Causes of death in the EU

Eurostat has been collecting and disseminating mortality data by cause for the Member States of the European Union at national and regional (NUTS 2) level since 1994. This publication presents the results of an analysis of these figures for the 25 Member States over the period 2001-2003. It also reports on the death of European residents during the tsunami of December 2004.

Some of the main results at European level:

With most people nowadays dying old, diseases of the circulatory system, which are the main cause of death among older people (over 50% of deaths for persons aged 85 and over), are also the main cause for all sexes and ages in the European Union, accounting for 41% of deaths in 2003 (Figure 1). Those in the middle age ranges are more affected by malignant neoplasms (up to 44% of deaths in the 55-59 age group), which accounted for a quarter of deaths for all sexes and ages in 2003. A large proportion of deaths in the younger age groups are from external causes (mainly accidents and suicides): 67% in the 20-24 age group. Most of the new Member States are characterised by a high death rate due to diseases of the circulatory system, with the Baltic States also recording excess mortality from external causes.

Looking more closely at external causes, transport accidents account for almost 30% of deaths among 15-24 year olds. In the case of malignant neoplasms, respiratory cancers (larynx, trachea, bronchus and lung) are the largest group since these account for nearly one in 20 deaths in the EU as a whole and one in 12 among men. The most common cancer among women is breast cancer which contributed to almost 4% of all female deaths in 2003. All these causes can be influenced by preventive policies. The main group of diseases of the circulatory system is formed by ischaemic heart diseases which are responsible for over one in 6 deaths among persons aged over 70.

Finally, the specific collection of data following the catastrophic tsunami of 26 December 2004 in south-east Asia put the death toll for European residents at 1,385 (151 of whom are still listed as missing).
In this publication, all the analyses broken down by age group were conducted over the 3-years average of 2001-2003 in order to obtain sufficient numbers of cases or to smooth the variations for certain causes or for the less populated Member States.

In order to determine the relevant age groups for analysing European mortality by age, a typology of 5-year age groups has been compiled for mortality rates by causes of death in all Member States. This typology is an ascending hierarchical classification which aggregates 5-year age groups into larger groups depending on their similarity in terms of causes of death. The analysis has been conducted separately for men, women and both sexes combined. Causes linked to pregnancy and childbirth have been excluded from the analysis as they introduced a bias in women aged from 20 to 44 which had a marked effect on the typology obtained. This study and Figure 2 statistically determine homogeneous groups and show how they have been chosen and at what level of aggregation. Thus, for both sexes combined, five main age groups have been identified by type of death: 0-19, 20-44, 45-64, 65-84 and over 85. The study for women only has different age bands (20-49, 50-69 and 70-84). The Figure also offers further information on more detailed similarities between 5-year age groups.

A study has been carried out of the main causes of death for each of the five age groups. This is presented below.

**Transport accidents for the 0-19 age group**

External causes of injury and poisoning are the main cause of death among young men in the European Union, accounting for 18 deaths per 100 000 inhabitants aged 0 to 19. In Hungary, the Netherlands and the United Kingdom, however, this death rate is slightly lower than the rate for certain conditions originating in the perinatal period. The latter is the main cause of death among women, but there is less uniformity across the Member States with twelve countries recording the main cause as external causes of injury and poisoning or congenital malformations and chromosomal abnormalities.

The three countries with the lowest crude death rates by external causes among males aged 0 to 19 are Sweden, the Netherlands and the United Kingdom with 10, 11 and 12 deaths per 100 000 inhabitants respectively. The highest rates are recorded by Slovakia (45 per 100 000), Estonia (48), Latvia (48) and Lithuania (51). The rate in Ireland matches the European average (18).

Map 1 shows transport accidents among males aged 0 to 19, this death rate accounting for half of the European rate for external causes among both men and women in this age group. The male rate is, however, 2.4 times higher than the female rate.

For males aged 0-19, the lowest crude rates for transport accidents can be found in very much the same countries as for external causes in general: Sweden (5 per 100 000), the Netherlands and the United Kingdom (both 6). The three countries in which the crude death rate by transport accident is 15 deaths per 100 000 inhabitants or over, are Latvia (15), Lithuania (16) and Slovakia (19). Denmark, Luxembourg and Austria are close to the European average of 9 deaths per 100 000 inhabitants.
With regard to females aged 0-19, 10 deaths per 100 000 inhabitants in Europe were caused by certain conditions originating in the perinatal period and 8 deaths per 100 000 inhabitants due to external causes of injury and poisoning. The crude death rate for transport accidents among women is 4 per 100 000 inhabitants.

