BUILDING COUNTRY-LEVEL CAPACITY TO ESTIMATE THE BURDEN OF COVID-19

3rd WG meeting
25\textsuperscript{th} January 2022

Sara M. Pires
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1st Working Group meeting

19 February 2020

11 March 2020
COVID-10 declared as a pandemic by WHO
European Burden of Disease Network

WG1 – NCDs and Injuries
WG2 – Infectious Diseases
WG3 – Risk Factors
WG4 – Methods
WG5 – Knowledge Translation

Read more ...
COVID-19

- Infectious disease by SARS-CoV-2
- Declared as a pandemic by WHO in March 2020
- High public health impact globally
COVID-19

- Perfect practical case to contribute to all aims of burden-eu
  - Research
    - Disease model, health outcomes
    - Data requirements
    - Computation
  - Building capacity
    - Burden of disease calculation
    - Knowledge translation
19 February 2020

11 March 2020
COVID-10 declared as a pandemic by WHO

23 Oct 2020
Protocol to estimate burden of COVID-10

31 March 2021
COVID-19 Task Force

23 Oct 2020
COVID-19 declared as a pandemic by WHO

31 March 2021
COVID-19 Task Force
Burden of COVID-19 Task Force

The European Burden of Disease Network established the Burden of COVID-19 Task Force, as a sub-group of WG2 Infectious Diseases. The TF welcomes members who are conducting or interested in launching national studies to estimate the burden of disease of COVID-19.

Its aims are to:

- Share experiences in national burden of COVID-19 studies
- Support each other with calculations, model assumptions, data gaps
- Harmonize methodologies and align strategies for communicating results
- Discuss research projects and upcoming evidence on long-COVID

The TF meets approximately every six weeks. We select a different topic for each meeting, and focus mostly on technical discussions. We also have the opportunity to arrange ad-hoc meetings and discussions as needed/requested by members of the TF, and to use the burden-eu discussion forum.

You can find the minutes of our meetings on the Google Drive.

If you are interested in joining, contact Sara Pires.

Other resources on COVID-19 disease burden are available on this page.
Burden of COVID-19 Task Force

- Provide guidance for data requirements, methodology and communicating results
Burden of COVID-19 Task Force

- **Open** to all network members conducting or interested in implementing national studies.
- Regular **group meetings**
- **Ad-hoc meetings** with countries
- Long-COVID meetings
- Online **discussion forum**
- **Several studies launched**
  - harmonized approaches
  - comparable estimates
## BoD COVID-19 Studies

<table>
<thead>
<tr>
<th>Country and period of analysis</th>
<th>Estimation of total symptomatic infected</th>
<th>Life expectancy table</th>
<th>Mortality due to COVID-19</th>
<th>Long-COVID included</th>
<th>DALY/100,000</th>
<th>% YLD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Netherlands [2020]</td>
<td>Yes (evidence synthesis)*</td>
<td>GBD-2019</td>
<td>Statistics Netherlands registered (confirmed+suspected)</td>
<td>No</td>
<td>1570 (1540-1600)</td>
<td>1%</td>
</tr>
<tr>
<td>Scotland [2020]</td>
<td>Yes (SEIR modelling)</td>
<td>GBD-2019</td>
<td>Death registry (confirmed only or confirmed+suspected)</td>
<td>Yes, limited</td>
<td>1770-1980</td>
<td>2%</td>
</tr>
<tr>
<td>Germany [2020]</td>
<td>No (notified positives only)</td>
<td>Germany 2016/2018</td>
<td>notifiable cases of COVID-19</td>
<td>No</td>
<td>368</td>
<td>0.7%</td>
</tr>
<tr>
<td>Malta [7 Mar 2020-31 Mar 2021]</td>
<td>Yes (notified positives adjusted for underascertainment)</td>
<td>GBD-2019</td>
<td>Daily COVID-19 bulletins issued by Malta Ministry of Health</td>
<td>Yes, limited</td>
<td>1086b</td>
<td>5%</td>
</tr>
<tr>
<td>Denmark [28 Feb 2020-28 Feb 2021]</td>
<td>Yes (based on survey of the population)</td>
<td>GBD-2019</td>
<td>Death registry</td>
<td>No</td>
<td>520</td>
<td>1.6%</td>
</tr>
</tbody>
</table>
Burden of COVID-19 Task Force

- Public webinars, attended by over 100 participants
- Website collects and continuously posts all published articles related to the burden of COVID
What’s next?
- Continue supporting country studies
- Expand analyses
  - Effect of vaccination programmes?
  - Burden of long-COVID-19?
  - International comparison
Burden of COVID-19 Task Force

- Join us: smpi@food.dtu.dk; info@burden-eu.net

- What to expect:
  - Share experiences in national burden of COVID-19 studies
  - Support with calculations, model assumptions, data gaps
  - Harmonize methodologies and align strategies for communicating results
  - Discuss research projects and upcoming evidence on long-COVID