

# Why are so few Germans dying from the coronavirus? Experts wonder

“I would be happy if we can come back in two months’ time and still be able to talk about what Germany did right,” one expert said.



A medical worker administers a coronavirus test on a patient at a mobile testing center in Baden-Wuerttemberg, Germany, on March 18, 2020. Uwe Anspach / dpa / Getty Images file.

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MAINZ, Germany — While countries around the globe struggle to cope with the death, panic, restrictions and economic dislocation wrought by the coronavirus pandemic, a different picture has emerged in Germany.

Experts are scrambling to figure out why the country has around 34,000 confirmed infections — the fifth most in the world — but far fewer deaths than

other countries.

There have been 172 recorded coronavirus deaths in Germany. That's just 0.5 percent of the total cases, higher than for the seasonal flu but drastically lower than Italy's soaring case death rate of almost 10 percent.

In fact, no other major country comes close to Germany. By comparison, the United States has about 55,000 recorded cases, and around 1.4 percent of those, about 800 people as of Wednesday, have died.

Experts have a number of theories about why Germany appears to be such an outlier, but they are cautious about holding up the country as an example during what is still likely to be the early stages of the pandemic.

"I would be happy if we can come back in two months' time and still be able to talk about what Germany did right," said Hajo Zeeb, a professor at the Leibniz Institute for Prevention Research and Epidemiology. "But right now it's simply too early to say that."

What is known is that Germany, with 82 million people, has recorded more cases per capita than Iran, France and the U.S.

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But in contrast to countries like Italy and the U.K. and large parts of the U.S., it has not shut down daily life, although it has banned public gatherings of more than two people. Its chancellor, Angela Merkel, tested negative but has isolated herself awaiting further results after one of her doctors became infected.

Germany is also better equipped than most countries when it comes to health care. It has 28,000 intensive care beds, considerably higher than the European average. Because it was not hit as early as Italy and elsewhere, it has also had time to prepare.



German Chancellor Angela Merkel arrives at the Chancellery in Berlin to give a statement on the coronavirus on Sunday, March 22, 2020. Michel Kappeler / Pool via Reuters

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But many experts believe that the main reason behind its relatively low death rate is the large number of tests it has been able to conduct.

The government has not released official figures, but it says it has the capacity to test about 160,000 people every week.

As well as potentially helping identify and slow the spread of the contagion, widespread tests are likely to detect more mild cases that are going unrecorded in other countries, according to Dr. Mike Ryan, health emergencies director at the World Health Organization.

“They’ve had a very aggressive testing process,” Ryan said at a briefing last week. “So the number of tests and the number of confirmed cases may be detecting more mild cases as a proportion of overall cases — that’s an important

determination.”



A coronavirus test center in Munich, Germany, on Monday, March 23, 2020. Matthias Schrader / AP

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The thinking is that other countries may be catching only the more severe cases of COVID-19, the disease caused by the virus, a larger proportion of whom are likely to die. Germany’s death rate is effectively watered down, the theory goes because its figure takes account of the many mild cases missed by other nations.

This question drives at the heart of a huge unknown in the coronavirus crisis: How many people have been infected but don’t know it? Getting closer to that figure will give experts and officials a better idea how deadly the outbreak really is — more like Germany or more like Italy?

“The numbers we’re getting from the other countries have probably overestimated the infection fatality rate, so that’s Italy, Spain, France, the U.K., and the U.S. because there is not enough testing,” said Miguel Hernan, a professor of epidemiology at Harvard University.

“Having said that, the 0.4 percent we’re seeing in Germany is strikingly low when you compare it with other countries with similar health care systems and even more testing, like South Korea,” he added.

Despite its large number of tests, experts still “believe there is a lot of underdiagnosis also in Germany,” according to Sabine Gabrysch, a professor of epidemiology and biostatistics at the Heidelberg Institute of Global Health. “We mostly only test those who had contact with confirmed cases or traveled to risk areas.”

The reason experts are cautious about lauding Germany is that many tests were conducted on patients with mild or even asymptomatic cases — people who may deteriorate in the coming days and weeks.

“Our epidemic is still earlier than South Korea’s and Italy’s,” Gabrysch said. “The severe cases and deaths will still go up in Germany over the next few days until we hopefully see an effect of the control policies put in place.”

The data may be skewed even further because of how Germany and Italy conduct post-mortem examinations.

“The Italians test deceased persons who had specific symptoms and bring them into the statistics — we in Germany do not,” said Dietrich Rothenbacher, a professor at the Institute for Epidemiology and Medical Biometry at Ulm University.

“It’s a complex scenario,” he said. Rothenbacher feels strongly that before any solid comparison can be made between countries, “the first step would be to obtain comparable numbers.”

Another possible factor is that most of Germany’s cases have been among younger people. The median age of those infected is 47, compared to 63 in Italy.

It appears that Germany’s high number of cases was initially fueled by younger people returning from skiing holidays in neighboring Austria and Italy, the country’s epidemiologists say. That seems to have spread further as those people attended a series of carnival celebrations held in many German towns and cities in February.

That’s in contrast to Italy, where some researchers think the high number of

younger people living with elderly relatives may have put those more vulnerable to the infection at greater risk.

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Nevertheless, there is still the fear in Germany that if the outbreak does start to spread among older circles, the country could also see a spike in deaths. Already, one nursing home in Würzburg, a city in Bavaria, has had 37 residents test positive and nine of them die.

The nursing home's first case was reported on March 8, when the number of confirmed cases was about 1,000 in Germany. Since then, 33 of its 58 staff members have tested positive, and officials are working to find out how the infection found its way inside.

"We are doing our best," Michael Schwab, a doctor at the nursing home, said in a statement. "Even when the high risk of infection is one of our biggest challenges."

And finally, in a complex, fast-moving situation that's still likely in its infancy, there are few experts who do not discount pure chance when it comes to Germany's successes so far.

"I think what we're seeing is a mix of factors," said Zeeb of the Leibniz Institute. "We have a well-prepared health service, but also we have been lucky."

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*Carlo Angerer reported from Mainz, and Alexander Smith reported from London.*

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