

## METHODOLOGY FOR STUDYING OF MORTALITY

### Methodology and basic concepts

Survey objects in the demographic statistics are population and demographic events.

Survey object in the mortality are the dead persons. Deaths are registered at their occurrence and they form the respective periodical aggregate for a fixed time. This specific time for the current demographic statistics is a calendar year.

The event death is an intermission of the life functions of the constitution without any possibility for their recuperation.

The age of dead persons is calculated in completed years on the basis of the person's birth date and the date of the event death.

### Main indicators

The number of dead persons/ deaths is the actual quantitative amount of this aggregation. There are included all dead persons with present address in Bulgaria.

The aggregate of dead persons is used for the calculation of mortality indicators. The number of infant deaths under 1 year of age is used for characterization of the infant mortality.

The crude death rate ( $m$ ) shows the number of deaths per 1 000 population. It is calculated in ‰ as a relation between the number of deaths ( $M$ ) during the respective year and the average annual number of population ( $\bar{S}_i$ ) during the same year.

$$m\text{‰} = \frac{M}{\bar{S}_i} \cdot 1000$$

The infant mortality rate ( $m_o$ ) shows the number of dead children at the age below 1 year per 1 000 live born children. It is calculated in ‰ as a relation between the dead children at the age below 1 year during the respective year ( $M_o$ ) and the number of live born children ( $N$ ) during the same year.

$$m_o\text{‰} = \frac{M_o}{N} \cdot 1000$$

### Territorial distribution and data sources

Data on deaths are distributed in regional aspect (settlements, municipalities, districts and statistical regions) in accordance with the administrative-territorial division of the country as of 31.12. of the respective year by persons' present address. That address corresponds to the persons' officially declared residence.

Data source for dead persons is the form of National civil registration system certificate of death.