MPIDR-NES Training Programme

Moscow, New Economic School, 14th January - 1st February 2013

Population and Health

Лекция 6. Источники данных и системы классификации Lecture 6. Data sources and classification systems







Data sources: advantages of population-level mortality data



❖ Advantages of using population-level mortality data:

- ☐ Data cover whole populations and give more precise picture of health patterns of populations;
- □ Data are collected via centralized systems using uniform methodology and procedures;
- ☐ Based on uniform (international) definitions and classifications;
- ☐ Health is measured by strictly defined criterion (death) which is comparable across countries and in time;
- □ Special methods allow combining population-level mortality data with additional health characteristics (morbidity, disability, ...) from other sources and derive *complex population-based health indicators* accounting for both mortality and health status.

Limitations

☐ Requires fully functioning and costly data collection system.



Data sources: increasing variety of data on population health



Growing need for high quality population health data versus reality:

- ❖ Increasing variety of data sources, data collection methods, and variables measuring health outcomes ...
 - ... but reliable high quality data on population health are still available only for few developed countries.
- ❖ National and international health surveys cover many countries (including developing countries) and address a wider range of health issues...
- ... but many problems remain as these surveys still have serious limitations:
 - variety in sample sizes, methodology and definitions...
 - findings are not always comparable across countries and in time;
 - they often do not cover people in institutions and marginal population groups;
 - or restricted to some (the only accessible) areas or sub-populations.



Data sources: why we focus only on the developed countries?



Estimated completeness of population- based mortality data

Proportion of all deaths which are covered by the vital registration system

	Year	Completeness (
Albania	2004	58
Armenia	2003	68
Azerbaijan	2004	71
Belarus	2003	100
Brazil	2004	84
Colombia	2005	81
Ecuador	2005	70
Georgia	2001	85
Kazakhstan	2006	89
Kyrgyzstan	2006	89
Nicaragua	2005	61
Peru	2000	67
Tajikistan	2005	60
Turkmenistan	1998	81

Most of the developed countries show 99-100% of completeness of registrations of deaths.

Many developing countries show even worse figures than those in this table or do not have functioning registration systems at all.

Health/mortality survey data sometimes give very different outcomes on the same population.

In many cases demographic surveillance sites cover relatively small groups within populations. Results cannot be extrapolated to the national level.

Source: WHO, 2013 (http://apps.who.int/gho/data/#).



Sources of population-level death statistics Systems of registration of deaths in developed countries

Civil registration:

- □ a continuous, permanent, and obligatory recording system of the events which establish or change an individual civil status (specified in the civil code) such as birth, death, marriage, ...
- ☐ Provides legal documents and has a statistical function and is a primary data source for vital events (including deaths).
- ☐ Usually provides very limited additional information (e.g. on socio-economic characteristics (age, cause of death, place of birth & residence, sometimes education and marital status).

❖ Population register:

- □ a permanent and continuous system based on the linkage of individual records of demographic and social information on each individual and households in a given territory.
- ☐ regularly and rapidly updated by the recording observed *changes* in the civil or socio-economic status;
- □ can provide at any time an estimate of the population or any event (deaths) by various socio-economic characteristics;
- □ only few countries have fully functioning population registers which cover the whole population (Nordic countries, the Netherlands).



Filled

Sources of population-level death statistics Medical death certificate: an example of England & Wales



BIRTHS AND DEATHS REGISTRATION ACT 1953 (Form prescribed by Registration of Births and Deaths Regulations 1987) Registrar to enter No. of Death Entry	
MEDICAL CERTIFICATE OF CAUSE OF DEATH For use only by a Registered Medical Practitioner WHO HAS BEEN IN ATTENDANCE during the deceased's last illness, and to be delivered by him forthwith to the Registrar of Births and Deaths.	
Name of deceased	
Date of death as stated to me	
Place of death	
Last seen alive by me	
1 The certified cause of death takes account of information obtained from post-mortem. 2 Information from post-mortem may be available later 3 Post mortem not being held. 4 I have reported this death to the Coroner for further action. (See overleaf) Please ring approprie digit(s) am ver Not seen after death by another medical practitioner. Not seen after death by a medical practitioner.	
CAU E OF D. ATH The condition thought to the 'Ul erlying Cause of Death' should approximate interval The condition thought to the 'Ul erlying Cause of Death' should approximate interval	
a) Disease or condition directly leading to death	1
(b)Other disease or condition directly leading to leading to: I(a)	death
(c) Other disease or condition, if any,	
Other significant conditions CONTRIBUTING TO THE DEATH but not related to the causing it The death might have been due to or contributed to by the employ Other significant conditions contributing to de but not related to the disease or condition direct leading to death	
where applicable	
† This does not mean the mode of dying, such as heart failure, asphyxia, asthenia, etc: it means the disease, injury, or complication which caused death.	
, signed, and issued by medical doctor or forensic expert.	
For deaths in hospital: Please give the name of the consultant responsible for the above- named as a patient	
	_

Source: National Statistical Office, 2007.



