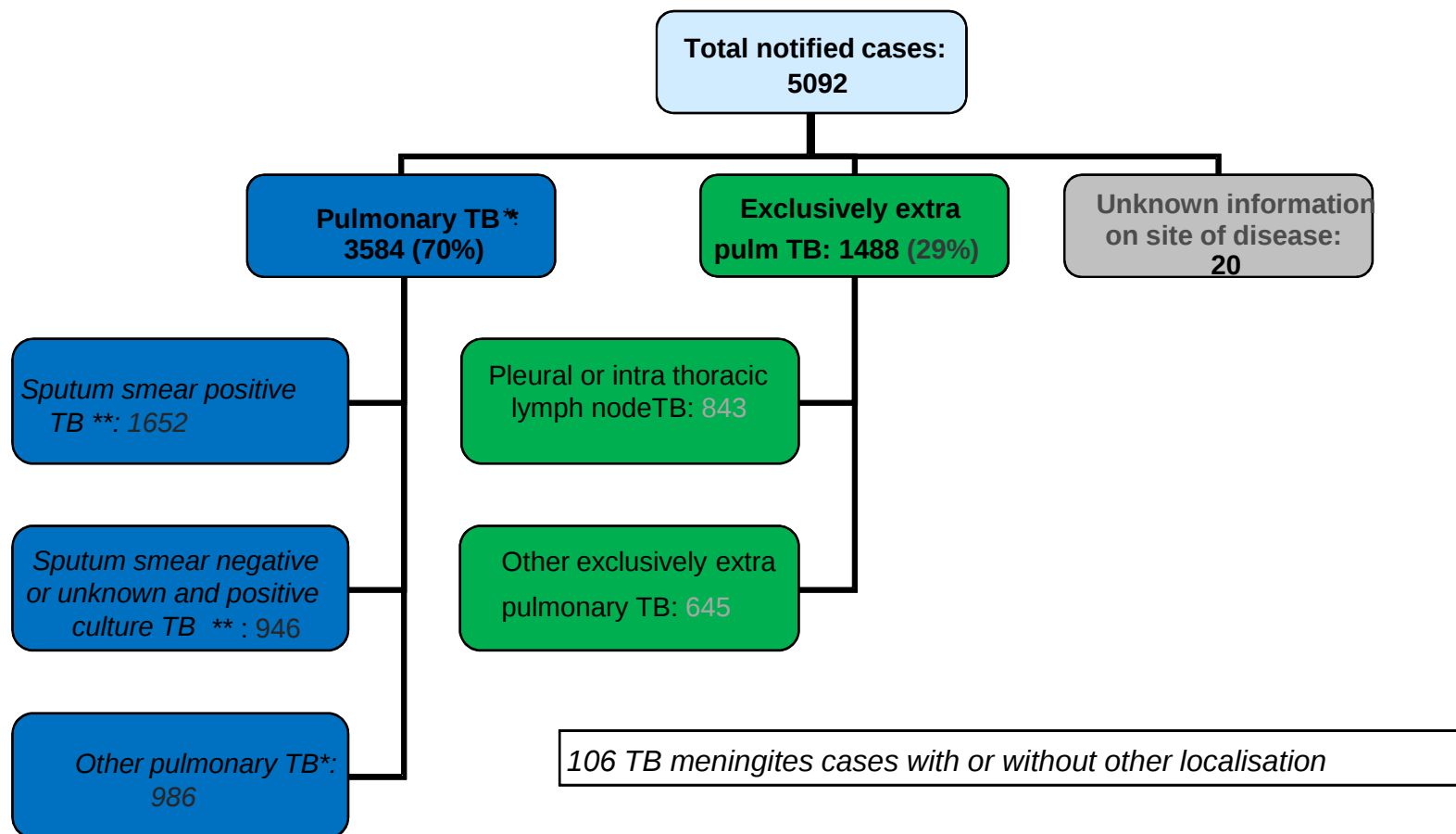
Number of tuberculosis cases and notification rate per region, France, 2018



