

# COVID19BE OPEN DATA CODEBOOK

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## COVID19BE\_CASES\_AGESEX

### CONFIRMED CASES BY DATE, PROVINCE, AGE AND SEX

Variable	Definition
DATE	Date of symptoms onset, sampling, diagnosis, or reporting (earliest available date is used and might be changed as new information becomes available)
PROVINCE	Province of residence of confirmed cases (including Brussels)
REGION	Region of residence of confirmed cases
AGEGROUP	Age group of confirmed cases
SEX	Sex of confirmed cases
CASES	Number of confirmed cases (combinations with zero cases are not shown)

## COVID19BE\_CASES\_MUNI

### CONFIRMED CASES BY DATE AND MUNICIPALITY

Variable	Definition
DATE	Date of symptoms onset, diagnosis, or reporting (earliest available date is used)
NIS5	NIS-code of residence of confirmed cases (5 digits)
TX_DESCR_NL	Municipality of residence of confirmed cases (Dutch name)
TX_DESCR_FR	Municipality of residence of confirmed cases (French name)
TX_ADM_DSTR_DESCR_NL	Administrative district of residence of confirmed cases (Dutch name)
TX_ADM_DSTR_DESCR_FR	Administrative district of residence of confirmed cases (French name)
PROVINCE	Province of residence of confirmed cases (including Brussels)
REGION	Region of residence of confirmed cases
CASES	Number of confirmed cases (combinations with zero cases are not shown)

## COVID19BE\_CASES\_MUNI\_CUM

### CUMULATIVE NUMBER OF CONFIRMED CASES BY MUNICIPALITY

Variable	Definition
NIS5	NIS-code of residence of confirmed cases (5 digits)
TX_DESCR_NL	Municipality of residence of confirmed cases (Dutch name)
TX_DESCR_FR	Municipality of residence of confirmed cases (French name)
TX_ADM_DSTR_DESCR_NL	Administrative district of residence of confirmed cases (Dutch name)
TX_ADM_DSTR_DESCR_FR	Administrative district of residence of confirmed cases (French name)
PROVINCE	Province of residence of confirmed cases (including Brussels)
REGION	Region of residence of confirmed cases
CASES	Cumulative number of confirmed cases (combinations with zero cases are not shown)

## COVID19BE\_HOSP

### HOSPITALISATIONS BY DATE AND PROVINCE

Variable	Definition
DATE	Date
PROVINCE	Province of reporting hospitals (including Brussels)
REGION	Region of reporting hospitals
NR_REPORTING	Number of hospitals reporting
TOTAL_IN	Total number of lab-confirmed hospitalized COVID-19 patients at the moment of reporting, including ICU (prevalence)
TOTAL_IN_ICU	Total number of lab-confirmed hospitalized COVID-19 patients in ICU at the moment of reporting (prevalence)
TOTAL_IN_RESP	Total number of lab-confirmed hospitalized COVID-19 patients under respiratory support at the moment of reporting (prevalence)
TOTAL_IN_ECMO	Total number of lab-confirmed hospitalized COVID-19 patients on ECMO at the moment of reporting (prevalence)
NEW_IN	Number of new lab-confirmed COVID-19 patients in the last 24h (incidence), not referred from another hospital. This number excludes the patients that were admitted to the hospital for other reasons but tested positive for COVID-19 in a screening context.
NEW_OUT	Number of new lab-confirmed hospital discharges (alive) of COVID-19 patients in the last 24h (incidence), not referred to another hospital

## COVID19BE\_MORT

### DEATHS BY DATE, REGION, AGE AND SEX

Variable	Definition
DATE	Date of death
REGION	Region of death
AGEGROUP	Age group of deaths
SEX	Sex of deaths
DEATHS	Number of deaths (combinations with zero deaths are not shown)

## COVID19BE\_TESTS

### NUMBER OF PERFORMED AND POSITIVE TESTS BY PROVINCE AND DATE

Variable	Definition
DATE	Date of performed tests (date of laboratory diagnosis, or when not available, date of sampling is used)
PROVINCE	Province of residence of tested individuals (including Brussels)
REGION	Region of residence of tested individuals
TESTS_ALL	Total number of performed tests
TESTS_ALL_POS	Total number of positive tests

## COVID19BE\_VACC

### NUMBER OF ADMINISTERED VACCINES BY DATE, REGION, AGE, SEX, BRAND, AND DOSE

Variable	Definition
DATE	Date of administration of the vaccine
REGION	Region of residence of people receiving the vaccine (Ostbelgien numbers are specified and excluded from Wallonia totals)
AGEGROUP	Age group of people receiving the vaccine
SEX	Sex of people receiving the vaccine
BRAND	Vaccine brands (vaccines that are normally not used in Belgium but that have been approved by a national regulatory authority in Europe or included in the World Health Organization's Emergency Use listing are grouped under the brand label "Other")
DOSE	Dose identifier (for vaccines requiring 2 doses: A for first dose, B for second dose; C for vaccine requiring only 1 dose; E for extra dose of vaccine administered since the 9 <sup>th</sup> of September 2021)
COUNT	Number of people receiving the vaccine (combinations with 0 vaccination are not shown)

