



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

13/04/2020 - UPDATED STATUS FOR GERMANY

Confirmed cases	Deaths	Deaths (%)	Recovered
123,016 (+ 2,537*)	2,799 (+ 126*)	2.3%	ca. 64,300**

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

*Change from previous day; **Estimate

Summary (as of 13/04/2020, 12:00 AM)

- In total, **123,016** COVID-19 cases and **2,799** 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 (**252**), Baden-Wuerttemberg (**222**), Saarland (**210**) and Hamburg (**205**).
- Most cases (**68%**) are between 15 and 59 years old; men (**48%**) and women (**52%**) are almost equally affected.
- 86% of deaths, but only 17% 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 10/04/2020 countries and regions are not longer classified as international risk areas.

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 **123,016 (+2,537)** laboratory-confirmed cases of coronavirus disease 2019 (COVID-19) have been electronically reported to and validated at the RKI, including **2,799** deaths (see Table 1 and Figure 1). **Delays in cases reporting and data transmission may occur over the Easter Holiday.** 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 and <https://corona.rki.de>

Federal State	Total Number of cases	Number of new cases	Cases/100,000 pop.	Number of deaths
Baden-Wuerttemberg	24,570	492	222	677
Bavaria	33,015	733	252	820
Berlin	4,601	34	123	51
Brandenburg	1,880	23	75	38
Bremen	486	6	71	17
Hamburg	3,770	28	205	56
Hesse	6,114	255	98	135
Mecklenburg-Western Pomerania	618	13	38	11
Lower Saxony	7,723	121	97	201
North Rhine-Westphalia	24,883	616	139	518
Rhineland-Palatinate	4,810	76	118	68
Saarland	2,079	21	210	44
Saxony	3,655	55	90	68
Saxony-Anhalt	1,193	27	54	24
Schleswig-Holstein	2,134	16	74	44
Thuringia	1,485	21	69	27
Total	123,016	2,537	148	2,799

Table 1: Number and cumulative incidence (per 100,000 population) of notified laboratory-confirmed COVID-19 cases and deaths per federal state, Germany (13/04/2020, 12:00 AM).

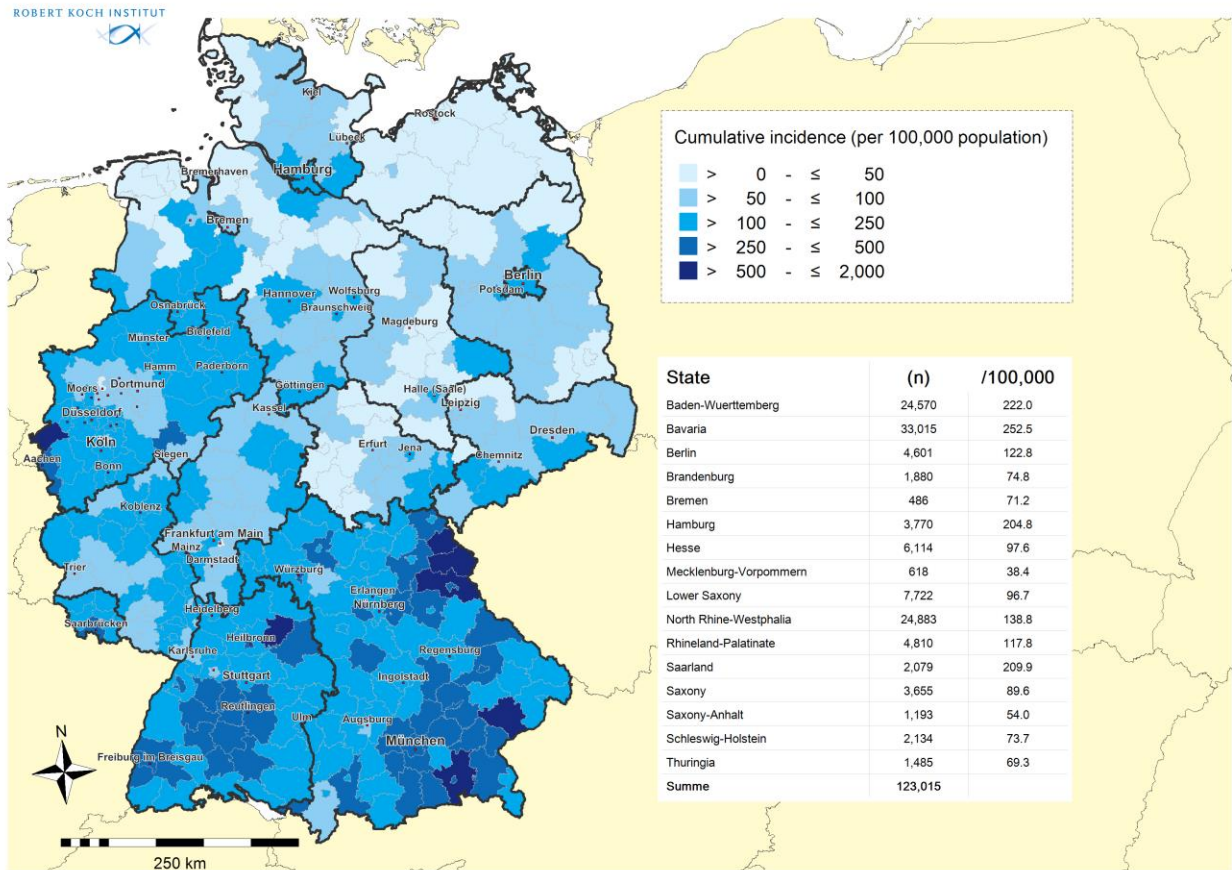


Figure 1: Number and cumulative incidence (per 100,000 population) of the 123,015 electronically reported COVID-19 cases in Germany by county and federal state (13/04/2020, 12:00 AM).