# TUBERCULOSIS CASES AND NOTIFICATION RATE BY REGION\*, FRANCE, 2018



# TUBERCULOSIS CASES NOTIFIED BY SITE OF DISEASE, FRANCE, 2018



\* with or without extra pulmonary localisation

\*\* respiratory specimen

Source: Santé publique France, mandatory notification

# TYPE OF RESIDENCE OF NOTIFIED TB CASES, FRANCE, 2018

| Type of residence               | N   | %       |
|---------------------------------|-----|---------|
| <b>Congregate settings</b>      | 946 | 21.8% * |
| <i>Sheltered housing</i>        | 525 | 12.1%   |
| <i>Nursing home for elderly</i> | 55  | 1.3%    |
| <i>Prison</i>                   | 54  | 1.2%    |
| <i>Other</i>                    | 252 | 5.8%    |
| <i>No information available</i> | 60  | 1.4%    |

|                         |         |
|-------------------------|---------|
| <b>Homeless persons</b> |         |
| Number of cases         | 356     |
| Percentage              | 8.3% ** |
| Rate (/100 000)         | 249.0   |

\* Among cases with known information (857 / 4334)

\*\* Among cases with known information (313 / 4262)

Source: Santé publique France, mandatory notification, INSEE (population)

# TUBERCULOSIS CASES NOTIFIED BY SEX, AGE GROUP AND BIRTHPLACE, FRANCE, 2018

## Sex ratio

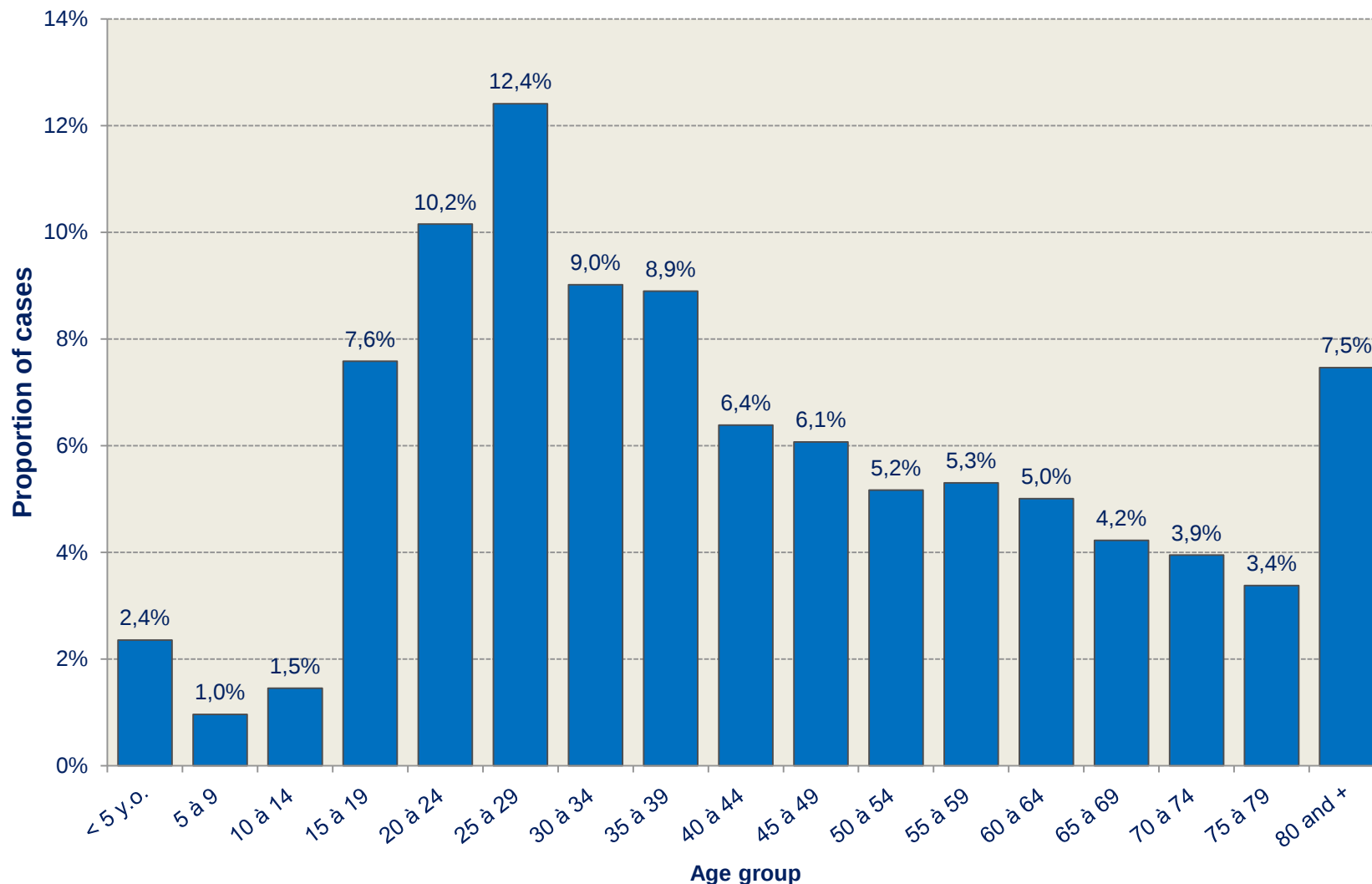
202 males for 100 female (67% male)

