

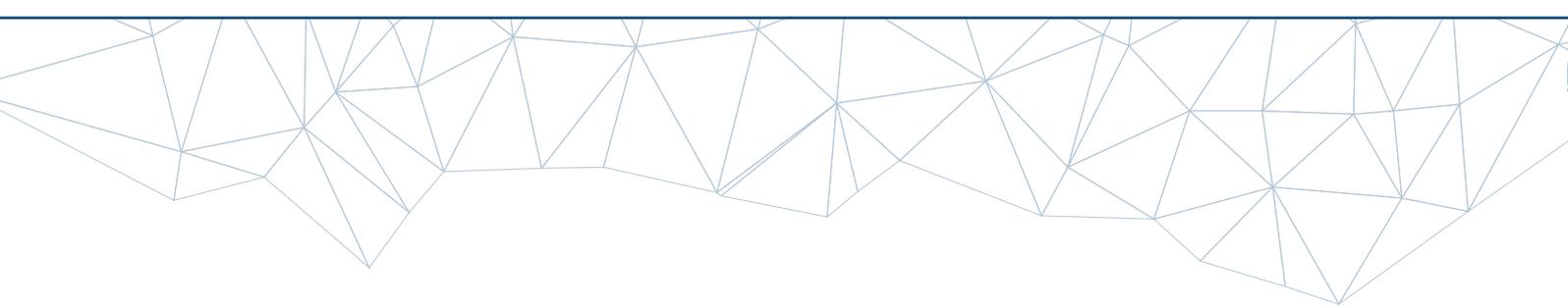


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DATA FOR  
HEALTH INITIATIVE

# CRVS data analysis and use



## Summary

The CRVS Data Analysis and Use course trains participants to effectively analyse and present CRVS data to improve its policy and planning value. Participants develop their skills through practical application using their own country's CRVS data.

## The challenge

CRVS data should be the primary source of routine mortality data in a country. These data can be used to monitor progress towards national and international health goals (eg the Sustainable Development Goals), to monitor trends in diseases and injuries, to evaluate health programs and policies, and to identify priority areas to improve population health.

However in many countries CRVS data are not used effectively to achieve these purposes. CRVS data may only be analysed in a very basic manner (eg simply reporting numbers of deaths) or even not analysed at all, and any data quality issues may not be acknowledged and/or adjusted for. Further, CRVS data may not be presented and disseminated effectively to inform policymakers.

It is of primary importance that staff responsible for analysing and reporting CRVS data have the requisite skills to most effectively analyse and present their country's data to provide evidence for health decision-making and policy and program development.

## Our approach

The CRVS Data Analysis and Use course trains participants to learn how to effectively analyse and present CRVS data. The course is comprised of sessions of interactive lectures and exercises covering a range of topics to explore the broad range of uses of CRVS data, including standard indicators, causes of death analyses, and advanced methods. Participants are also trained to identify quality issues with their data. The course also builds skills in presentation and dissemination of CRVS statistics to policymakers.

Following these sessions, there is a follow-up hands-on workshop to apply the learnings from the course to the country's CRVS data. Participants are guided during the workshop to produce a specific output, such as a short vital statistics report, that demonstrates the policy utility of CRVS data. Post-course consultation and follow-up is provided to assist participants in application of their skills in their day-to-day work.

The course is aimed at Ministry of Health, National Statistics Office, and/or National Registrar's Office staff involved in analysing, disseminating, or using vital statistics.

Each country's course is designed based on pre-training discussions with country partners to determine major health priorities, training needs, type and level of participants, including local experts as facilitators, and specific product outputs.

A Spanish language version of the course is also available.

