

# Introduction to the Global Burden of Disease

## Project Data and Tools

### Facilitator

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### Description

Governments, policy-makers, public health institutions and funders require information on the causes of disease and death in the population to target available resources towards effective, high-impact public health interventions and approaches to improve survival and prevent illness. The Global Burden of Disease (GBD)

([www.healthdata.org/gbd/about](http://www.healthdata.org/gbd/about)) project developed a framework and methodology for merging and assimilating, validating, analyzing and reporting health-related information on the burden of disease across countries and settings, to inform public health decision-making. GBD now provides the largest, most comprehensive estimates of risk factors, health, morbidity and mortality levels and trends globally.

In this course, students will be introduced to the methods and tools used in and developed by the GBD project, to prepare them to understand and interpret the research outputs of the project, and to utilize the datasets and tools available from this project to inform their own research.

The following topics will be addressed:

- Sources of input data in GBD estimates
- Metrics and indicators reported and used by GBD
- Estimation methodology
- Accessing and using GBD datasets and reports
- Accessing and using GBD data visualization tools
- Where to access dataset descriptions, tools and resources
- Strengths and limitations of GBD data and approach; considerations for analyses and interpretation
- Implications and impact of GBD on policy-making and resource allocation

## Objectives

By the end of this course, students will be able to:

- Describe the goals of the GBD project
- Understand the basic GBD estimation methodology, sources and content of GBD input data
- Describe where and how to access GBD data
- Describe where and how to access GBD results and data visualization tools
- Describe key strengths and limitations of the GBD estimation approaches

## Date

**11 October 2023, 14:00 – 16:00**

## Level

Basic course. Pre-knowledge of basic epidemiologic concepts and measures of disease frequency, risk and association required (basic course in epidemiology).

## Eligibility

This course is open to PhD students of the SSPH+ Inter-university Graduate Campus

## Course Structure

2 hour online course, in real-time, consisting of lecture and presentation, as well as interactive activities with course participants to introduce them to online resources and tools. Reading materials and links to resources will be provided in advance and for further reference.

Multiple choice quiz evaluating comprehension of course material.

Preliminary Work: 0-4 h; Contact time: 2 h; Wrap-Up Work: 0-4 h

## Location

Online course delivered via zoom

## Course Fees

SSPH+ PhD Students:                      0.- CHF

## Registration

<https://www.conftool.com/ssph-phd-courses2023>

## Deadline for registration

**11 September 2023**

This course is an SSPH+ IGC initiative to provide post-doctoral scientists at SSPH+ network institutions to teach.