The second highest external cause is suicide which accounts for 14% of external causes among men and 10% among women aged 0 to 19 in the EU-25.
Some of the disparities between countries can, however, be explained by investigation problems as well as by cultural differences in the recognition of this form of death.

Malignant neoplasms among 45-64 year olds

Malignant neoplasms (tumours) are the main cause of death among persons aged 45 to 64, for both men and women, followed by diseases of the circulatory system.

Map 3 shows that men are more affected by malignant neoplasms of the larynx, trachea, bronchus and lung with 106 deaths per 100 000 inhabitants in the European Union; about one in 8 deaths in this age group. The countries where this type of mortality is highest are, in the main, Lithuania (151 per 100 000), Estonia (152), Poland (162), Latvia (167), Slovakia (174), the Czech Republic (187) and Hungary (236). The lowest rates are in Sweden (39) and Finland (51).

Women are also affected by malignant neoplasms of the larynx, trachea, bronchus and lung, but these neoplasms rank behind malignant neoplasms of the breast (29 deaths per 100 000 inhabitants in the EU for malignant neoplasms of the larynx, trachea, bronchus and lung as against 48 for malignant neoplasms of the breast).

Map 4 shows that the highest death rates for malignant neoplasms of the breast are recorded in women in the Netherlands (60 per 100 000), the Flemish part of Belgium (64) and Denmark (66). Spain (38), Greece (38) and Finland (40) have the lowest rates. The Baltic States, which displayed high crude mortality rates for the groups studied above are, on the other hand, fairly close to the European average for deaths related to breast cancer.
Ischaemic heart diseases among 65-84 year olds

The most frequent cause of death among the European population aged 65-84, for both men and women, is a disease of the circulatory system. This category includes ischaemic heart diseases and other heart diseases as well as cerebrovascular diseases. In the EU, it is estimated that almost one million people aged 65-84 died, on average, each year over the period 2001-2003 of a disease of the circulatory system. This form of death was highest in Lithuania (2 629 per 100 000 inhabitants), Hungary (2 786), Estonia (2 881), Slovakia (2 970), Latvia (3 061) and the Czech Republic (3 451) for both sexes combined, whereas France, Spain, Italy, the Flemish part of Belgium and the Netherlands had the lowest rates (869, 1 021, 1 178, 1 189 and 1 299 deaths per 100 000 inhabitants respectively).

Ischaemic heart diseases make up 41% of all fatal diseases of the circulatory system.

Map 5 shows deaths from ischaemic heart diseases in women aged 65-84. Again, the Baltic countries and Slovakia have the highest rates at 1 214 deaths per 100 000 inhabitants for Latvia, 1 278 for Slovakia, 1 318 for Estonia and 1 335 for Lithuania. The lowest rates are found in France (169 per 100 000), Spain (247), Portugal (275) and Italy (293).
Diseases of the circulatory system, in particular ischaemic heart diseases, are the most frequent cause of death among persons aged 85 and over, as for the previous age group. However, the rate for this type of death, both sexes combined, increases considerably beyond 84, as 4.8 times more people died, on average, of a disease of the circulatory system in this age group compared to the death rate among 65-84 year olds over the period 2001-2003 in the European Union. These persons have, in fact, survived beyond the life expectancy at birth threshold which was 75 for men and 81 for women in the EU in 2003. Death from ischaemic heart diseases therefore appears to be the most frequent form of death amongst the very old (2 822 deaths per 100 000 inhabitants among those aged 85 and over, both sexes combined), i.e. for persons who had not suffered from other causes of mortality which generally occur at an earlier age.

As the geographical breakdown of ischaemic heart diseases is almost the same as for the 65-84 age group, it is more relevant to conduct a study of the second largest cause of death from diseases of the circulatory system among persons aged 85 and over, i.e. cerebrovascular diseases (2 381 deaths per 100 000 inhabitants, both sexes combined).

Figure 3 shows cerebrovascular diseases among persons aged 85 and over. It can be seen that the crude female mortality rates are much the same as the male rates for all EU countries. The lowest rates are recorded in France, Slovakia, the Netherlands and the Flemish part of Belgium. Portugal, Greece, Latvia and the Czech Republic record the highest rates (the rate in the Czech Republic being 2.8 times higher than the European average).
Cerebrovascular diseases in persons aged 85 and over —
Crude mortality rates per 100 000 inhabitants — 2001- 2003

Figure 3: Cerebrovascular diseases among persons aged 85 and over

Deaths caused by the tsunami

European Union residents (most of whom were holidaying in the region) fell victim to the tsunami that struck south-east Asia on 26 December 2004. Therefore, the tsunami has an impact on the statistics on causes of death at both European and Member State level, particularly for Sweden where the number of citizens killed in the tsunami was comparatively high.

