



# Coronavirus Disease 2019 (COVID-19) Daily Situation Report of the Robert Koch Institute

08/04/2020 - UPDATED STATUS FOR GERMANY

Confirmed cases	Deaths	Deaths (%)	Recovered
<b>103,228</b> (+4,003*)	<b>1,861</b> (+ 254*)	<b>1.8%</b>	<b>Ca. 46,300**</b>

– Changes since the last report are marked *blue* in the text –

\*Change from previous day; \*\*Estimation

## Summary (as of 08/04/2020, 12:00 AM)

- In total, **103,228** COVID-19 cases and **1,861** deaths due to COVID-19 have been electronically reported to the Robert Koch Institute in Germany.
- All 16 federal states are affected. The incidence (cases per 100,000) of COVID-19 is highest in Bavaria (**211**), Baden-Wuerttemberg (**187**) and Hamburg (**172**).
- Most cases (70%) are between 15 and 59 years old; men (**52%**) and women (**48%**) are *almost* equally affected.
- **86%** of deaths, but only **16%** of all cases, occurred in persons aged 70 years or older.
- Reports on COVID-19 related outbreaks in nursing homes and hospitals are increasing. In some of these outbreaks, the number of deaths is relatively high.
- As of March 23/2020, gatherings of more than 2 persons (with the exception of families and household members) were banned in all states. Restaurants and businesses concerned with body care were closed.

# Epidemiological Situation in Germany

## Geographical distribution of cases

Epidemiological analyses are based on validated cases notified electronically to RKI according to the Protection Against Infection Law (Data closure: 12:00 AM daily).

Since January 2020, a total of **103,228 (+4,003)** laboratory-confirmed cases of coronavirus disease 2019 (COVID-19) have been electronically reported to and validated at the RKI, including **1,861** deaths (see Table 1 and Figure 1). In addition, diagnosis is ongoing for suspected cases in several federal states.

Information on confirmed cases are also available on the RKI website at

[https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\\_Coronavirus/Fallzahlen.html](https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Fallzahlen.html) and <https://corona.rki.de>

Table 1: Number and cumulative incidence (per 100,000 population) of notified laboratory-confirmed COVID-19 cases and deaths per federal state, Germany (08/04/2020, 12:00 AM)

Federal State	Total Number of cases	Number of new cases	Cases/100,000 pop.	Number of deaths
Baden-Wuerttemberg	20,680	539	187	464
Bavaria	27,564	1,401	211	564
Berlin	4,028	183	107	32
Brandenburg	1,472	88	59	22
Bremen	424	25	62	10
Hamburg	3,165	106	172	23
Hesse	4,965	128	79	84
Mecklenburg-Western Pomerania	555	24	34	11
Lower Saxony	6,385	185	80	121
North Rhine-Westphalia	20,929	709	117	348
Rhineland-Palatinate	4,148	156	102	45
Saarland	1,637	105	165	23
Saxony	3,144	147	77	50
Saxony-Anhalt	1,020	33	46	16
Schleswig-Holstein	1,827	97	63	28
Thuringia	1,285	77	60	20
<b>Total</b>	<b>103,228</b>	<b>4,003</b>	<b>124</b>	<b>1,861</b>