| Age (years) | %        |
|-------------|----------|
| Median      | 38 years |
| <5          | 2.4 %    |
| 5 - 14      | 2.4 %    |
| 15 - 24     | 17.7 %   |
| 25 - 44     | 36.7 %   |
| 45 - 64     | 21.5 %   |
| 65 +        | 19.0 %   |

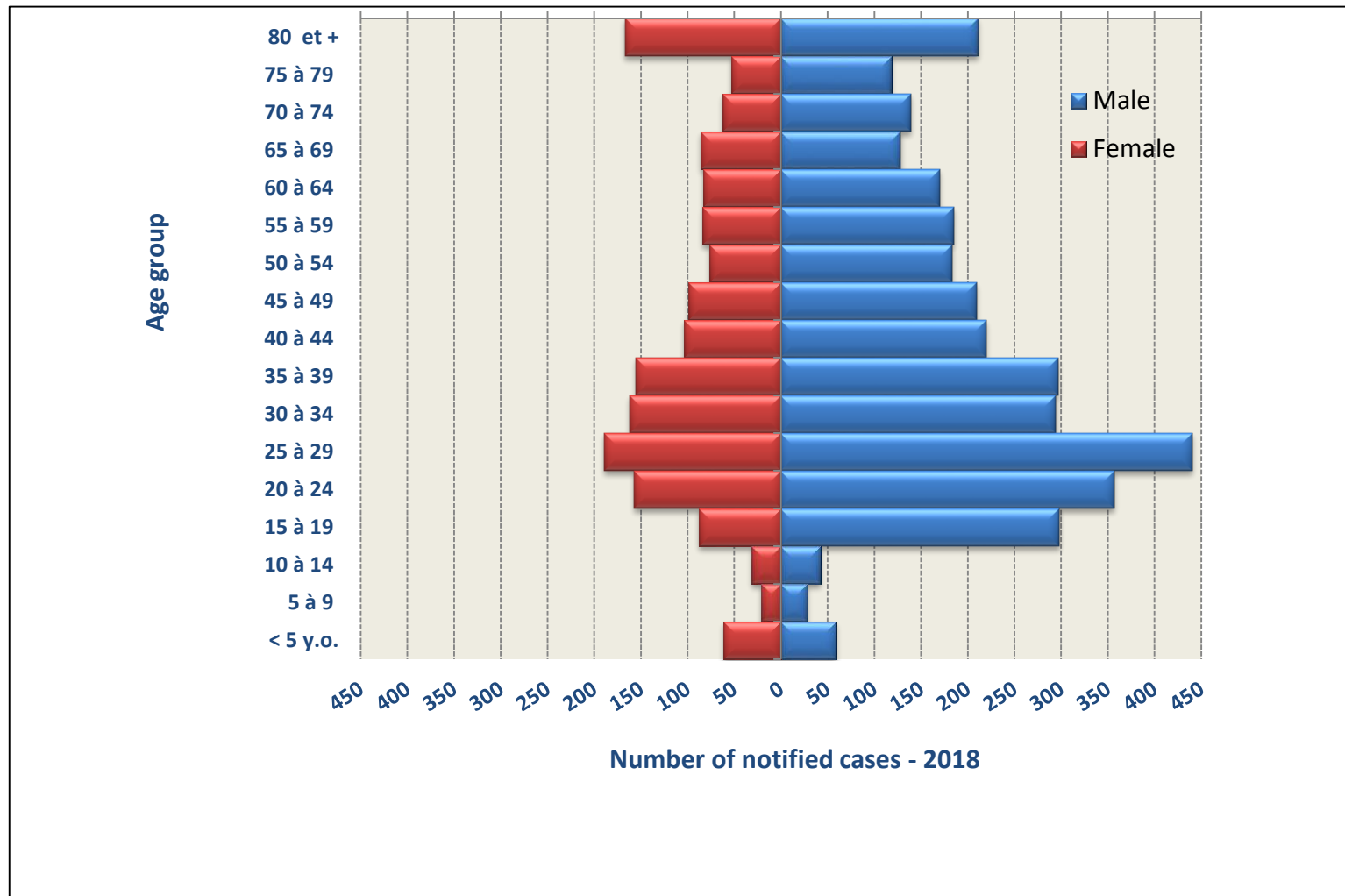
| Place of birth            |      |
|---------------------------|------|
| France ( <i>n</i> =1636)  | 34 % |
| Foreign ( <i>n</i> =3151) | 66 % |