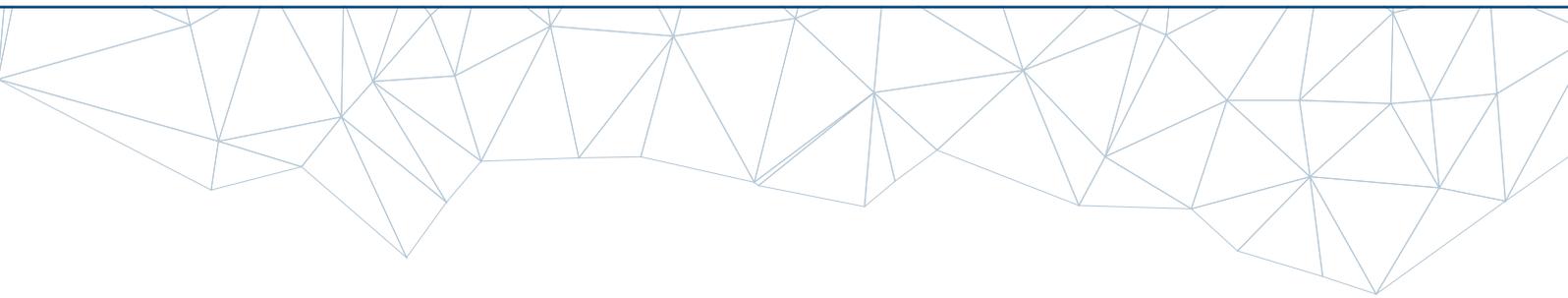
The CRVS Data Analysis and Use course is a collaboration between the University of Melbourne, Vital Strategies and the Centers for Disease Control and Prevention (CDC).

## Course structure

1. 2–3 days of didactic training with exercises (depending on country activities, scope, and country priorities)
2. Followed by 1–2 days of hands-on work/consultation to help produce specific products (analyses and/or reports)
3. Follow-up support as required and requested by country

## Course objectives

- Learn how to conduct and interpret basic vital statistics data analysis
- Become familiar with more advanced uses of CRVS data
- Learn to create high-quality vital statistics visualizations and reports
- Learn to disseminate CRVS data to multiple audiences – researchers, policymakers and media.



SESSION	DURATION	TOPICS
<b>Session 1: Why are vital statistics data important?</b>	1 hour	What are CRVS data? Public health uses of CRVS data Examples of how countries have used vital statistics to impact policy Overview of local CRVS system, quality issues, visions for using their country's CRVS data
<b>Session 2: Basic measures derived from vital statistics</b>	3 hours	Brief review of basic epidemiologic measures Mortality and fertility measures Age-standardised death rates Life expectancy and introduction to life tables
<b>Session 3: Measures that use cause of death (COD) data</b>	2 hours	COD; COD sources; analysis of COD data
<b>Session 4: CRVS data quality</b>	3 hours	Registration completeness Population data Quality of data used to disaggregate Plausibility of mortality measures Quality of COD data Assessing the quality of your data; ANACONDA (introduction or overview of country results)
<b>Session 5: Analysis and interpretation of vital statistics</b>	2.5 hours	Descriptive epidemiology Comparing the health of different populations to identify those at high risk International comparisons
<b>Session 6: Advanced measures</b>	2.5 hours	Introduction and multiple causes of death Years of life lost Advanced measures of disease burden Attributable mortality Analysis of verbal autopsy data.
<b>Session 7: Examples of using vital statistics data for policy and decision-making</b>	2 hours	Demographic and epidemiologic transition and using vital statistics for policy-making Example of using vital statistics data to evaluate health programs
<b>Session 8: Presenting vital statistics</b>	2.5 hours	Effective data visualizations Mapping vital statistics
<b>Session 9: Dissemination of vital statistics data</b>	3 hours	Communicating vital statistics to lay audiences Making vital statistics available to WHO and publically
<b>Consultation on using vital statistics data</b>	[1–2 days, plus follow up as needed]	The training program will be followed by a consultation on pre-determined project(s) related to CRVS data use. Projects, depending on country interest and capacity, can include: <ul style="list-style-type: none"> <li>■ Specific analyses of CRVS data, including more advanced data analyses</li> <li>■ Revisions / additions to standard national vital statistics report, including generating basic vital statistics metrics appropriate for standard reporting</li> <li>■ Short new vital statistics data reports</li> <li>■ Policy briefs using CRVS data</li> </ul>

The program partners on this initiative include: The University of Melbourne, Australia; CDC Foundation, USA; Vital Strategies, USA; Johns Hopkins Bloomberg School of Public Health, USA; World Health Organization, Switzerland.

Civil Registration and Vital Statistics partners:



**The University of Melbourne recognises the Swiss Tropical and Public Health Institute for their partnership and contribution**



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