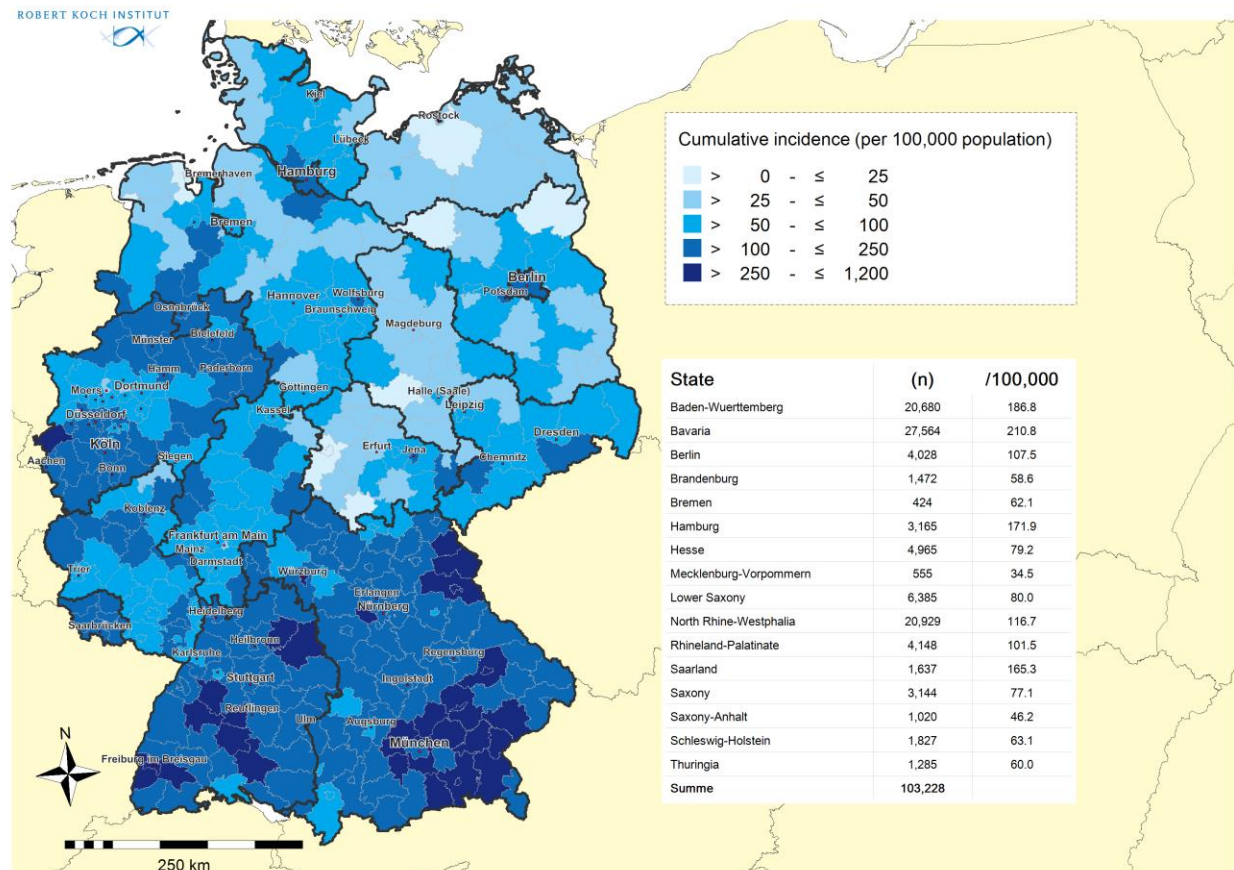


Figure 1: Number and cumulative incidence (per 100,000 population) of the 103,228 electronically reported COVID-19 cases in Germany by county and federal state (08/04/2020, 12:00 AM).

Please see the COVID-19 dashboard (<https://corona.rki.de/>) for information on number of COVID-19 cases by county (local health authority).

### Distribution of cases over time

COVID-19 cases were first notified in Germany in January 2020. In 39,928 cases, onset of symptoms is unknown and therefore date of reporting is shown (see Figure 2).