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 46,095 cases, onset of symptoms is unknown and therefore date of reporting is shown (see Figure 2).

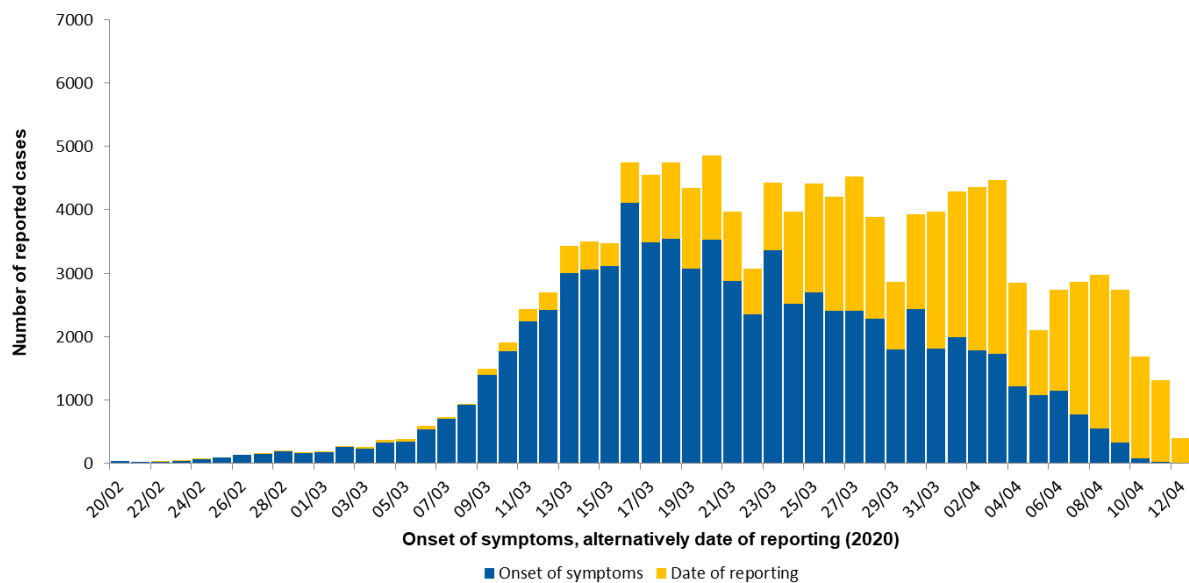


Figure 2: Number of electronically reported COVID-19 cases in Germany by date of symptom onset and alternatively by date of reporting from 20/02/2020 (13/04/2020, 12:00 AM)

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

Demographic distribution of cases

Of reported cases, 49% are male and 51% are female. Among notified cases, 965 were children under 5 years of age, 2,409 children aged 5 to 14 years, 84,001 persons aged 15 to 59 years, 23,795 persons aged 60 to 79 years and 11,645 persons aged 80 years and older (see Figure 3). The age of 201 notified cases is unknown. The median age of cases is 50 years.