Sources of population-level death statistics Death certificate: examples of England and Wales



Death certificate is issued by the civil registration institution (General Register Office). This document includes the following information:

- Date and place of death
- Name and surname of the deceased
- Date and place of birth
- Occupation
- Usual address
- + information on (underlying and secondary) causes of death from medical death certificate



Individual death records database at national statistics / institutes



Aggregated mortality data releases available for public

Extract from the USA death certificate

Education

Race

To Be Completed By: FUNERAL DIRECTOR	51. DECEDENT'S EDUCATION-Check the box that best describes the highest degree or level of school completed at the time of death. □ 8th grade or less □ 9th - 12th grade; no diploma □ High school graduate or GED completed □ Some college credit, but no degree □ Associate degree (e.g., AA, AS) □ Bachelor's degree (e.g., BA, AB, BS) □ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA) □ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DV*	52. DECEDENT OF HISPANIC ORIGIN? Check the box that best describes whether the decedent is Spanish/Hispanic/Latino. Check the "No" box if decedent is not Spanish/Hispanic/Latino. No, not Spanish/Hispanic/Latino Yes, Mexican, Mexican American, Chicano Yes, Puerto Rican Yes, Cuban Yes, other Spanish/Hispanic/Latino (Specify)	53. DECEDENT'S RACE (Check one or more races to ind decedent considered himself or herself to be) White Black or African American American Indian or Alaska Native (Name of the enrolled or principal tribe) Asian Indian Chinese Filipino Japanese Korean Veitnamese Other Asian (Specify) Native Hawaiian Guamanian or Chamorro Samoan Other Pacific Islander (Specify) Other (Specify)
	Occupation	one during most of working life. DO NOT USE RETIR	ED).
	55. K Busin	ess/industry	



Coding causes of death in medical death certificate Classifications of causes of death



International Classification of Diseases by WHO (since 1948):

The ICD is the international standard diagnostic classification for all general epidemiological, many health management purposes and clinical use.

It is used to classify diseases and other health problems recorded on many types of health and vital records including death certificates and health records.

ICD changes in time!

The most recent classification is ICD-10 (International Statistical Classification of Diseases and Related Health Problems, Tenth Revision).

The ICD-10 is divided into 21 big chapters (groups of diseases/problems) and includes 10000! items (exact diseases or problems). http://apps.who.int/classifications/icd10/browse/2010/en

Problem of comparability between different classifications (e.g. from 203 items in ICD0 to ~10000 in ICD10: some items are not corresponding between each ICDs or are located in different chapters.

Problems of comparability across countries and in time!

More details and some solutions - during the lectures 13-14 by France Meslé.



Examples of grouping causes of death for research purposes



Concept of avoidable causes of death:

- Causes amenable to medical interventions or treatable causes –
 (due to early detection, prevention and modern medical treatments)
 (e.g. "Birth trauma and asphyxia", "Appendicitis" or "Breast cancer").
- 2. Causes avoidable through primary prevention (national health policies): (e.g. "Malignant neoplasm of trachea bronchus and lung", "cirrhosis of liver", "transport accidents").

Note: there is an upper age limit (for most of the causes ~75 years). For more details see: Nolte & McKee, 2004.

Concept of "man-made" diseases:

These are causes of death related to life style or psychosocial factors. Alcohol- and smoking related causes of death (e.g. "poisoning by alcohol", "lung cancer", "traffic accidents", "suicides", and "homicides"). Meslé & Vallin, 2004.



Other important classifications by WHO



International Classification of Functioning, Disability and Health (ICF).

ICF is a classification of health and health-related domains. These domains are classified from body, individual and societal perspectives by means of two lists: a list of body functions and structure, and a list of domains of activity and participation. Since an individual's functioning and disability occurs in a context, the ICF also includes a list of environmental factors.

http://apps.who.int/classifications/icfbrowser/





Data sources on mortality and health



- 1. Databases on mortality statistics.
- 2. Databases on morbidity, disability, and health risk factors.



Data sources on mortality statistics: international databases The Human Mortality Database (http://www.mortality.org)



Department of Demography at the University of California, Berkeley

Max Planck Institute for Demographic Research

- ❖ First launched in May 2002 with 17 countries
- Currently 37 countries or areas and 9000+ users

Main principles

- ❖ Easy and free access via the internet, user-friendly format of data
- Data comparability across countries and time
- Uniform methods to calculate mortality estimates
- Careful documentation of data sources and computational methods:
 - → Methods protocol: http://www.mortality.org/Public/Docs/MethodsProtocol.pdf
- Uniform and additional country-specific data quality checks



The Human Mortality Database (<u>www.mortality.org</u>) The raw (original) data



- 1) The original data received from national statistical offices:
- Births (by sex)
- Deaths (by age & birth cohort, and sex)
- Population estimates or census counts by age, and sex
- Background and documentation files (overview of specifics of data collection systems, a special focus on data quality), references, and notes.