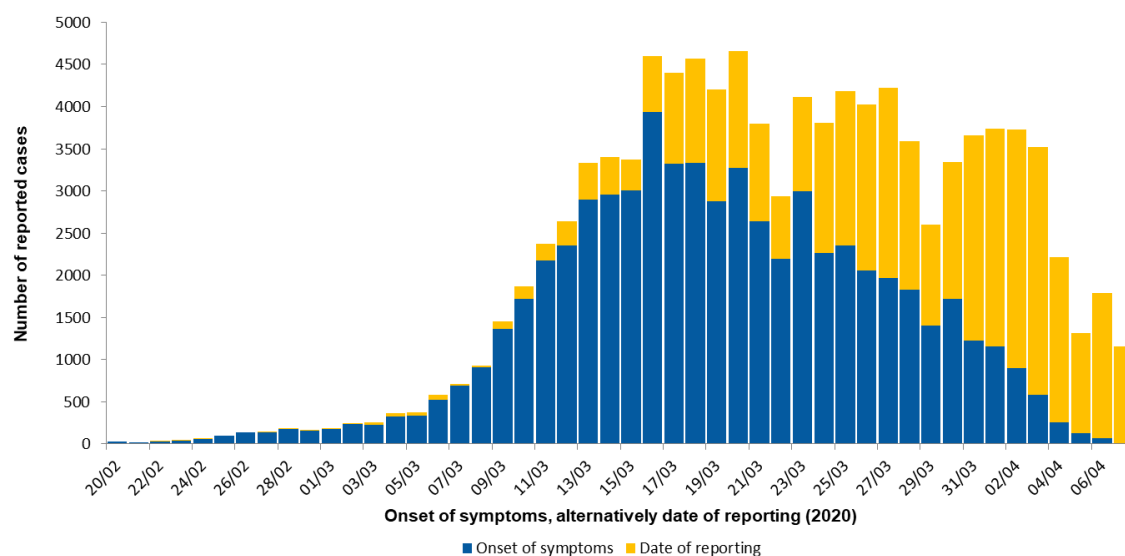


Figure 2: Number of electronically reported COVID-19 cases in Germany by date of symptom onset and alternatively by date of reporting from 20/02/2020 (08/04/2020, 12:00 AM)

Note: The report is a snapshot and is continuously updated.

## Demographic distribution of cases

Of reported cases, 52% are male and 48% are female. Among notified cases, there are 804 children under 5 years of age, 2,020 children aged 5 to 14 years, 71,793 persons aged 15 to 59 years, 19,935 aged 60 to 79 years and 8,475 persons aged 80 years and older (see Figure 3). The age of 201 notified cases is unknown. The median age of cases is 49 years.

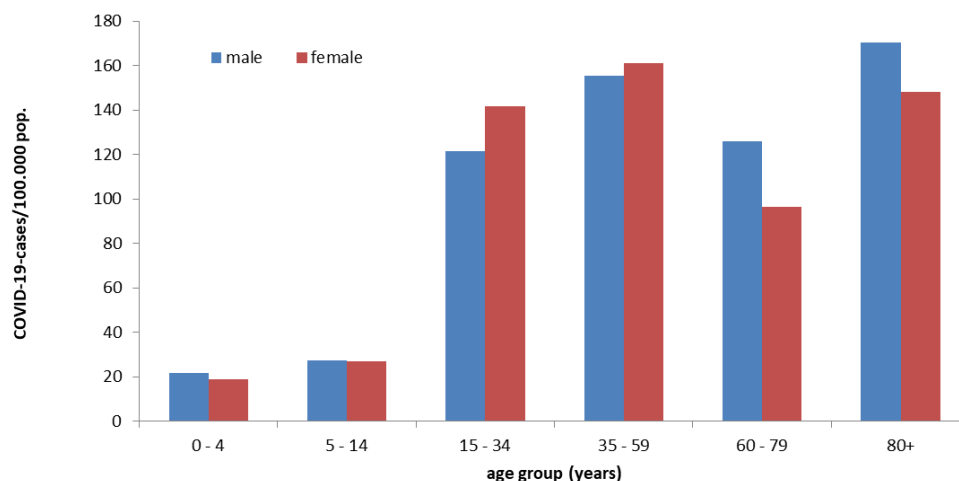


Figure 3: Electronically reported COVID-19 cases/100,000 population in Germany by age group and sex (n=102,653) for cases with information available (08/04/2020, 12:00 AM)

## Clinical aspects

Information on symptoms is available for 77,538 of the notified cases. The most common symptoms are cough (52%), fever (42%) and rhinorrhoea (22%). Pneumonia was reported in 1,779 cases (2%). Hospitalisation was reported for 11,477 (15%) of 77,571 COVID-19 cases with information on hospitalisation available.

