

Source: Stop TB Partnership.

# Incidence rate of TB, any form, 2020

(rate per 100,000 population)

#### **Philippines:**

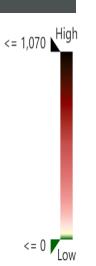
- Incidence: 539 per 100,000 population
- Among the top 20 high TB burden countries in the world
- 4<sup>th</sup> in terms of contribution to new TB cases in 2020:

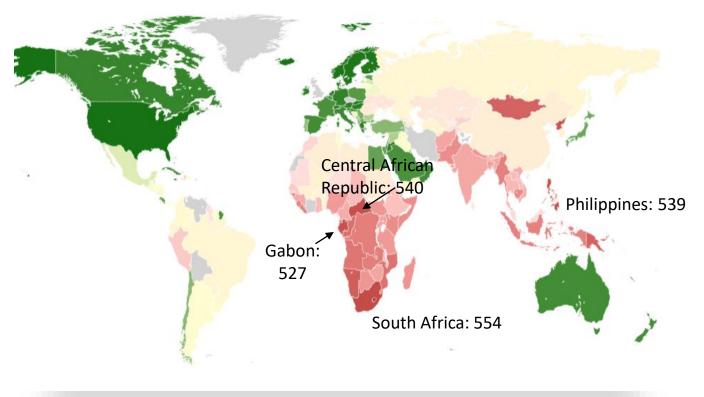
• India: 26%

• China: 8.5%

Indonesia: 8.4%

Philippines: 6.0%





Source: Stop TB Partnership. Total number of people per 100,000 population that developed any form of TB.

Available at: <a href="https://www.stoptb.org/static">https://www.stoptb.org/static</a> pages/MappingTool Main.html

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- 5x the global average of 106,000 per 100,000 population
- 12<sup>th</sup> of the top 20 high MDR-TB burden countries



6,279 lab-confirmed MDR/RR TB

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**73,000** children

New TB cases out of 591.000



of whom were

### **Year 2020**

**Philippines** 



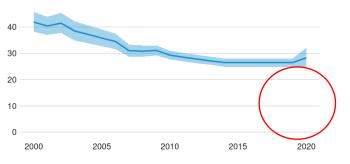
31,490

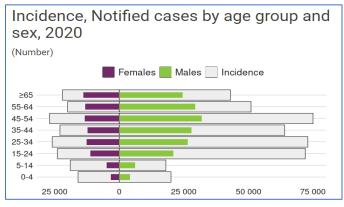
Deaths from TB

8<sup>th</sup> leading cause of death (2019)

#### HIV-negative TB mortality

(Rate per 100 000 population per year)

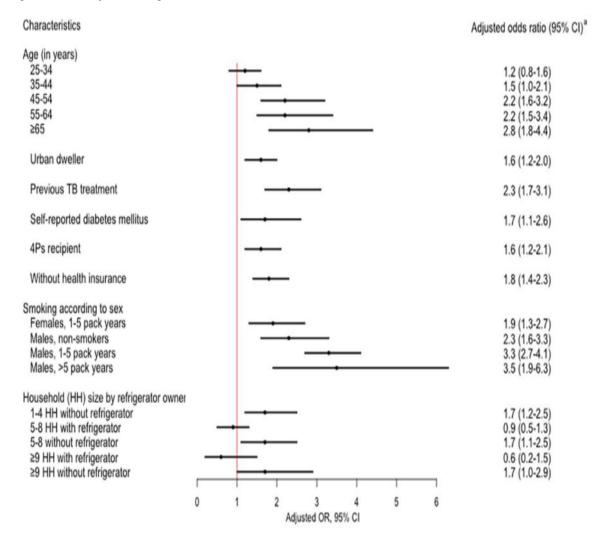




Sources of graphs: WHO Global TB Report 2021

#### **Risk Factors for TB, 2016 NTPS**

(N=46,689)



Source: Lansang MAD, Alejandria MM, Law I, Juban NR, Amarillo MLE, Sison OT, et al. (2021) High TB burden and low notification rates in the Philippines: The 2016 national TB prevalence survey. PLoS ONE 16(6): e0252240. https://doi.org/10.1371/journal.pone.0252240

