IA|BE Mortality Watch 1 5 May 2020

*We hereby present you a first issue of the IA|BE Mortality Watch. Through this publication we want to inform you of information about mortality that could be of use in your daily work.*

*As we operate in a fast-moving industry, we can’t claim to be complete. Our main aim is to make you aware of the changes and to trigger your attention.*

*The IA|BE Mortality Watch is based on publicly available information.*

*If you have additional information, suggestions or remarks relating to this initiative: send a mail to* [*contact@iabe.be*](mailto:contact@iabe.be) *.*

## Belgium

[**Worldometers**](https://www.worldometers.info/coronavirus/#countries) **publishes daily corona casualties reported in Belgium**

* This page gives similar information for each country

**John Hopkins University & Medicine Coronavirus Resource Center.**

* [How does mortality differ across countries?](https://coronavirus.jhu.edu/data/mortality)

**BE – 2020 0303: Federal Planning Bureau publishes its** [**2019 – 2070 demographic outlook**](https://www.plan.be/publications/publication-1971-en-2019+2070+demographic+outlook)

**BE – Population Statistics Belgium (**[**NL**](https://www.plan.be/publications/publication-1971-en-2019+2070+demographic+outlook) **/** [**FR**](https://www.ibz.rrn.fgov.be/fr/population/statistiques-de-population/)**)**

* Situation on 1 January 2020: Belgium has population of 11,476,279
* Details per municipality, region, province, …

**BE - 2019 0802: Statbel publishes:** [**Stable mortality rates in the last 10 years**](https://statbel.fgov.be/en/themes/population/mortality-life-expectancy-and-causes-death/mortality#figures)

* 2018: 110,645 deaths (gross mortality: 9.7 per mile)
* XL-file with daily deaths 2008 – 2018 (also breakdown per municipality)

**BE – 2019 0703: Publication in the Belgian Official Gazette of the** [**2019 Conversion Tables for the Valuation of Usufruct**](http://www.ejustice.just.fgov.be/cgi/article_body.pl?language=nl&caller=summary&pub_date=19-07-03&numac=2019013535)**.**

* IABE is part of the annual update and validation process of these tables.

**BE – 2019 0617: Statbel publishes** [**Structure of the Belgian population**](https://statbel.fgov.be/en/themes/population)

* The legally resident population of Belgium was 11,431,406 on 1st January 2019, 51 % of which were women (or 5,803,178 in absolute figures) and 49 % were men (or 5,628,228), excluding the waiting register[[1]](https://statbel.fgov.be/en/themes/population/structure-population#ftn1).
* The Belgian population has grown by 55,336 persons, or 0.49 % on a yearly basis. This growth rate is fully in line with the growth of previous years (still around half a percent).
* Themes:
  + Structure of the population
  + Births and fertility
  + Population movement
  + Mortality, Life expectancy and causes of death
  + Migration

**BE – 2019 0101:** [**Number of persons per birthday**](https://statbel.fgov.be/en/open-data/number-persons-birthday) **(based on figures 1 January 2019)**

* Highest: 90,133 people celebrate their birthday on 1 July
* Lowest: 25,904 people celebrate their birthday on 1 November
* And: 7,145 people celebrate their birthday on 29 February

**Belgian Mortality Monitoring** [***“Be-MoMo”***](https://epistat.wiv-isp.be/momo/)

* 7 April 2020: number of daily deaths surpasses 600 because of corona
* [Zomer 2018 – België: Surveillance van de mortaliteit door alle oorzaken in België, Vlaanderen, Wallonië en Brussel tijdens de zomer van 2018](https://epistat.wiv-isp.be/docs/momo/Be-MOMO%20summer%202018%20report_NL.pdf)
* [Été 2018 – Belgique: Surveillance de la mortalité toutes causes en Belgique, Flandre, Wallonie et Bruxelles durant l’été 2018](https://epistat.wiv-isp.be/docs/momo/Be-MOMO%20summer%202018%20report_FR.pdf)
* [Winter 2017—2018 - België: Surveillance van de mortaliteit in België, Vlaanderen, Wallonië en Brussel in de winter van 2017—2018](https://epistat.wiv-isp.be/docs/momo/Be-MOMO%20winter%202017-18%20report_NL.pdf)
* [Hiver 2017—2018 - Belgique: Surveillance de la mortalité en Belgique, Flandre, Wallonie et Bruxelles durant l'hiver 2017—2018](https://epistat.wiv-isp.be/docs/momo/Be-MOMO%20winter%202017-18%20report_FR.pdf)
* [Zomer 2017 – Vlaanderen: Surveillance van de mortaliteit door alle oorzaken in Vlaanderen tijdens de zomer van 2017](https://epistat.wiv-isp.be/docs/momo/2017-Surveillance-mortaliteit-alle-oorzaken-Vlaanderen-zomer.pdf)
* [Zomer 2017 – België: Surveillance van de mortaliteit door alle oorzaken in België tijdens de zomer van 2017](https://epistat.wiv-isp.be/docs/momo/2017_Rapport_surveillance_van_de_mortaliteit_zomer_Belgie.pdf)
* [Été 2017 – Belgique: Surveillance de la mortalité toutes causes en Belgique durant l'été 2017](https://epistat.wiv-isp.be/docs/momo/2017_Rapport_surveillance_de_la_mortalite_ete_Belgique.pdf)
* 2010 04: [Monitoring of all-cause mortality in Belgium (Be-MOMO): A new and automated system for the early detection and quantification of the mortality impact of public health events.   
  Bianca Cox, Francoise Wuillaume, Herman Van Oyen, Sophie Maes.   
  International journal of public health. 55. 251-9. 10.1007/s00038-010-0135-6 (April 2010).](https://www.researchgate.net/publication/43074599_Monitoring_of_all-cause_mortality_in_Belgium_Be-MOMO_A_new_and_automated_system_for_the_early_detection_and_quantification_of_the_mortality_impact_of_public_health_events)