An example of input data file on deaths Rea

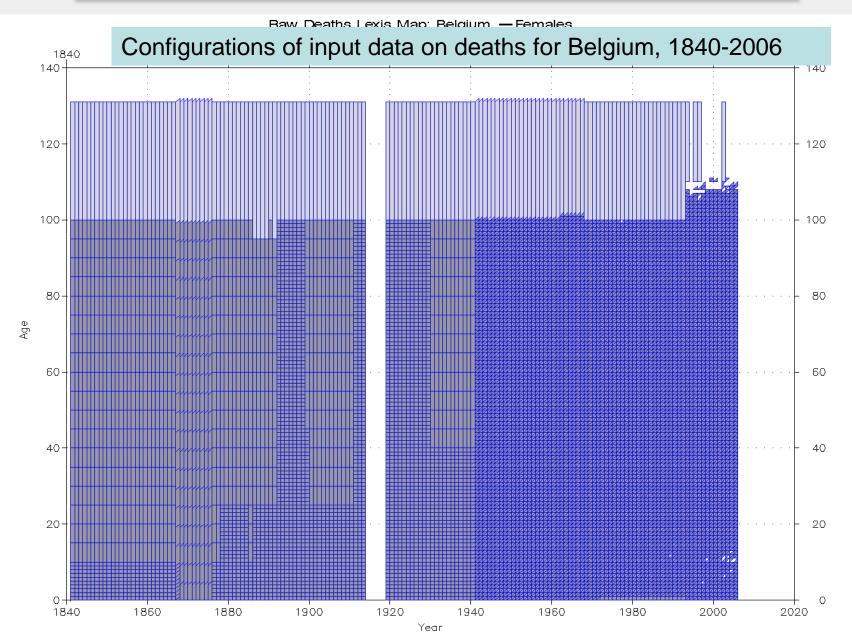
Read "Structure of data files section"!

PopName Area	'	Year	YearReg	YearInterv Sex		Age	Agel	nterva Lexis	3	RefCode	Access	Deaths	NoteCo	od NoteCode: N	NoteCode: LDE	3
BELTNP	10	1841	1841	1	f		0	1	RR	49	0	9248				1
BELTNP	10	1841	1841	1	f		1	1	RR	49	0	4126				1
BELTNP	10	1841	1841	1	f		2	1	RR	49	0	2147				1
BELTNP	10	1841	1841	1	f		3	1	RR	49	0	1241				1
BELTNP	10	1841	1841	1	f		4	1	RR	49	0	869				1
BELTNP	10	1841	1841	1	f		5	1	RR	49	0	628				1
BELTNP	10	1841	1841	1	f		6	1	RR	49	0	565				1
BELTNP	10	1841	1841	1	f		7	1	RR	49	0	471				1
BELTNP	10	1841	1841	1	f		8	1	RR	49	0	372				1
BELTNP	10	1841	1841	1	f		9	1	RR	49	0	341				1
BELTNP	10	1841	1841	1	f		10	5	RR	49	0	1420				1
BELTNP	10	1841	1841	1	f		15	5	RR	49	0	1818				1
BELTNP	10	1841	1841	1	f	2	20	5	RR	49	0	1619			•	1



The Human Mortality Database (<u>www.mortality.org</u>) The raw (original) data







The Human Mortality Database (<u>www.mortality.org</u>) Adjustments for the input data



Adjustments for the deaths and population estimates

- Distributing deaths and population of unknown age;
- Splitting deaths by single age into single age and birth cohort data;
- Splitting deaths and population by 5 year age groups into single age data;
- Splitting death counts in open age interval into single age and birth cohort.

Special adjustments for population estimates

- backwards recalculated population estimates for ages 80+ using extinct cohorts or survivor ratio methods;
- in some cases: new inter-censal population estimates according to the HMD methodology.

Special solutions and alternative data sources

- adjustments to territorial / definition changes;
- war periods and historical series.



The Human Mortality Database (<u>www.mortality.org</u>) The HMD estimates: period & cohort death rates and life tables



+WARNING

- +Background and Documentation (for Sweden)
- +List of Data Sources (for Sweden)

1. Births 1749-2010

- 2. Deaths 1751-2010 Lexis triangles 1x1 5x1
- 3. Population size (January 1st)

1751-2011 <u>1-year 5-year</u>

4. Exposure-to-risk

By year of death (period)

1751-2010 <u>1x1</u> <u>1x5</u> <u>1x10</u> <u>5x1</u> <u>5x5</u> <u>5x10</u>

By year of birth (cohort)

1676-1980 <u>1x1</u> <u>1x5</u> <u>1x10</u> <u>5x1</u> <u>5x5</u> <u>5x10</u>

5. Death rates

By year of death (period)

1751-2010 <u>1x1</u> <u>1x5</u> <u>1x10</u> <u>5x1</u> <u>5x5</u> <u>5x10</u>

By year of birth (cohort)