Approximately 46,300 persons are estimated to have recovered from their COVID-19 infection. The algorithm to estimate the number of recoveries has been adapted. It now includes cases with and without known date of onset.

The 1,861 COVID-19 related deaths reported in Germany concerned 1,151 (62%) men and 706 (38%) women. The median age was 82 years and the range 28 to 105 years. Of all deaths, 1,607 (86%) were in persons 70 years or older, but only 16% of all cases were in this age group. Reports on COVID-19 related outbreaks in nursing homes are increasing. In some of these outbreaks, the number of deaths is relatively high.

Table 2: Number of COVID-19 cases notified as having died by age group and sex (available for 1,857 of the 1,861 deaths; 08/04/2020, 12:00 AM)

Sex	Age groups (years)				
	<60	60 - 69	70 - 79	80 - 89	>=90
male	67	117	325	514	128
female	20	49	129	348	160

## Estimation of the reproduction number ( $R_0$ )

The reproduction number,  $R_0$ , is the mean number of persons infected by a case.  $R_0$  can only be estimated and not directly extracted from the notification system. The current estimate is  $R_0 = 1.2$  (95% confidence interval: 0.9-1.6) and is based on current electronically notified cases (08/04/2020 12:00 AM) and an assumed mean generation time of 4 days. Cases with disease onset on the preceding 3 days were

excluded from the estimation as their low number due to incomplete reporting would lead to an unstable estimate.

## Assessment by the RKI

At the global and the national level, the situation is very dynamic and must be taken seriously. Severe and fatal courses occur in some cases. The number of cases, hospitalisations and fatalities in Germany continues to increase. The RKI currently assesses the risk to the health of the German population overall as **high** and as **very high** for risk groups. The probability of serious disease progression increases with increasing age and underlying illnesses. The risk of disease varies from region to region. The burden on the health care system depends on the geographical and age distribution of cases, health care capacity and initiation of containment measures (isolation, quarantine, social distancing etc.), and may be very high in some geographical regions. This assessment may change on short notice as a result of new findings.

## Measures taken by Germany

### International risk areas

- The following countries and regions are classified as international risk areas (31/03/2020) ([https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\\_Coronavirus/Risikogebiete.html](https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Risikogebiete.html)):
  - Austria
  - Egypt
  - France
  - Iran
  - Italy
  - Netherlands
  - Spain
  - Switzerland
  - South Korea: the city of Daegu and the province of Gyeongsangbuk-do (North-Gyeongsang)
  - United Kingdom of Great Britain and Northern Ireland
  - United States of America

Due to pandemic spread, there is a global risk of acquiring COVID-19. Due to differences in surveillance systems, test strategies and reporting delays, the risk of infection cannot always be related to reported numbers. Therefore, all persons entering Germany are required to remain in quarantine for 14 days.

## Other measures

- All arriving travellers in Germany are to remain in quarantine for 14 days: <https://www.bundesregierung.de/breg-de/themen/coronavirus/neue-einreiseregeln-1739634>
- RKI teams are currently supporting outbreak containment measures with a focus on outbreaks in retirement and health care homes as well as hospitals in several federal states.
- Outbreaks are ongoing in many districts, some with high case numbers. Data on current disease activity can be found on the dashboard <https://corona.rki.de/> and in the daily situation reports.
- A new federal law was implemented on 28/03/2020 for the protection of the public in the event of epidemic situations, granting the federal government additional competencies for the control of epidemics. <https://www.bundesgesundheitsministerium.de/presse/pressemitteilungen/2020/1-quartal/corona-gesetzespaket-im-bundesrat.html>
- As of 23/03/2020, gatherings of more than 2 persons (with the exception of families and household members) are banned in all federal states. Restaurants and businesses concerned with body care were closed. In public spaces, all persons must maintain a distance of 1.5 metres to other individuals <https://www.bundesregierung.de/breg-de/themen/coronavirus/besprechung-der-bundestkanzlerin-mit-den-regierungschefinnen-und-regierungschefs-der-laender-1733248>