



4th Working Group Meeting

**Tallinn, Estonia,
14-15 September 2023**

Disability-adjusted life years (DALYs) due to COVID-19 in Federation of Bosnia and Herzegovina, 2020

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Background

During the COVID-19 pandemic in Federation of Bosnia and Herzegovina (FB&H) in 2020, 72,188 cases of COVID-19 and a total of 2,339 deaths were recorded. Our aim was to estimate disability-adjusted life years (DALYs) due to COVID-19 in FB&H, during 2020. DALYs combine the impact of morbidity and mortality and can enable comparable assessments of health harms due to COVID-19 in our country.

Methods

We calculated DALYs based on the Burden-EU consensus model, including YLL, acute YLD and preliminary estimations for YLD due to Long COVID, based on approaches suggested by the Global Burden of Disease (GBD) Long COVID Collaborators. For YLL, we used the GBD 2019 reference life expectancy table. For acute YLD, the severity distribution was based on German data. For YLD due to Long COVID, we used an adapted version of the Long COVID Collaborators approach and results are still preliminary.

Results

During the year 2020, 39,511 years of life was lost by men, whereas women lost 19,910 years of life; the total YLL lost by men and women was 59,420. Estimates for total YLD by men was 407,9, whereas for women YLD 533,1 (estimates for Long COVID are preliminary), during the year 2020 initial. Our preliminary estimate DALY for the year 2020 in FB&H is therefore 60,361.

Conclusion

Essential health care has been interrupted because of measures during the first year of pandemic COVID-19 in FB&H. During 2020, men lost 1.5 more YLL in comparison to women in the Federations of BiH, and the Long COVID-19 results are preliminary. DALY for FB&H is similar value to many countries.

Key messages

- Preliminary estimate DALY for the year 2020 in Federation of Bosnia and Herzegovina is therefore 60,361.
- During 2020, men lost 1.5 more YLL in comparison to women in Federation of Bosnia and Herzegovina.