1676-1980 <u>1x1 1x5 1x10 5x1 5x5 5x10</u>

Age x Year

6. Life tables

By year of death (period) 1751-2010
Female 1x1 1x5 1x10 5x1 5x5 5x10
Male 1x1 1x5 1x10 5x1 5x5 5x10
Total 1x1 1x5 1x10 5x1 5x5 5x10

By year of birth (cohort) 1751-1919
Female 1x1 1x5 1x10 5x1 5x5 5x10
Male 1x1 1x5 1x10 5x1 5x5 5x10
Total 1x1 1x5 1x10 5x1 5x5 5x10

7. Life expectancy at birth

By year of death (period) 1751-2010
By year of birth (cohort) 1751-1919



The Human Mortality Database (<u>www.mortality.org</u>) Data quality issues



Attention to data quality

- Special diagnostic tools for internal and external plausibility checks
- Comparisons of the HMD estimates to official data
- Additional checks by country specialists
- Data quality issues are documented in the Background & Documentation files and notes
- In case of unresolved problems or poor quality of the input data, special warnings are given in the respective country pages
- Special solutions for inter-censal population estimates, but no adjustments for coverage errors or age heaping problems



Kannisto-Thatcher Database on Old Age Mortality at the Max Planck Institute for Demographic Research



- Was created to provide detailed mortality and population data at advanced ages (80+) with the main goal is to document the longevity revolution at oldest ages and to facilitate research into its causes and consequences;
- The core set of data was assembled, tested for quality, and converted into cohort mortality histories by Väinö Kannisto and Roger Thatcher;
- The database contains detailed data (deaths and population by age, year of birth, and calendar year; complete life tables) for 35 countries;
- Data are comparable across countries and time due to uniform methods to calculate mortality estimates;
- Data processing and the analysis of data trends online (analysis toolkit);
- Freely available online: http://www.demogr.mpg.de/databases/ktdb/



Analysis Toolkit: Output





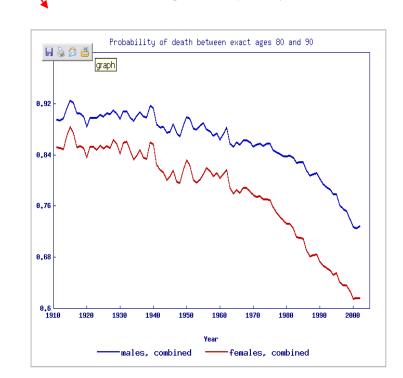


截 http://www.demogr.mpg.de/cgi-bin/databases/ktdb/ktdbp3.php?yb=1911&ye=2003&agr=1<w=1&x1=80&x2=90&ind=2&Submit22=Continue&c7=1&c13=1&ye1=2003 Links

Time period	1911 - 2002
Countries	England & Wales, Germany West
Output	Indicators aggregated by countries
CSV format	Probability of death between exact ages 80 and 90: q _{80,90}
Graphs	Graphic presentation of the trend
Method for aggregation	Summing up country-deaths and summing up country-populations

Probability of death between exact ages 80-90

First Year	Last Year	Ма
1911	1912	0.894
1912	1913	0.892
1913	1914	0.89
1914	1915	0.913
1915	1916	0.924
1916	1917	0.920
1917	1918	0.903
1918	1919	0.903
1919	1920	0.898
1920	1921	0.883
1921	1922	0.896
1922	1923	0.897
1923	1924	0.896
1924	1925	0.90:
1925	1926	0.898
1926	1927	0.903
1927	1928	0.903
1928	1929	0.909
1929	1930	0.902
1930	1931	0.894



Males

Females

Countries: England & Wales, Germany West





The WHO Mortality Database Data on causes of death



http://www.who.int/whosis/mort/download/en/index.html



- The biggest collection of data on age-specific mortality data by cause of death;
- Also covers developing countries;
- Data are classified by the International Classifications of Diseases (ICD);
- Long-term series since the 1950s (vary from country to country);
- Includes original data provided by national statistical institutes;
- No adjustments for input data or data quality checks;
- Only general documentation (codes of causes of death), little attention to country specifics;
- User unfriendly!



The WHO Mortality Database Data on causes of death



http://www.who.int/whosis/mort/download/en/index.html

Data files

Documentation [zip 87Kb]

Contains a Word file with information on the WHO Mortality Database, file specifications and list of causes of death. Last updated: 26 November 2012.

Availability [zip 149Kb]

Contains an Excel file with the list of countries-years available for the mortality and population data. Last updated: 26 November 2012.

Country codes [zip 3Kb]

Country codes and names. Last updated: 09 July 2012

Notes [zip 1Kb]

Notes pertaining to data for some countries-years. Last updated: 09 July 2012

Populations and live birth [zip 500Kb]

Reference populations and live births (for regular users, figures are now in units). Last updated: 26 November 2012.