In the Member States, statistics on the causes of death are based on medical certificates which are completed by doctors for each death. However, some residents die in a country other than their country of residence and, in certain Member States, there is no procedure for collecting and inputting information on the cause of death in such cases. As a result, the death is registered in the statistics of the country in which this person lived as 'cause unknown' (or may even not be registered at all in the statistics on causes of death). Although the effects of this type of under-coverage have relatively little influence on the overall statistical picture, they do become important and visible in the case of accidents and catastrophes involving a large number of victims, such as aircraft accidents. Furthermore, the number of residents dying abroad can increase in tandem with the increased mobility of European citizens.

Given the scale of the catastrophe (the media reported thousands of victims from the EU), there was a possibility that seriously insufficient or erroneous coverage could have long-term effects on the comparability of European statistics on the causes of death.

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<tr>
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Table 1: Number of persons killed or missing as a result of the tsunami
Given the practices in force for recording residents/citizens who die abroad, it was highly likely that the statistics would never provide a clear picture of the number of European victims of the catastrophic effects of the tsunami. To overcome this, Eurostat (with the active cooperation of the Member States) collected specific data on the number of Europeans killed or missing as a result of the tsunami. The data for most countries are provided by the Ministry of Foreign Affairs and mainly refer to European citizens.

The data and explanations provided by the Member States made it possible to compile initial estimates in May 2005 for the 25 EU Member States, acceding and candidate (except Croatia) or EFTA countries. On this date, the total number of confirmed deaths was around 850, and 1 350 people listed as missing. Based on the information available from the different national sources, it was estimated that the probable number of deaths for the EU and the six other countries was around 1 525.

For legal reasons, it can take up to one year before a missing person is declared dead and recorded in the national statistics on causes of death. Eurostat, therefore, launched a new data collection exercise in January 2006. According to the data updated in March 2006 for the EU-25, 1 234 deaths have been confirmed and 151 people are still listed as missing. Given the extent of the research carried out into missing EU citizens and residents at the sites affected by the tsunami, it can be assumed that people still listed as missing are in fact dead. As a result, it can be concluded with a reasonable degree of accuracy that the number of European victims of the tsunami is close to 1 600 persons: around 1 390 victims from the EU Member States and 200 reported by Norway, Switzerland and Turkey (in round numbers).

These victims came from 20 countries, mainly the EU-15 countries, Norway and Switzerland. The following countries did not report any victims: Cyprus, Latvia, Lithuania, Hungary, Portugal, Slovenia, Slovakia, Bulgaria and Romania. The number of persons reported as dead or missing for the other countries is shown in Table 1.

The highest number of victims is reported by Sweden which accounted for almost one-third of all European victims (543 persons). The other countries with over 100 victims are: Finland (185), Germany and the United Kingdom (150 each) and Switzerland (112). These four countries account for another third of all European victims.

However, less than 0.05% of deaths in the EU and the accession, candidate and EFTA countries in 2004 can be attributed to the tsunami.

Marked differences between old and new EU Member States

Differences in mortality rates can also be observed among the EU Member States when examining all causes of deaths, as one country may have an excessive death rate for its young population compared to the European average and a below-average death rate in its older population, or vice versa. A typology similar to the previous one has been used to analyse these national mortality profiles by age, by aggregating countries depending on their similarity in terms of mortality rate by age. The analysis has been conducted separately for men and women on the data for all causes of death combined.

Map 6 presents the typology of male mortality. This analysis shows six groups of Member States. Type 1 represents Member States with a death rate which is very close to the European mortality rate: almost average infant mortality, followed by slightly excessive mortality among the 15-29 age group and then a slightly below-average death rate beyond 30. This is the case for the Flemish part of Belgium, Greece, Spain, France, Ireland, Italy, Cyprus, Luxembourg, Austria, Portugal, Slovenia and Finland, which account for half of the EU Member States. Type 2 is defined by slightly below-average mortality from 0 to 74 years followed thereafter by slightly above average rates, and comprises the following Member States: Denmark, Germany, Malta, Netherlands, Sweden and United Kingdom. Type 4, made up of Hungary and Poland only, shows excess mortality from 0 to 14, followed by around average mortality from 15-24, then excess mortality again thereafter (high from 35 to 69). Type 5 typifies the Baltic States (Estonia, Latvia and Lithuania) with high excess infant mortality, particularly in the 5-9 age group, and very high excess mortality from 20 to 64. Finally, Slovakia and the Czech Republic are cases apart as each of these two countries is represented by its own type: Type 6 for Slovakia which has very high excess mortality mainly from 0-14 and from 30-64 but a below average death rate beyond 80, and Type 3 for the Czech Republic which is characterised by excess mortality for all age groups, becoming high after 45.

