Overcoming Challenges in Global Health Data to Empower Research: Collection, Attribution, and Dissemination

The Global Health Data Exchange (GHDx)

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Matthew Israelson
Data Development Manager
Agenda

• Collection
  o Acquisition
  o Storage

• Attribution
  o Cataloging
  o Enabling Research

• Dissemination
  o Publishing
  o Visualizations
About IHME

The Institute for Health Metrics and Evaluation (IHME)

- **July 2007**: Founding of IHME with support from Bill & Melinda Gates Foundation and the state of Washington

- **March 2011**: Launch of the Global Health Data Exchange (GHDx) at the Global Health Metrics and Evaluation conference


- **June 2014**: First yearly update of GBD published in *The Lancet*
About GHDx

Original Charter for the Global Health Data Exchange (GHDx)

- Catalog the world’s health and demographic data
- Share data where we have permission to
- As much as possible, tell people where to find data

Exponential growth in order to accommodate the research

- Includes over 30,000 data sources
- Search, metatags, detailed citations
- Growth based on researcher needs

ghdx.healthmetricsandevaluation.org
Acquisition

Growth of Records

- Health Surveys
- Census Records
- Surveillance Systems
- Disease Registries
- Vital Registration
- Hospital Records
- Financial Records
- Literature

# of Records in the GHDx

- January, 2011: 5500
- January, 2012: 7000
- January, 2013: 14000
- January, 2014: 28000
Storage

• Capacity of 250 Terabytes
• Access only for IHME staff
• Limited Use Access
  o Restricted to named researchers
  o Controlled or sensitive datasets

![IHME Cluster Usage Chart](image)
Cataloging

Welcome to the GHDx, the world’s most comprehensive catalog of surveys, censuses, vital statistics, and other health-related data. It’s the place to start your health data search. Learn more about the catalog in GHDx Help.

Download country-level GBD data

Country-level data from the GBD 2010 Study, originally published in visualizations in March 2013, are now available for easy download.

- Download complete results by country from the GBD Data Download page in the GHDx.
- Explore the data in the GBD results database and download just the data you need.
- Download underlying data for any visual in GBD Compare.

Search Data

Advanced search >>>

Search

Country Profile

Afghanistan

More Ways to Explore the GHDx

- By Data Type
- By Keyword

Global Health Data Exchange

Data Blog Recent IHME Datasets

Argentina PREVISTA Study
Pacific Cancer Registry Data
Nigeria Integrated Supportive Supervision Survey 2011
Nigeria National Water Supply And Sanitation Baseline Survey 2006
Nigeria Multiple Indicator Cluster Survey (MICS) 1999

View all

Subscribe

Resources

- Contact Us
- Data Sites We Love
- IHME Data Visualizations

Internal Users

- Create Blog Post
- Create Record
- Configure Firefox Security (do this!)
- Access Your User Account
- Export List of Records
- Submit a Data Request
- Epi Data Lists
Cataloging

Ukraine Multiple Indicator Cluster Survey 2000

- **Survey:** Household
- **Microdata status:** Not yet released
- **Data coverage:** 06/2000 - 09/2000
- **Ownership:** Report only

Ukraine Multiple Indicator Cluster Survey 2012

- **Survey:** Household - Individual - Interview - Nationally representative - Urban-rural representative
- **Microdata status:** Have microdata
- **Tabulations status:** Have report tabs
- **Data coverage:** 09/2012 - 12/2012
- **Ownership:** Complete

Ukraine Multiple Indicator Cluster Survey 2005

- **Survey:** Household
- **Microdata status:** Have microdata
- **Tabulations status:** Have report tabs
- **Ownership:** Complete

The Ukraine MICS was carried out in 2012 by the State Statistics Service in collaboration with the Ukrainian government, and supported by the United Nations Children's Fund (UNICEF). The survey covered various aspects of health, education, child protection, reproductive health, sexual behavior, and HIV/AIDS knowledge. Interviews were completed for 11,921 households, with interviews successfully completed for 8,006 women and 2,915 men. In addition, questionnaires were completed for 4,578 children.

**Keywords:** Abortion, Adverse effects of medical treatments, Age at first sex, Alcohol use, Anemia, Antenatal care, Antibiotics, Antimicrobial drugs, Assets, BCG vaccines, Birth certification, Birth control pills, Birth weight, Breastfeeding, Breathing difficulty, Caesarean section, Child care, Child development, Child health care, Child labor, Child mortality, Children, Community health clinics, Complete birth history... [View more]
Cataloging

Keywords

Health aid

Dataset Records for Health aid

Germany Federal Budget 2013

Japan International Cooperation Agency Annual Report 2013

Australia Aid Budget 2012-2013
Enabling Research

GHDx is a central component to IHME’s Infrastructure

- Website
- Catalog
- NID
- RSS
- Encyclopedia
- Wiki
### Verbal Autopsy GBD 2013

**Summary**

- **NID**: 136041
- **Time period covered**: 01/1950 - 03/2014
- **Secondary data types**: Verbal autopsy
- **Complete**: No

#### Related records

- **Total results for this project**: 549
- **To be reviewed**: 82
- **Accepted**: 451

#### Bangladesh Verbal Autopsy Study 1997

**Acceptance status**: To be reviewed

**Countries**:
- Afghanistan
- Algeria
- Angola
- Argentina
- Bahrain
- Bangladesh
- Belize
- Bhutan
- Bolivia
- Brazil
- Burkina Faso
- Burundi
- Cambodia
- Cameroon
- Cape Verde
- Central African Republic
- China

**Processing status**: Uploaded

**Assign to**: 

#### Bangladesh Demographic and Health Survey 2011-2012

**Acceptance status**: Accepted

**Processing status**: Uploaded

**Assign to**: 

**Causes of neonatal and maternal death in Dhaka slums: Implications for service delivery**

**Acceptance status**: Accepted

**Processing status**: Uploaded

**Assign to**: 

**Notes**: No comments
Publications

- Research Articles
- Policy Reports
- Brochures
- Country Profiles
- Infographics
- Newsletters
- Presentations
- Videos
- Visualizations
Visualization
Visualization
Visualization

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**Time Series**  | **Age Pattern**  | **Map**
---|---|---

**5q0**  | 45q15 F/M  | **Completeness**
---|---|---

version: S4 5q0 2014-03-19 11:23

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**Country:** Canada

**Method:** Direct unadjusted

**Source Type:** Vital registration

**Year:** 2016.5

**Outlier:** 1985

**Shock:** No

**Adjusted REF:** 0

**Is Reference:** Yes

**Raw Data:** 0.00585411

**Final Data:** 0.00585411

**Citation:** Statistics Canada, Canada CANSIM Database Annual Deaths by Age, Sex, Provinces and Territories.

****Click data point(s) to highlight or unhighlight**
Research Tool & Catalog

Complexities

• Need for an extensive IT Infrastructure
• Integrating researchers and staff
• Quantity of data sources and records

Current State

• Expansive, searchable health data catalog
• Tool development that empowers research
• Growth based upon new avenues of research