Mortality, ICD-7 [zip 4.7Mb]

Data file containing the detailed mortality data for the seventh revision of the ICD (International Classification of Diseases). Last updated: 18 February 2004

Mortality, ICD-8 [5.3Mb]

Data file containing the detailed mortality data for the eighth revision of the ICD (International Classification of Diseases). Last updated: 09 July 2012

Mortality, ICD-9 [13.1Mb]

Data file containing the detailed mortality data for the ninth revision of the ICD (International Classification of Diseases). Last updated: 09 July 2012

Mortality, ICD-10 [zip 24.7Mb]

Data file containing the detailed mortality data for the tenth revision of the ICD (International Classification of Diseases). Last updated: 26 November 2012.

Documentation: very important!

Country codes

Population exposures

Deaths by cause (different classifications)

Note: very large files!

You will need STATA, SPSS, or other software + some computer resources.



3150

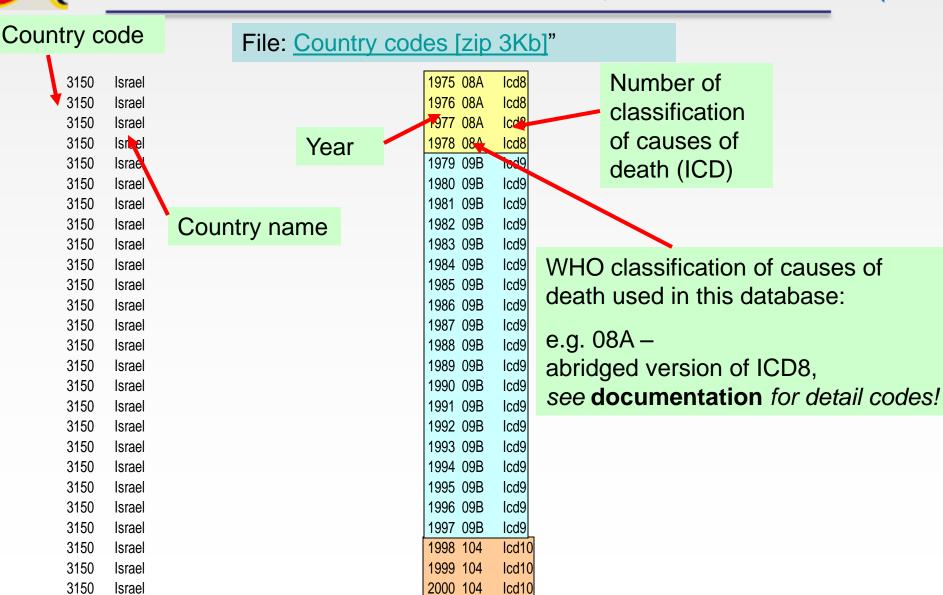
3150

Israel

Israel

The WHO Mortality Database The structure of the database: deaths by cause of death





Icd10 na naming Programme 2013 Population and Healm, were

Icd10

2001 104

2003 104



The WHO Mortality Database The structure of the database: deaths by cause of death



Table 3. ICD 8 A-LIST (condensed) and

Extract from documentation

ICD-8 A-LIST	Detailed List	
(condensed)	Numbers	Cause
A000		All causes
A001	000	Cholera
A002	001	Typhoid fever
A003	002, 003	Paratyphoid fever and other salmonella infections
A004	004, 006	Bacillary dysentery and amoebiasis
A005	008, 009	Enteritis and other diarrhoeal diseases
A006	010-012	Tuberculosis of respiratory system
A007	013	Tuberculosis of meninges and central nervous system
A008	014	Tuberculosis of intestines, peritoneum and mesenteric glands
A009	015	Tuberculosis of bones and joints

WHO codes

ICD codes

Data file "mortlcd8" -> rename -> add extension ".txt", eg. mortlcd8.txt: text file - comma separated format

									_		
Country	Admin1	SubDiv	Year	List	Cause	Sex	Frmat	IM	_Frmat	Deaths1	Deaths2
106	0		19	80 08A	A000		1	7	8	1087	375
106	0		19	80 08A	A000		2	7	8	1194	313
106	0		19	80 08A	A001		1	7	8	0	0
106	0		19	80 08A	A001		2	7	8	0	0
106	0		19	80 08A	A002		1	7	8	3 4	0
106	0		19	80 08A	A002		2	7	8	3 14	1
106	0		19	80 08A	A003		1	7	8	3	1



The WHO Health for All Database Some problems



- Jumps in the series attributable to the changes in the ICD classifications;
- Absence of data quality checks lead to mistakes strange jumps, peaks, disruptions in the data series;

More information will be provided during the lectures 13-14.

In order to extract data for countries / periods under your interest, use SPSS or STATA (insheet command).

B47	E800-E848	Transport accidents
B470	E800-E807	Railway accidents
B471	E810-E819	Motor vehicle traffic accident
B472	E826-E829	Other road vehicle accidents

Be careful – double-coding!
"B47" "Transport accidents"
already includes "B470",
"B471", "B472", ...



