

SDG Goal 3	Good health and well-being
SDG Target 3.4	By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being
SDG Indicator 3.4.1	Mortality rate attributed to cardiovascular disease, cancer, diabetes or chronic respiratory disease
Time series	Mortality at the age of 30 to under 70 years

1. General information on the time series

- Date of national metadata: 7 December 2022
- National data: <http://sdg-indicators.de/3-4-1/>
- Definition: The time series measures the number of deaths of persons aged 30-70 years, expressed per 1,000 classified with the following ICD-10-diagnosis codes:
 - a) Cardiovascular disease: I00-I99
 - b) Cancer: C00-C97
 - c) Diabetes mellitus: E10-E14
 - d) Chronic respiratory disease: J30-J98

ICD-10 is the International Statistical Classification of Diseases and Related Health Problems 10th Revision (German Modification).

- Disaggregation: disease

2. Comparability with the UN metadata

- Date of UN metadata: December 2024
- UN metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-03-04-01.pdf>
- The time series is not compliant with the UN metadata, but provides additional information. It only contains the number of persons having died from the above listed diseases in a given age class whereas the UN metadata requests the probability of dying between the ages of 30 and 70 years (by using life table methods). The probability is defined as the percentage of 30-year-old-people who would die before their 70th birthday from the mentioned diseases.

3. Data description

- The data is derived from the causes of death statistics conducted by the Federal Statistical Office (analysis of the official death certificates).

4. Access to data source

- Deaths - GBE:
<https://www.gbe-bund.de/gbe10/i?i=6E>

5. Metadata on source data

- Quality Report – Causes of Death Statistics (only available in German):
<https://www.destatis.de/DE/Methoden/Qualitaet/Qualitaetsberichte/Gesundheit/todesursachen.pdf>

6. Timeliness and frequency

- Timeliness: t + 8.5 months
- Frequency: Annual

7. Calculation method

- Unit of measurement:
- Calculation:

$$\text{Mortality at the age of 30 to under 70 years due to } i = \frac{\sum_{k_j} \text{Deaths of persons aged 30 to under 70 years due to a disease with assigned ICD } k_j \text{ [number]}}{1,000}$$

$i \in \{\text{Cardiovascular disease; Cancer; Diabetes mellitus; Chronic respiratory disease}\}$

$k_{\text{Cardiovascular disease}} \in \{I00; \dots; I99\}$

$k_{\text{Cancer}} \in \{C00; \dots; C97\}$

$k_{\text{Diabetes mellitus}} \in \{E10; \dots; E14; \}$

$k_{\text{Chronic respiratory disease}} \in \{J30; \dots; J98\}$