Source: Santé publique France, mandatory notification

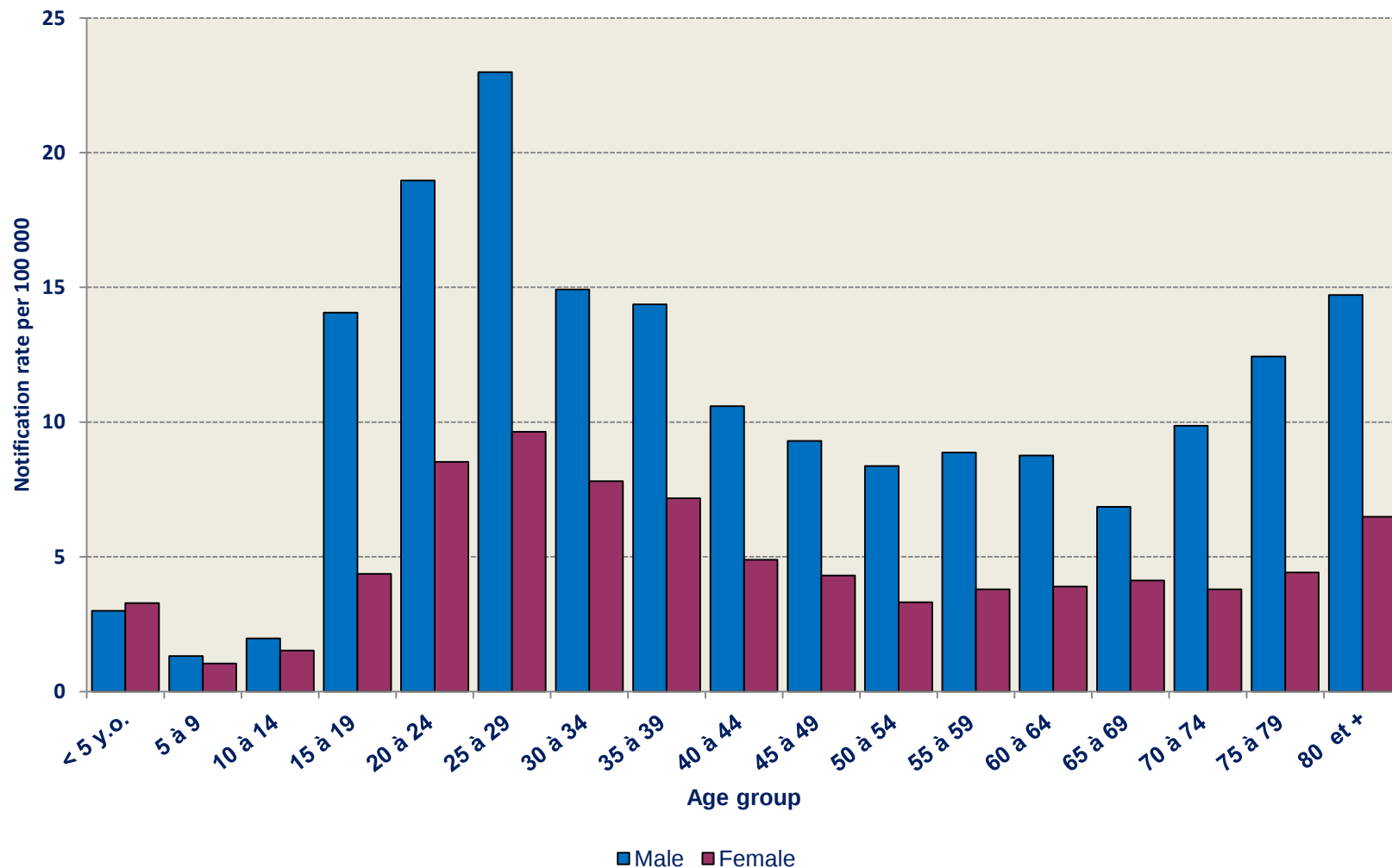
# TUBERCULOSIS CASES NOTIFIED (%) BY AGE GROUP, FRANCE, 2018