The WHO Health for All Database Extraction of particular causes of death



Codes are given in variable "Cause": e.g. B470 – railway accidents

3 digits code: transformation of variable "cause" into the three variables:

cause1 – a letter code, e.g. "B"

cause2 – 2 digits code, e.g. "47"

cause3 - 1 digit last code, e.g. "0"

Possible algorithm in STATA:

"substr" ->returns the substring of a string, starting at column n1, for a length of n2.

gen cause1=substr(cause, 1,1) gen cause2=substr(cause, 2,2)

gen cause3=substr(cause, 4,4)

destring cause2, replace force

destring cause3, replace force

2 digits code: transformation of variable "cause" into the two variables:

replace cause1=substr(cause, 1,1)

replace cause2=substr(cause, 2,3)



The WHO Health for All Database: an interactive analytical toolkit



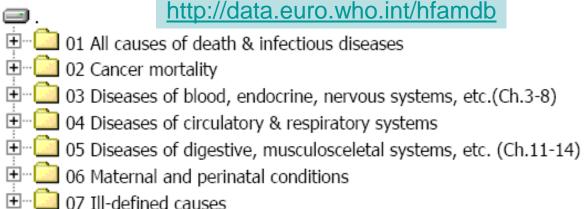
WHO Health for All Database

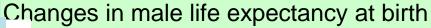


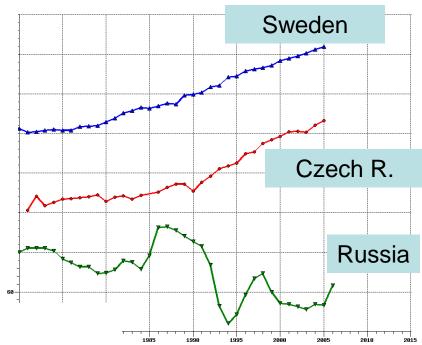
WHO Health for All Mortality Database Mortality indicators by 67 causes of death:

08 External causes of mortality

09 Population and ICD used









Other important international databases providing data on mortality



EUROSTAT (Statistical Office of European Union)

- Links to national statistical institutions
- CRONOS data base (population, mortality, and health)

http://epp.eurostat.ec.europa.eu/portal/page/portal/eurostat/home/

Note: It is better to "Google" "EUROSTAT" + "CRONOS"

UN Population Division Database

- Reports on population mortality
- Various mortality data, projections
- Population, Resources, Environment and Development Database:

http://esa.un.org/unpd/wpp/unpp/panel_population.htm

The Human Life-Table Database (MPIDR, UCB, INED)

- Series of life tables for many countries covering long-term periods
- Mainly officially published life tables by national statistical offices
- Some unofficial life tables produced by researchers
- Some life tables for regional or ethnic sub-populations

http://www.lifetable.de

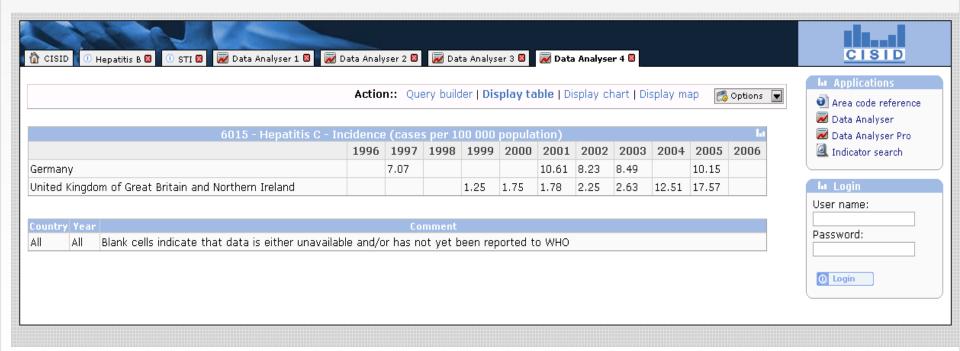


The centralized information system for infectious diseases WHO CISID system



http://data.euro.who.int/cisid/

Incidence of hepatitis C in Germany and the UK



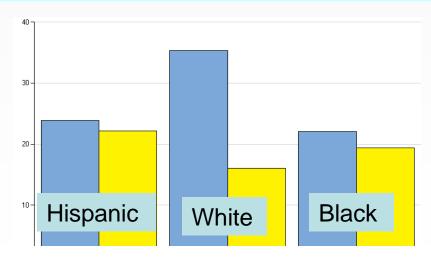


National health databases: National Center for Health Statistics (USA)

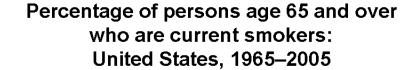


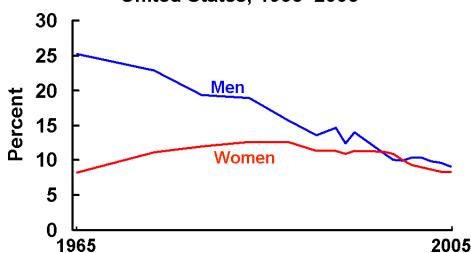
http://www.cdc.gov/nchs/hdi.htm

- Health and functional status
- Health care use and expenditures
- Health conditions
- Health insurance and access
- Mortality and life expectancy
- Pregnancy and birth
- Risk factors and disease prevention