## COVID19BE\_VACC\_MUNI\_CUM

### CUMULATIVE NUMBER OF ADMINISTERED VACCINES BY WEEK, MUNICIPALITY, AGE, AND DOSE

Variable	Definition
YEAR_WEEK	Week (Monday to Sunday) including all vaccines that were administered by the end of that week and registered in Vaccinnet+
NIS5	NIS-code (municipality) of residence of people receiving the vaccine (5 digits)
AGEGROUP	Age group of people receiving the vaccine
DOSE	Dose identifier (for vaccines requiring 2 doses: A for first dose, B for second dose; C for vaccine requiring only 1 dose)
CUMUL	Cumulative number of people receiving the vaccine (combinations with less than 10 vaccinations are indicated with "<10", combinations with 0 vaccination are not shown)

## COVID19BE\_NH

### CONFIRMED CASE, HOSPITALISATION AND DEATH RATES AMONG NURSING HOME RESIDENTS BY WEEK AND REGION/COMMUNITY

Variable	Definition
YEAR_WEEK	Week (Monday to Sunday)
REGION	Region/community of nursing home location (Brussels, Flanders, Wallonia, German Speaking Community)
CASES_PER_100 <sup>1</sup>	<b>Percentage</b> of new <b>confirmed</b> COVID-19 cases among nursing home residents per week. The denominator is the number of residents of the nursing homes that reported (a nominator) at least once that week. If the nursing home reported more than once, the median of that week was used.
NEW_IN_PER_100 <sup>1</sup>	<b>Percentage</b> of new hospitalisations due to COVID-19 among nursing home residents per week. The denominator is the number of residents of the nursing homes that reported (a nominator) at least once that week. If the nursing home reported more than once, the median of that week was used.
DEATHS_PER_100 <sup>2</sup>	<b>Percentage</b> of deaths due to COVID-19 (possible, confirmed and radiologically confirmed) among nursing home residents (all places of death combined) per week. The denominator is the number of residents of the nursing homes that reported at least once that week. If the nursing home reported more than once, the median was used. Small additional corrections were needed to preserve realistic denominators on a weekly basis.

<sup>1</sup> The number of cases and the number of hospitalizations were reported by the nursing homes themselves in an aggregated way. The date of reporting by the nursing home has been used as the date to present the case/hospitalization. As testing was lacking in these institutions in the beginning of the pandemic and not all nursing homes participate, are these numbers NOT exhaustive! The number of cases/hospitalizations since week 20 (11 May 2020), before this date incidence data was not available in all regions/communities.

<sup>2</sup> The number of deaths represents all nursing home residents who died in all possible locations (the nursing home, the hospital, at home). In order to do so, different datasets were combined with the data reported by the nursing homes and hospitals. These numbers should be seen as preliminary, as we continuously work on a better validation of the data.

# COVID19BE OPEN DATA

## CHANGES IN REPORTING

### COVID19BE\_CASES

Date	Change in definition
11/03/2020	Modification of screening policy: only cases requiring hospitalization, and healthcare professionals with fever are tested
28/03/2020	Receipt of retrospective data from a new laboratory performing COVID-19 tests; this led to an increase in reported cases in Wallonia.
28/03/2020	Modification of screening policy: the first cases (up to a maximum of 5 cases) of a cluster in a residential group, which meet the case definition, are now also tested.

### COVID19BE\_HOSP

Date	Change in definition
28/04/2020	Given the enlarged test indications since 22/04/2020 (all patients admitted to the hospital can be tested, regardless of the reason for admission) and given the gradual return to normal hospital activities, <b>the new lab-confirmed admissions are now subdivided according to pathology</b> , i.e. COVID-19 lab-confirmed patients admitted to the hospital because of COVID-19, and COVID-19 lab-confirmed patients admitted to the hospital because of another pathology but who tested positive within a screening context. The latter are <u>not</u> included in the variable <b>NEW_IN</b> .
11/02/2021	On 11/02/2021 there has been a correction of a systematic underreporting of the number of new patients ( <b>NEW_IN</b> ) and discharges ( <b>NEW_OUT</b> ) by some of the hospitals, throughout the entire time series to date. More information in the following document in <a href="#">NL</a> or <a href="#">FR</a> .

### COVID19BE\_MORT

Date	Change in definition
24/03/2020	Mortality statistics provided by the regional authorities are now complemented with mortality statistics provided directly by the hospitals; doubles are removed.
31/03/2020	Inclusion of both confirmed and suspected COVID-19 deaths.
26/08/2020	Inclusion of missing individual data on age, sex and date of death in Flemish nursing homes retrospectively collected for the period of 18/03/20 until 02/06/20. More information on this update you can find here ( <a href="#">NL/FR</a> )

## COVID19BE\_VACC & COVID19BE\_VACC\_MUNI\_CUM

Date	Change in definition
08/06/2021	Change in reference date for age calculation: age of vaccinated people is now age on the 1st of January 2021. Age was previously calculated based on the date of vaccine administration. This impacts the repartition of vaccinated people by age groups.
23/06/2021	Since the 23 <sup>rd</sup> of June, doses administered abroad to Belgian residents or in the context of a clinical trial can be registered in the Vaccinnet+ registry. This may include vaccine brands that are normally not used in Belgium. Such vaccine brands that have been approved by a national regulatory authority in Europe or included in the World Health Organization's Emergency Use listing are grouped under the brand label "Other".
22/09/2021	Add category "E" in the DOSE variable of the COVID19BE_VACC dataset for extra doses of mRNA vaccines (Pfizer/BioNTech or Moderna) administered since the 9 <sup>th</sup> of September 2021. Only third doses of mRNA vaccine after a second dose of a two doses vaccines are currently considered as extra doses.