**Info-coronavirus.be (**[**NL**](https://www.info-coronavirus.be/nl/news/verzamelen-cijfers/) **/** [**FR**](https://www.info-coronavirus.be/fr/) **/** [**ENG**](https://www.info-coronavirus.be/en/)**)**

[**Sciensano**](https://www.sciensano.be/en)

* In Belgium, surveillance of all-cause mortality is carried out on a weekly basis by the [Infectious Diseases Epidemiology Unit](https://epidemio.wiv-isp.be/) of [Sciensano](https://www.sciensano.be/). The mortality monitoring model is designed to serve as a tool for rapid detection and quantification of unusual mortality which might result from disease epidemics such as influenza or from extreme environmental conditions such as heat waves.
* [Raw data](https://epistat.wiv-isp.be/covid/): updated daily

**IABE Mortality Tables**

* Last update dates from January 2015;
* More info on [iabe.be](https://iabe.be/expert-groups/output/output)
* Linked to this:

BE - 2017 1014: Original research paper published in the European Actuarial Journal by Katrien Antonio, Sander Devriendt a.o., *“Producing the Dutch and Belgian mortality projections: a stochastic multi-population standard”*.

## Europe

**Eurostat**

* Next to more general economic indicators, Eurostat also gives an overview of [Accidents at Work](https://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hsw_ph3_08&lang=en) by age, sex, severity, etc. for the EU in total and for the 28 individual countries;
* Also rich on [mortality related data](https://ec.europa.eu/eurostat/web/population-demography-migration-projections/data/database)
* Eurostat [reference metadata](https://ec.europa.eu/eurostat/cache/metadata/en/demo_mor_esms.htm):

**European Mortality Monitor:** [***“Euro-MoMo”***](https://www.euromomo.eu/index.html)

* European monitoring of excess mortality for public health action

**Related articles:**

[European all-cause excess and influenza-attributable mortality in the 2017/18 season: should the burden of influenza B be reconsidered?   
Nielsen J, Vestergaard L, Richter L, Schmid D, Bustos Sierra N, Asikainen T et al.   
Clinical Microbiology and Infection. 10.1016/j.cmi.2019.02.011. (February 2019)](https://www.sciencedirect.com/science/article/pii/S1198743X19300588)

[Excess all-cause and influenza-attributable mortality in Europe, December 2016 to February 2017.   
Vestergaard L, Nielsen J, Krause T, Espenhain L, Tersago K, Bustos Sierra N et al.   
Euro Surveillance Vol. 22, N°14 (April 2017).](http://www.eurosurveillance.org/content/10.2807/1560-7917.ES.2017.22.14.30506)

[Excess mortality among the elderly in European countries, December 2014 to February 2015.   
Mølbak K, Espenhain L, Nielsen J, Tersago K, Bossuyt N et al.   
Euro Surveillance Vol. 20, N°11 (March 2015).](http://www.eurosurveillance.org/content/10.2807/1560-7917.ES2015.20.11.21065)

[Excess mortality among the elderly in 12 European countries, February and March 2012.   
Mazick A, Gergonne B, Nielsen J, Wuillaume F et al.   
Euro Surveillance Vol. 17, N° 14 (April 2012).](http://www.eurosurveillance.org/content/10.2807/ese.17.14.20138-en)

[Higher all-cause mortality in children during autumn 2009 compared with the three previous years : pooled results from eight European countries.   
Mazick A, Gergonne B, Wuillaume F, et al.   
Euro Surveillance Vol.15, N°5 (February 2010).](http://www.eurosurveillance.org/content/10.2807/ese.15.05.19480-en)