Prevalence of heart dis. and diabetes by race. USA, males, 65+





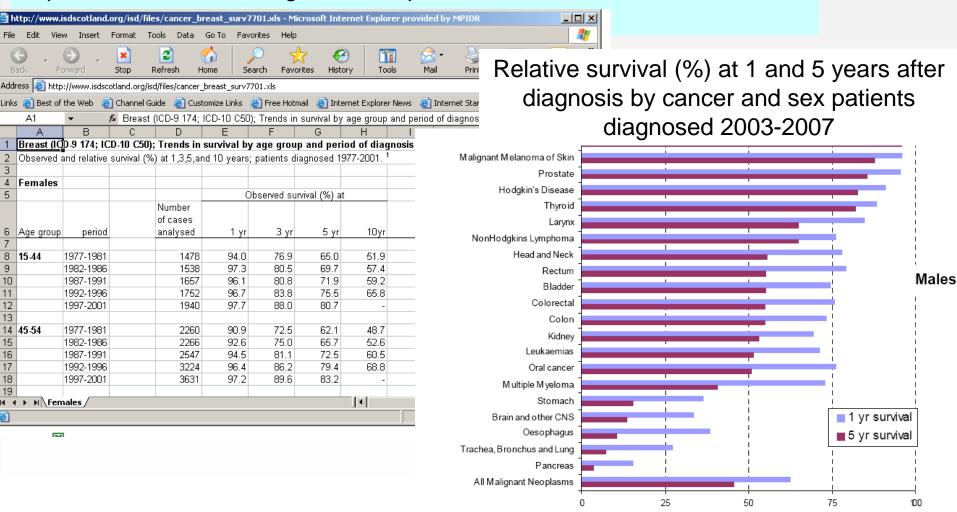
SOURCE: CDC/NCHS, National Health Interview Survey, Trends in Health and Aging, 2007. Available from: www.cdc.gov/nchs/agingact.htm.



Breast cancer incidence and survival. The cancer register of Scotland



http://www.isdscotland.org/Health-Topics/Cancer/Cancer-Statistics/Breast/



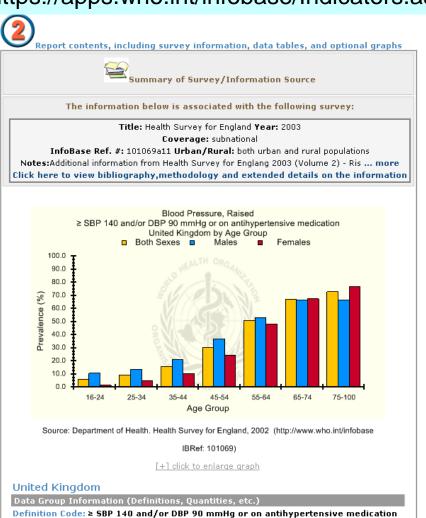


Data on risk factors: survey-based data



The WHO Global InfoBase

https://apps.who.int/infobase/Indicators.aspx



United Kingdom

Data Group Information (Definitions, Quantities, etc.)

Definition Code: ≥ SBP 140 and/or DBP 90 mmHg or on antihypertensive medication

Age Group	Sample Size (n)	Prevalence (%)	95 % CI
16-24	370	10.6	
25-34	557	13.6	
35-44	806	21.3	
45-54	699	36.7	
55-64	736	53.2	
65-74	577	66.6	
75+	363	66.7	
16+	4,108	34.3	32.8-35.6

Age Group	Sample Size (n)₽	Prevalence (%)🛛	95 % CI
16-24	479	1.5	
25-34	715	4.9	
35-44	994	10.4	
45-54	837	24.3	
55-64	889	48.2	
65-74	617	67.3	
75+	544	76.6	
16+	5,075	30.1	28.8-31.

Both Sexes							
Age Group	Sample Size (n)₽	Prevalence (%)	95 % CI				
16-24	849	6.1	-				
25-34	1,272	9.3					
35-44	1,800	15.9					
45-54	1,536	30.4					
55-64	1,625	50.7					
65-74	1,194	66.9					
75+	907	72.9					
16+	9,183	32.1	31.1-33.1				







Advanced research on European health expectancies



Formerly: EHEMU network http://www.eurohex.eu/

- Aggregated cross-national data on health from different surveys;
- Data explanations, questionnaires;
- Raw data: cross-tabulations and percentages;
- Uniformly calculated life tables and estimates of health/disability-adjusted expectancies.
- Methodology for calculation of health expectancy;
- Calculation and interpretation guide;
- Software applications (Excel, SAS, SPSS);
- Glossary.