# TUBERCULOSIS NOTIFIED CASES BY AGE GROUP AND SEX FRANCE , 2018

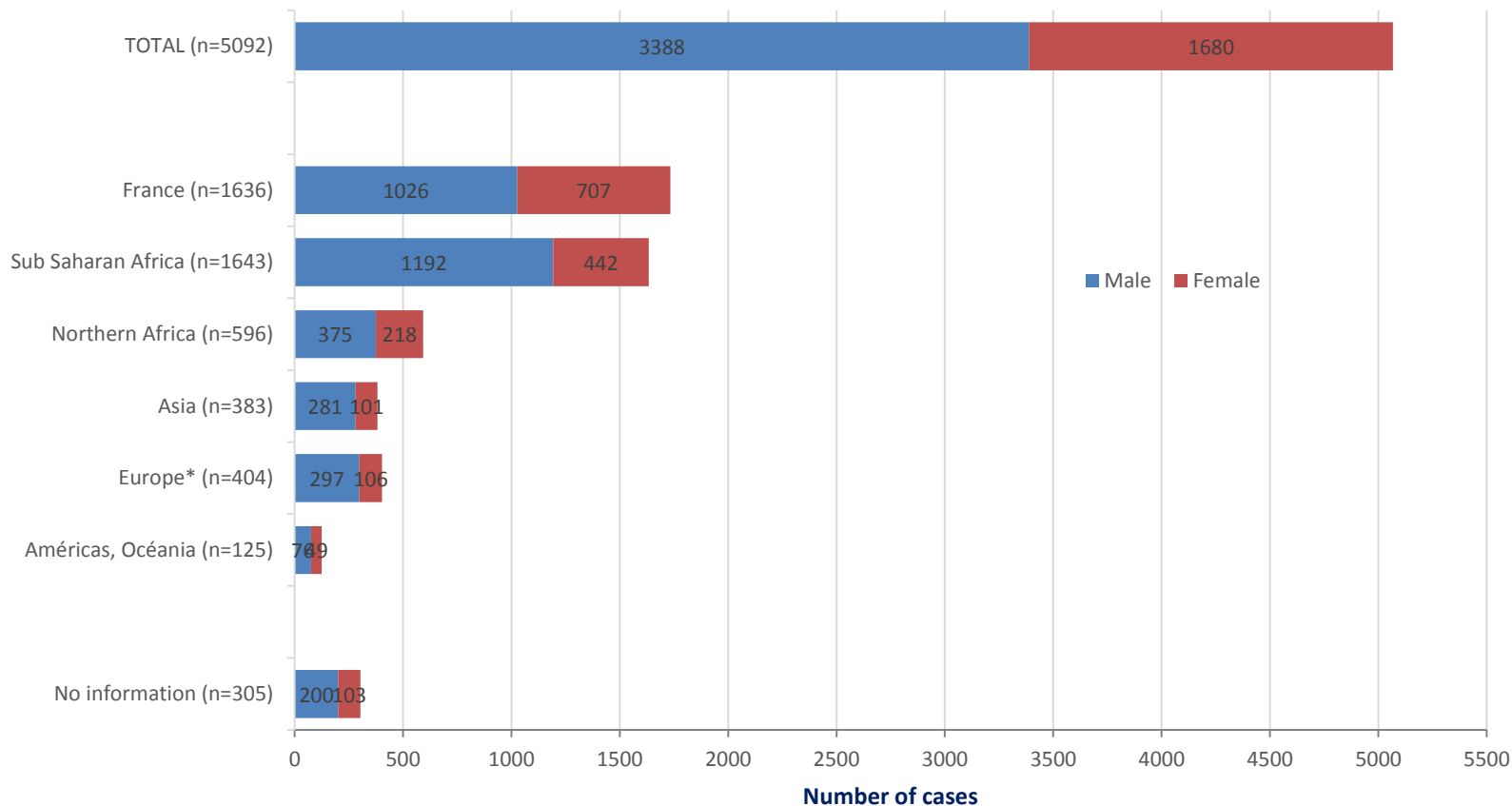


# TUBERCULOSIS NOTIFICATION RATE BY AGE GROUP AND SEX, FRANCE, 2018



**Notification rate 2018, France = 7.6 per 100 000**

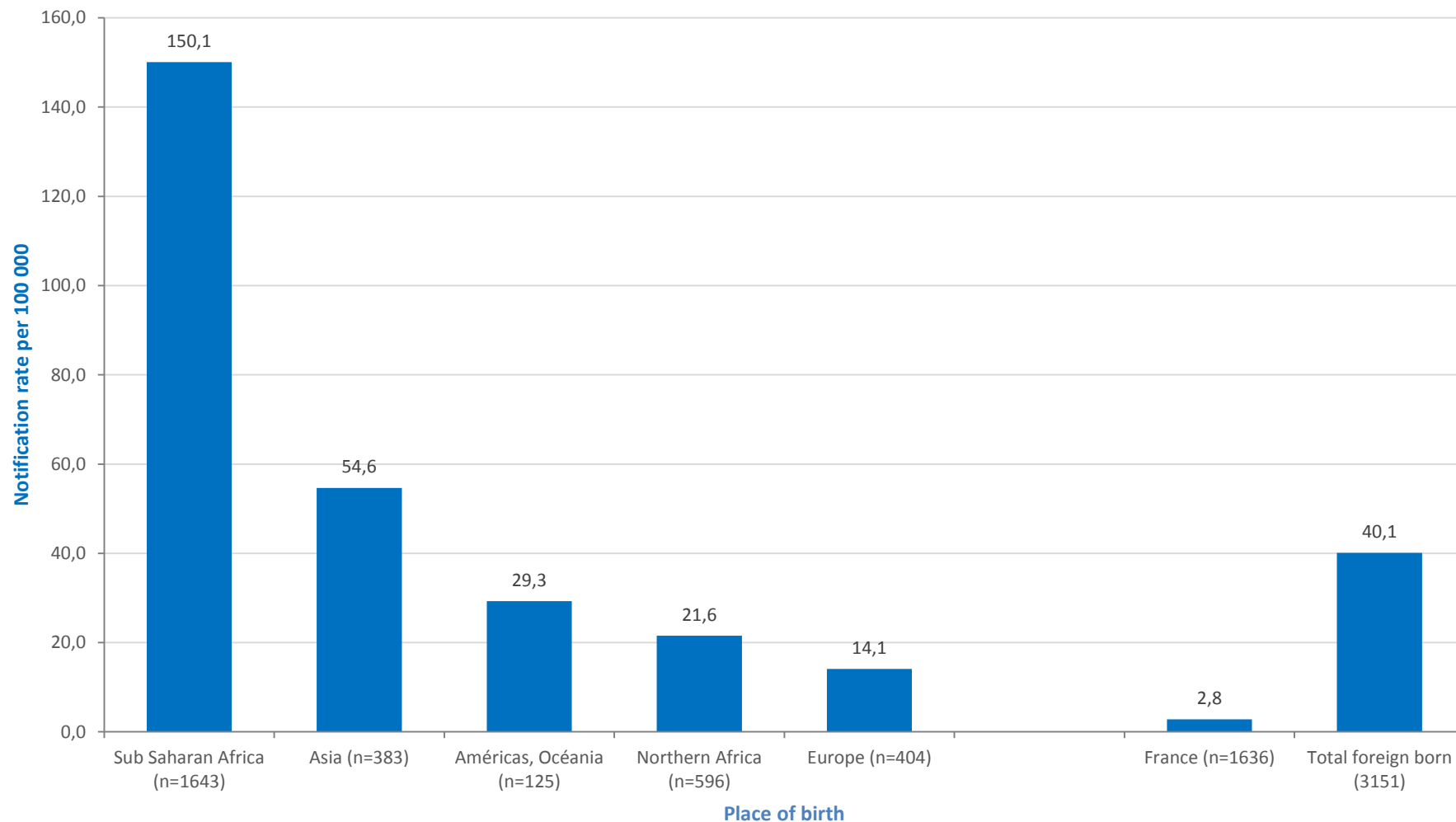