To conclude, it can be seen that types 1 and 2 cover the EU-15 Member States plus Cyprus, Malta and Slovenia. The other new Member States are spread across the other four types.

For women, the composition of the groups is a bit more varied as types 1 and 2 encompass the EU-15 Member States (excluding Denmark) along with Cyprus, Poland and Slovenia. Denmark and Malta are classified in type 3 with Hungary (corresponding to type 4 for men). The other new Member States are spread across types 4 (type 3 for men), 5 and 6.
The aim of this last section is to identify which causes of death are the most useful for differentiating the Member States in terms of mortality, all ages and sexes combined. To do so, a specific data analysis (Factor Analysis) has been used based on the number of deaths corrected by the age structure of the national population, broken down into 17 groups of causes of death (see the codes and titles in the box on page 10). This analysis makes it possible to present Member States on a two-dimensional plane (Figure 4) broken down by the main groups of causes of death in these countries.

Thus, with the help of the diagram and the results on the actual impact of each group of causes in the similarities observed (which are also provided by analyses), it can be seen that the Member States on the left of the diagram, following the horizontal axis, are characterised by a higher death rate from diseases of the circulatory system. On the other hand, the countries on the right have an above-average proportion of deaths due to mental and behavioural disorders (including drug-related deaths) and, to a lesser extent, to diseases of the respiratory system. The vertical axis contrasts countries with a high death rate due to...
external causes of injury and poisoning, which are situated in the upper section of the diagram, to others which have a tendency to have a higher death rate for diseases of the respiratory system.

In this diagram, the Baltic States are still very close to each other - they are characterised by a high death rate for both diseases of the circulatory system and external causes that account for two-thirds of all deaths. Three other groupings stand out: Slovakia, the Czech Republic, Hungary and Poland, along with Greece and Germany, also have high death rates from diseases of the circulatory system (around 50% of deaths); the United Kingdom, Ireland, Malta and, to a lesser extent, the Flemish part of Belgium, Spain, the Netherlands, Luxembourg and Denmark are characterised by a high death rate due to diseases of the respiratory system (around 10% of deaths); and the final, more diffuse, grouping encompasses the remaining EU-15 countries and Slovenia. Furthermore, the accession, candidate (excluding Turkey) and EFTA countries, which were not taken into consideration in the factor analysis, have been shown on the diagram depending on their characteristics by groups of causes. It can be seen that the EFTA countries (Norway, Iceland and Switzerland) are close to Finland, Portugal and Sweden (fairly high number of deaths due to mental and behavioural disorders). The candidate countries can be found on the left of the plane, with the most marked features being a high death rate from diseases of the circulatory system for Croatia, and a very high rate (over 60%) for Bulgaria and Romania.

The groups of causes shown in the diagram are:

- **c1** Infectious and parasitic diseases
- **c6** Neoplasms (cancers are the second cause of death in the EU but without any notable geographical variations)
- **c25** Diseases of the blood(-forming organs), immunological disorders
- **c26** Endocrine, nutritional and metabolic diseases
- **c28** Mental and behavioural disorders
- **c31** Diseases of the nervous system and the sense organs
- **c33** Diseases of the circulatory system
- **c37** Diseases of the respiratory system
- **c42** Diseases of the digestive system
- **c45** Diseases of the skin and subcutaneous tissue
- **c46** Diseases of the musculoskeletal system/connective tissue
- **c48** Diseases of the genitourinary system
- **c50** Complications of pregnancy, childbirth and puerperium
- **c51** Certain conditions originating in the perinatal period
- **c52** Congenital malformations and chromosomal abnormalities
- **c55** Symptoms, signs, abnormal findings, ill-defined causes (this cause is shown on the diagram but has not been taken into account in the factor analysis)
- **c58** External causes of injury and poisoning

Groups of causes not featured in the diagram only have a minor influence on the groupings and differences between Member States.