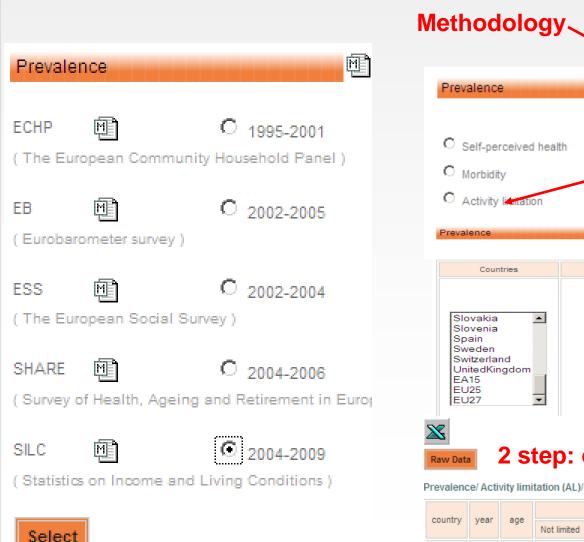


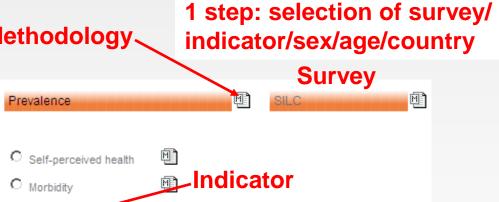
Sexes

Both

Men

Women





Ages

All ages 50

65

2 step: output

Prevalence/ Activity limitation (AL)/ Sweden/ 2009/ according to SILC U/by age/ for men

Years

2004 -

2007 -

2005

2006

	country	year	age	Men		
				Not limited	Limited	Severely limited
	Sweden	2009	[0-14]	0.971	0.0248	0.0042
e	Sweden	2009	[15-19]	0.942	0.0496	0.0085
	Sweden	2009	[20-24]	0.9458	0.0356	0.0185
	Sweden	2009	[25-29]	0.9481	0.0314	0.0205
	Curadaa	2000	120 241	0.0447	0.0510	0.0024





Survey of Health, Ageing, and Retirement in Europe http://www.share-project.org



Home

Brochure

Video

Sample

Questionnaire Wave 1

Questionnaire Wave 2

Questionnaire Wave 3

Item Correspondence

Research Data Center

Documentation

(SHARELIFE)

Frequently Asked Questions About the SHARE Data Set

Publications

Working Paper Series

Results

Find Out What You Always Wanted to Know About Older Europeans...

Press Information

Newsletter

Contact and Teams

Organisational Structure & Partners

Funding

- Coordinated by Munich Center for the Economics of Aging (MEA),
 Max Planck Institute for Social Law and Social Policy.
- a multidisciplinary and cross-national **panel** database of micro data on **health**, socio-economic status and social and family networks.
- Covers individuals aged 50 or over.
- The survey's 3rd wave, SHARELIFE, collects detailed retrospective life-histories in thirteen countries in 2008-09.
- Fifteen countries: Denmark, Sweden, Austria, France, Germany, Switzerland, Belgium, the Netherlands, Spain, Italy, Greece, Israel, the Czech Republic, Poland, and Ireland.
- The first wave was conducted in 2004-2006, the second wave was conducted in (2006-2007), the third wave was conducted in 2008-2009.
- Freely available for researchers.
- Health and social variables: self-reported health, physical functioning, cognitive functioning, health behavior, use of health care facilities, psychological variables, economic variables (current work activity, job characteristics, opportunities to work past retirement age, sources and composition of current income, wealth and consumption, housing, education), and social support variables (e.g. assistance within families, transfers of income and assets, social networks, volunteer activities).
 Population and Health. MPIDR-NES Training Programme 2013





http://www.cdc.gov/nchs/nhis.htm



National Health Interview Survey (NHIS)

Celebrating the First 50 years: 1957 - 2007

NCHS Home | NHIS Home | Description | 1997 NHIS | 1998 NHIS

1999 NHIS | NHIS on Disability | News Releases and Fact Sheets

Data Highlights | Coming Events | Methods | Publications

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National Health Interview Survey on Disability (NHIS-D)

NCHS Home | NHIS-D Home | Description
News Releases and Fact Sheets | Data Highlights | Bibliography
Coming Events | Methods | Micro-data | Related Links
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NCHS Definitions | Contact us

- a cross-sectional household interview survey covering the civilian non-institutionalized population;
- includes the major demographic and health characteristics with particular focus on illness and disability;
- some data are freely available, some data can be accessed through an application process: a research proposal should be submitted to the NCHS Research Data Center (RDC).



Homework task



- Find and extract male Standardized Death Rates for ischaemic heart diseases
 (for all ages) for the following countries: Russia, Ukraine, Estonia, Czech Republic.
 Time period: 1980-latest available year.
 Try to represent trends graphically. Copy your graph into a Word document and write few brief comments.
- 2) Find appropriate data source and calculate survival probabilities between the exact ages 15 and 60 for Russian and French males in 2005.

 Write few brief comments.