[Death toll exceeded 70,000 in Europe during the summer of 2003.   
Robine JM, Cheung SL, Le Roy S, Van Oyen H et al.   
Comptes Rendus Biologies, Vol. 331, N°2 (2008), 171-178.](https://www.sciencedirect.com/science/article/pii/S1631069107003770?via%3Dihub)

**[Population Europe](https://population-europe.eu/)**

* Network of Europe’s leading demographic research centres
* The secretariat is hosted by the Max Planck Institute for Demographic Research
* Mentions a [Call for Papers: Demographic Aspects of the COVID-19 Pandemic and its Consequences](https://population-europe.eu/call-papers/call-papers-demographic-aspects-covid-19-pandemic-and-its-consequences): very interesting views put forward
* Conference announced end of November 2020

**EUR - 2018 0608:** In its publication [“**Multiregional Population Projection Model”**](https://www.plan.be/publications/publication-1786-nl-multiregional+population+projection+model+at+the+eu+level)**,** the Federal Planning Bureau gives a concise overview of the mortality and fertility assumptions in 2015 and 2080 for all EU countries and Norway

**OECD iLibrary:** [**Health at a Glance: Europe 2018**](https://www.oecd-ilibrary.org/social-issues-migration-health/health-at-a-glance-europe-2018/main-causes-of-mortality_health_glance_eur-2018-9-en)

* *Health at a Glance: Europe 2018* presents comparative analyses of the health status of EU citizens and the performance of the health systems of the 28 EU Member States, 5 candidate countries and 3 EFTA countries. It is the first step in the *State of Health in the EU* cycle of knowledge brokering. This publication has two parts. In Part II, the most recent trends in key indicators of health status, risk factors and health spending are presented, together with a discussion of progress in improving the effectiveness, accessibility and resilience of European health systems.

**NL – 2020 0407:** [**Statement of Actuarieel Genootschap on Covid-19**](https://www.ag-ai.nl/nieuws.php?action=view&Nieuws_Id=909)

## UK - [Patterns of mortality by occupation in the UK, 1991–2011: a comparative analysis of linked census and mortality records](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5666203/)

## International

**[The Human Mortality Database](https://www.mortality.org/)**

* The Human Mortality Database (HMD) was created to provide detailed mortality and population data to researchers, students, journalists, policy analysts, and others interested in the history of human longevity.
* This Database includes data on Belgium. Overview of publications using the HMD as of August 2019: 23 Belgian publications mentioned

**Human Life Table Database (part of the HMD project)**

* [Gives data for Belgium as of 1900](https://www.lifetable.de/cgi-bin/country.php?code=bel)
* Gives detailed overview of sources
* Up to date until YE 2018

**[Endcorona Organisation](https://www.endcoronavirus.org/)**

**World Health Organization –** [**Mortality Database**](https://www.who.int/healthinfo/mortality_data/en/)

# US – 2020 0416: Society of Actuaries Research Brief: Impact of COVID-19

* [Society of Actuaries Research Brief: Impact of COVID-19, April 16, 2020](https://www.soa.org/globalassets/assets/files/resources/research-report/2020/2020-covid-19-research-brief-04-16.pdf)
* [Connecting Emerging COVID-19 Data to Insured Claims](https://www.soa.org/resources/research-reports/2020/connecting-emerging-covid-19/)
* [Projections of COVID-19 Hospitalizations and Deaths](https://www.soa.org/resources/research-reports/2020/covid-19-hospilizations-deaths/)
* [Mental Health Trends and COVID-19](https://www.soa.org/resources/research-reports/2020/covid-19-mental-health/)
* [COVID-19 Costs to Commercial Health Insurers](https://www.soa.org/resources/research-reports/2020/covid-19-cost-commercial/)
* [Impact of COVID-19 on Retirement Risks](https://www.soa.org/resources/research-reports/2020/covid-19-retirement-risk/)

# US – 2019 1215: USA Today: Workplace fatalities: [25 most dangerous jobs in America](https://eu.usatoday.com/story/money/careers/2018/01/09/workplace-fatalities-25-most-dangerous-jobs-america/1002500001/)

# US - 2020 0430 New York Times

# published [analysis about unreported corona-deaths](https://www.nytimes.com/interactive/2020/04/21/world/coronavirus-missing-deaths.html). Globally they observe an understatement of at least 46,000 deaths globally; for Belgium, they mention 800 deaths unreported.

## Corona on LinkedIn:

**UK:** [**Covid-19 Actuaries Response Group**](https://www.linkedin.com/company/covid-19-actuaries-response-group/)**: 3025 followers**

**Articles written by Tomas Pueyo**

* [*The Hammer and the Dance*](https://medium.com/@tomaspueyo/coronavirus-the-hammer-and-the-dance-be9337092b56) (19 March 2020)
* [*Learning how to dance*](https://medium.com/@tomaspueyo/coronavirus-learning-how-to-dance-b8420170203e) (20 April 2020)