![Figure 4: Member States, all ages and sexes combined, by groups of causes of death, 2003 (factorial plane – see methodological notes)](image-url)
The spatial analysis scale used in this publication is the national level, with the exception of Belgium, which is represented only by the Flemish region (code BE2 of Eurostat’s NUTS Nomenclature of Territorial Units for Statistical Purposes), as the latest national data for the whole of Belgium date back to 1997. The data have been aggregated over the period 2001-2003, with the exception of some countries for which the 2003 (or 2002) data were missing: Denmark and Slovakia (1999-2001); the Flemish part of Belgium, France and Italy (2000-2002). The data for Cyprus are only available at global level, and are not broken down by cause of death. The causes and groups of medical causes of death chosen have been selected from the summary list of 65 causes compiled by Eurostat, which is based on the International Statistical Classification of Diseases and Related Health Problems (ICD) developed and maintained by the WHO.

The mortality indicator analysed in this “Statistics in Focus” is the crude rate. Depending on the type of breakdown used (sex, age or cause of death), it provides insights into:
- mortality in relation to the total population,
- differences in mortality between men and women, either between countries, by cause of death or by age category,
- the level of mortality for each age category.

In this publication, the results are presented according to a spatial analysis of the causes of mortality for each of the age groups (selected according to a hierarchical ascending classification of 5-year age groups conducted on European data): transport accidents in 0-19 year olds, suicides among 20-44 year olds, malignant neoplasms among 45-64 year olds, ischaemic heart diseases for the 65-84 age group and cerebrovascular diseases among person aged 85 and over. For mapping purposes, the data were grouped into four classes of seriousness, depending on the number of spatial units concerned, for each statistical series, with 25% per class.

The number of deaths caused by the tsunami of December 2004 has also been collected by Eurostat from the national authorities via the statistical offices of each Member State and this is shown in the form of a table of killed and missing persons (who can now be considered as dead, but whose bodies have not yet been identified).

Finally, in order to provide an overview of geographical differences in the death rate, two summary analyses have been compiled:

The first is a hierarchical ascending classification of the death rate by age for all causes combined in the Member States. The typological map portrays standard mortality profiles, so the colour does not reflect the level of seriousness. This map of typologies by age contains a number of graphs showing, on the vertical axis, mortality ratios in relation to the European average and, on the horizontal axis, the age classes. Thus, the age classes which appear below value 1 have a higher mortality rate than the European average, and vice-versa.

The second is a factor analysis on the death rate in the Member States, by groups of causes of death, all sexes and ages combined, and the factorial plane obtained is presented in the last part of this publication. This analysis studies the correspondence between two qualitative variables (in this case the Member States and groups of causes), which are cross-referenced in a contingency table containing the frequency of causes of death in relation to the total death rate, after correction for the effects of the age structure of national populations (standardisation in accordance with the WHO European population). This involves looking for the best simultaneous representation for these two variables. The factorial plane obtained is then studied with the help of the results calculated during the analysis. These results indicate the contribution of each value of the variable to the formation of the axes. They are, therefore, very useful for identifying which values of the variable have a more important effect in the analysis than others, which is not always possible when only looking at the diagram as certain outlying points may only make a very small contribution. In this diagram therefore, the situation of a Member State on the plane indicates its correlation with the causes influencing the orientation of the axes and the causes in its proximity.

Crude death rates have been used to study deaths among age categories:

\[
TBM = \frac{D}{E} \times 100000 \quad \text{where}
\]

\[
TBM = \text{crude death rate per 100,000 inhabitants (in the age category in question)}
\]

\[
D = \text{number of deaths recorded in the population for a given period}
\]

\[
E = \text{size of the population in the same period}
\]

An ascending hierarchical classification is an iterative algorithm which groups the two most similar individuals or classes of individuals in each loop (in this publication, individuals are represented either by age categories or by Member States depending on the analysis). Ward’s method was the classification method chosen from those available. This method tends to obtain the largest possible inter-class inertia. The distance (in this case in terms of death rates) between 2 classes is calculated as follows:

\[
D(A, B) = \sqrt{\frac{1}{N_A} + \frac{1}{N_B}} \left[\frac{X_A}{N_A} - \frac{X_B}{N_B}\right]^2
\]

\[
D = \text{distance between 2 classes } A \text{ and } B
\]

\[
X_A = \text{average of class } A
\]

\[
N_A = \text{population of class } A
\]

List of codes used for the Member States, accession candidate and EFTA countries: Belgium (BE), Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Greece (EL), Spain (ES), France (FR), Ireland (IE), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE), United Kingdom (UK), Bulgaria (BG), Croatia (HR), Romania (RO), Turkey (TR), Iceland (IS), Norway (NO), Switzerland (CH).
Further information:

Reference publications

Title: Atlas on mortality in the EU
Catalogue No: KS-08-02-001-EN-C
Price: EUR 30

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    - Causes of death

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