# NUMBER OF TUBERCULOSIS CASES NOTIFIED BY PLACE OF BIRTH AND SEX, FRANCE, 2018



\* Europe : excluding France, including Central and East Europe

Source: Santé publique France, mandatory notification

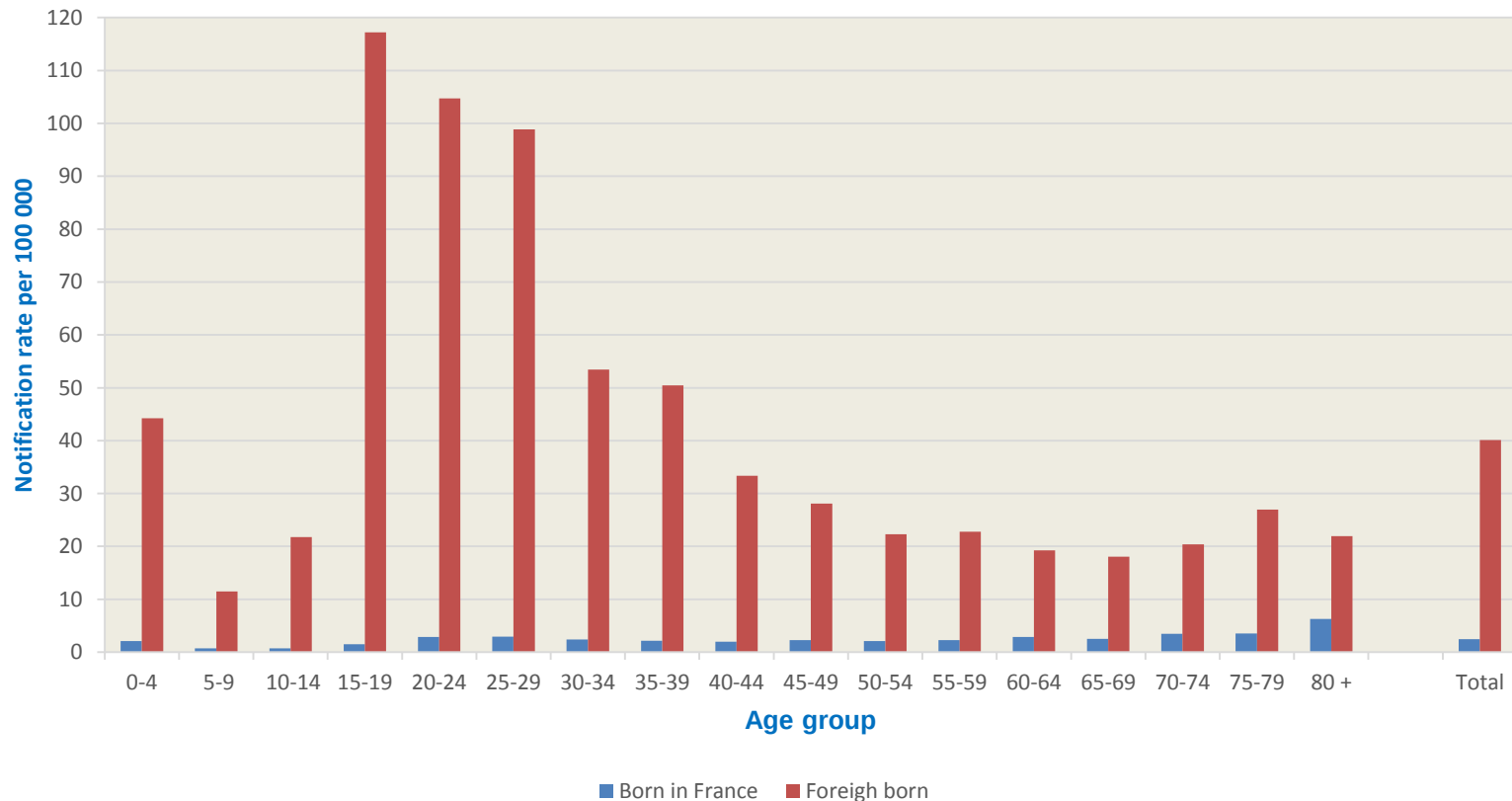
# TUBERCULOSIS NOTIFICATION RATE BY PLACE OF BIRTH, FRANCE, 2018



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, 2018



Source: Santé publique France, mandatory notification; INSEE, population census 2015

# CONTEXT OF DIAGNOSIS BY AGE GROUP, TUBERCULOSIS CASES NOTIFIED, FRANCE, 2018