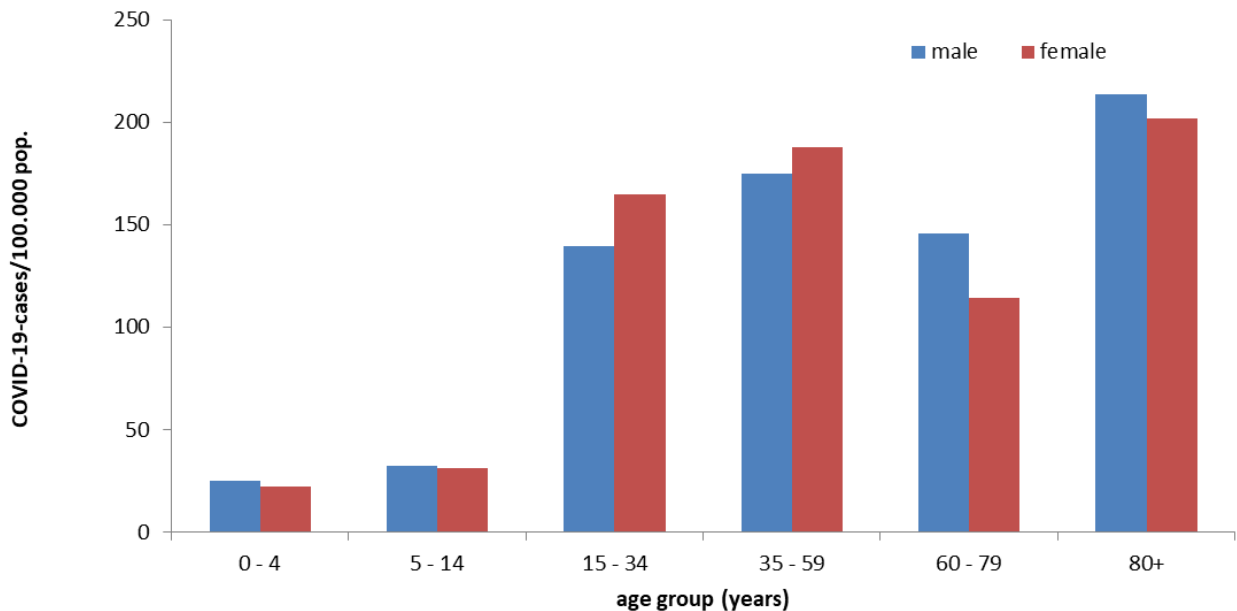


Figure 3: Electronically reported COVID-19 cases/100,000 population in Germany by age group and sex (n=122,415) for cases with information available (13/04/2020, 12:00 AM)

Clinical aspects

Information on symptoms is available for 94,574 of the notified cases. The most common symptoms are cough (51%), fever (42%) and rhinorrhoea (22%). Pneumonia was reported in 2,242 cases (2%).

Hospitalisation was reported for 14,554 (15%) of 94,276 COVID-19 cases with information on hospitalisation available.

Approximately 64,300 persons are estimated to have recovered from their COVID-19 infection. As the exact date of recovery is unknown in most cases, an algorithm was developed to estimate the number of recovered cases.

The 2,799 COVID-19 related deaths reported in Germany concerned 1,659 (59%) men and 1,135 (41%) women (sex was unknown in 5 cases, age was unknown in 3 cases). The median age was 82 years. Of all deaths, 2,415 (86%) were in persons 70 years or older, but only 17% 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.

Sex	Age groups (years)				
	<60	60 - 69	70 - 79	80 - 89	≥90
male	101	181	462	725	189
female	33	65	214	554	269

Table 2: Number of COVID-19 cases notified as having died by age group and sex (available for 2,793 of the 2,799 deaths; 13/04/2020, 12:00 AM)

SARS-CoV-2 infections among staff working in medical facilities

Of notified cases with a SARS-CoV-2 infection, 5,713 were reported among staff working in medical facilities as defined by §23 of the German Protection Against Infection law (IfSG), such as hospitals, outpatient clinics and practices, dialysis clinics or outpatient nursing services. Among these 5,713 cases, 72% were female and 28% male. The median age was 42 years.

Estimation of the reproduction number (R)

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 $R= 1.2$ (95% confidence interval: 1.0-1.6) and is based on electronically notified cases (12/04/2020 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. For more details on the methodology see Epid. Bull. 17 | 2020 Online vorab: 9. April 2020 https://www.rki.de/DE/Content/Infekt/EpidBull/Archiv/2020/Ausgaben/17_20_SARS-CoV2_vorab.pdf?__blob=publicationFile

DIVI intensive care register¹

A registry of the German Interdisciplinary Association for Intensive and Emergency Medicine (DIVI), the RKI and the German Hospital Federation (DKG) was set up to document the capacities for intensive care as well as the number of COVID-19 cases treated in participating hospitals: <https://www.intensivregister.de/#/intensivregister>.

As of 13/04/2020, 766 hospitals or departments reported to DIV I (+14 since 12/04/2020) to the registry. Migration of the registry to a new server has led to reporting delays, thus comparisons with data prior to 03/04/2020 are not meaningful. Currently, likely fewer than half of all ICU beds in Germany are captured by the registry. A total of 19,820 intensive care beds were registered, of which 11,513 (58%) are occupied and 8,307 beds are currently available (Table 3).

	Number of patients	Percentage	Changes to previous day*
Currently in ICU	2,447		+42
- of these: mechanically ventilated	1,841	75%	-18
Discharged from ICU	3,253		+275
- of these: deaths	952	29%	+88

Table 3: COVID-19 patients requiring intensive care (ICU) recorded in the DIVI register (13/04/2020, 8:15 am)

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

As of 10/04/2020 countries and regions are not longer classified as international risk areas. Due to pandemic spread, there is a global risk of acquiring COVID-19. In a considerable number of countries there are outbreaks with sometimes large numbers of cases; the exact numbers of cases in other countries are not known. Therefore there is a risk of transmission in Germany as well as in many other, not always well-defined regions worldwide.

All arriving travellers in Germany are to remain in quarantine for 14 days:

<https://www.bundesregierung.de/breg-de/themen/coronavirus/neue-einreiseregeln-1739634> (in German)

Other measures

- 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.
- 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.
- 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> (in German)
- 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-bundeskanzlerin-mit-den-regierungschefinnen-und-regierungschefs-der-laender-1733248> (in German)