#### **Other Risk Factors for TB**

- Close contacts of patients with TB
- Immunocompromised patients
- Patients with diabetes mellitus
- Heavy alcohol consumption
- Children < 5 years with + TB test</li>
- Groups with high rates of TB transmission, e.g., people who use drugs, persons living with HIV, homeless persons
- Closed facilities/institutions with high risk: correctional facilities, hospitals
- Healthcare workers

#### TB Infection → TB Disease

### Burden of Latent TB Infection, Philippines

#### Assumptions:

- Estimate: ¼ of the world population → 1.7 billion
- 5 10% will develop active TB over their lifetime
- Philippines population (2020): ~110 million

#### Then:

~27.5 million

latent TB infections

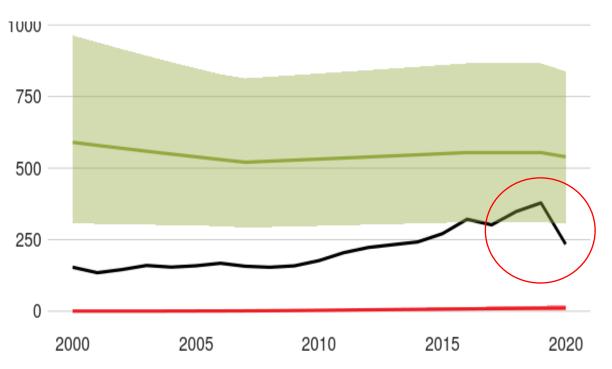


1.375 – 2.75 million

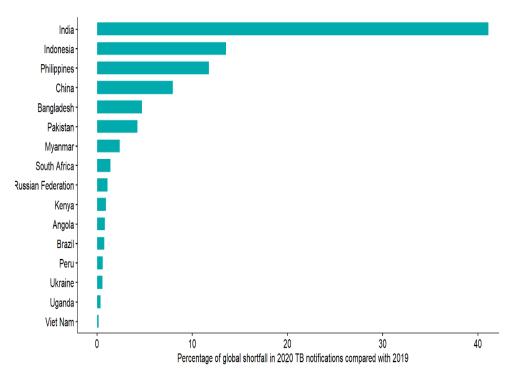
will develop active TB over their lifetime

### Effects of COVID-19 on TB Elimination Efforts

Incidence, New and relapse TB cases notified, HIV-positive TB incidence (Rate per 100,000 population per year)



The 16 countries with the largest contributions to the global shortfall in TB notifications, 2020 vs 2019

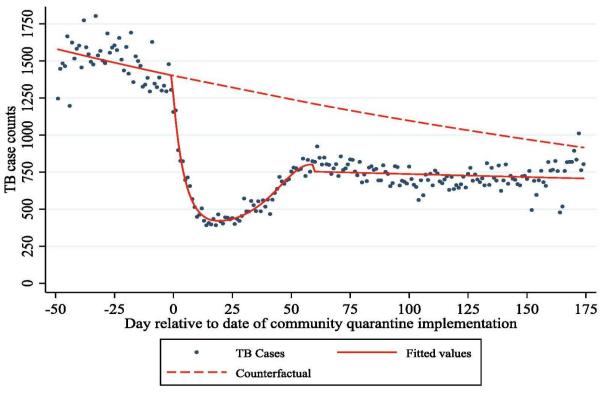


2020: 37% drop in TB notifications, Philippines

Source: WHO Global TB Report 2021

# Impact of the COVID-19 pandemic on TB case notifications and mortality, Philippines, 2020

Source: Crowder R et al. *J of Clinical TB and Other MycobacterialDiseases*. 2021; 25:100282 <a href="https://www.sciencedirect.com/science/article/pii/S2405579421000711#:~:text=https%3A//doi.org/10.1016/j.jctube.2021.100282">https://www.sciencedirect.com/science/article/pii/S2405579421000711#:~:text=https%3A//doi.org/10.1016/j.jctube.2021.100282</a>



 Decline of 44.6% (95% CI: 38.3 – 50.1%) TB case notifications during the stable post-quarantine period



 Assuming a 12-month disruption in TB case reporting:

~56.4% increase in TB-related deaths

Daily DS-TB case notifications in 2,986 DS-TB treatment facilities, Philippines, Jan – Dec 2020