

Coronavirus: 10 reasons you shouldn't panic

March 9 2020, by Ignacio López-Goñi



Credit: AI-generated image ([disclaimer](#))

Regardless of whether we classify the new coronavirus as a pandemic, it is a serious issue. In less than two months, it has spread over several continents. Pandemic means sustained and continuous transmission of the disease, simultaneously in more than three different geographical regions. Pandemic does not refer to the lethality of a virus but to its transmissibility and geographical extension.

We certainly have a pandemic of fear. The entire planet's media is gripped by coronavirus. It is right that there is deep concern and mass planning for worst-case scenarios. And, of course, the repercussions move from the global health sphere into business and politics.

But it is also right that we must not panic. It would be wrong to say there is good news coming out of COVID-19, but there are causes for optimism; reasons to think there may be ways to contain and defeat the virus. And lessons to learn for the future.

1. We know what it is

The first cases of AIDS were described in June 1981 and it took more than two years to identify the virus (HIV) causing the disease. With COVID-19, the first cases of severe pneumonia were reported in China on December 31, 2019 and by January 7, the virus had already been identified. The genome was available on day 10. We already know that it is a new coronavirus from group 2B, of the same family as the SARS, which we have called SARSCoV2. The disease is called COVID-19. It is thought to be related to coronavirus of bats. Genetic analyses have confirmed that it has a recent natural origin (between the end of November and the beginning of December) and that, although viruses live by mutating, [its mutation rate may not be very high](#).

2. We know how to detect the virus

Since January 13, [a test to detect the virus](#) has been available.

3. The situation is improving in China

The strong control and isolation measures imposed by China are paying off. For several weeks now, the number of cases diagnosed every day is

decreasing. A very detailed epidemiological follow-up is being carried out in other countries; outbreaks are very specific to areas, which can allow them to be controlled more easily.

4. 80% of cases are mild

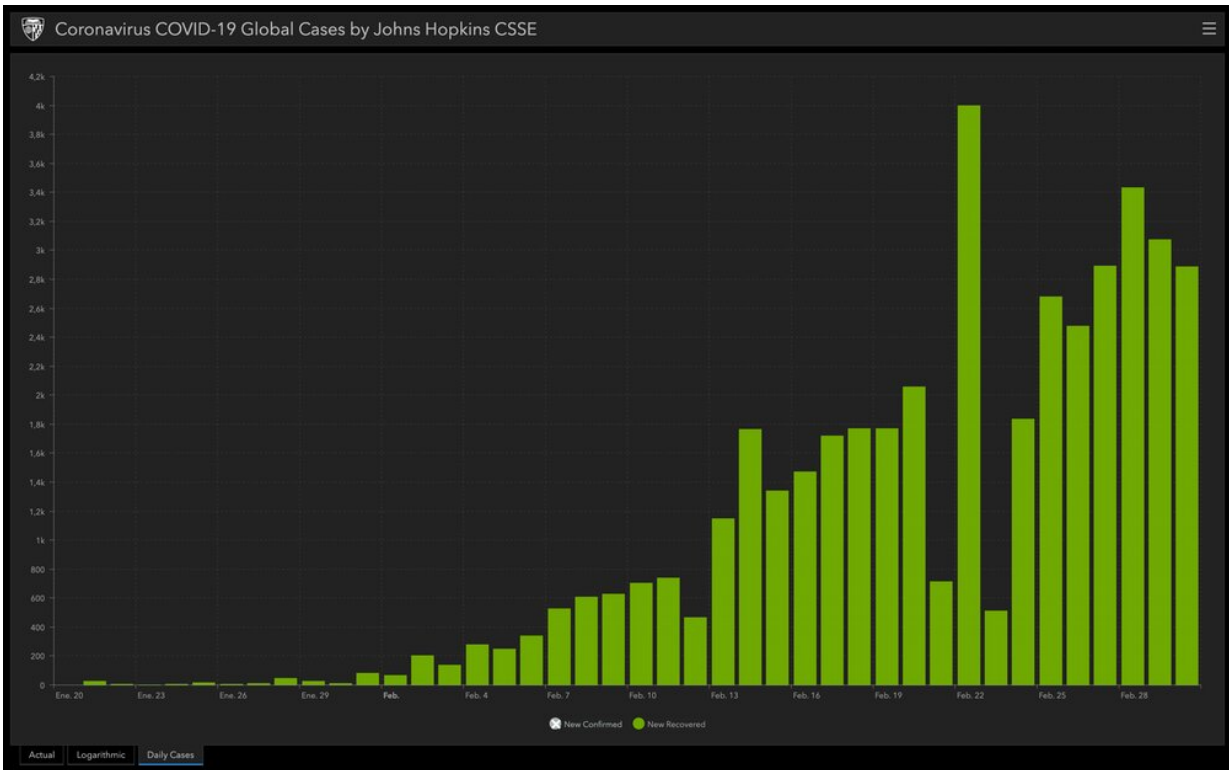
The disease causes no symptoms or is mild in 81% of cases. Of course, in the remaining 14%, it can cause severe pneumonia and in 5% it can become critical or even fatal. It is still unclear what the death rate may be. Be it could be lower than some estimates so far.

5. People heal

Much of the reported data relates to the increase in the number of confirmed cases and the number of deaths, but most infected people are cured. There are 13 times more cured cases than deaths, [and that proportion is increasing](#).

6. Symptoms appear mild in children

Only 3% of cases occur in people under 20, [and mortality under 40 is only 0.2%](#). Symptoms are so mild in children that it can go unnoticed.



Credit: [Coronavirus COVID-19 Global Cases by Johns Hopkins CSSE](#)

7. The virus can be wiped clean

The virus can be effectively inactivated from surfaces with a solution of ethanol (62-71% alcohol), hydrogen peroxide (0.5% hydrogen peroxide) or sodium hypochlorite (0.1% bleach), [in just one minute](#). Frequent handwashing with soap and water is the most effective way to avoid contagion.

8. Science is on it, globally

It is the age of international science cooperation. After just over a month, [164 articles could be accessed in PubMed on COVID19 or](#)

[SARSCov2](#), as well as [many others](#) available in repositories [of articles not yet reviewed](#). They are preliminary works on vaccines, treatments, epidemiology, genetics and phylogeny, diagnosis, clinical aspects, etc. These articles were elaborated by some 700 authors, distributed throughout the planet. It is cooperative science, shared and open. In 2003, with the SARS epidemic, it took more than a year to reach less than half that number of articles. In addition, most [scientific journals](#) have left their publications as [open access](#) on the subject of coronaviruses.

9. There are already vaccine prototypes

Our ability to design new vaccines is spectacular. There are already more than eight projects underway [seeking a vaccine](#) against the new coronavirus. There are groups that work on vaccination projects against similar viruses.

The vaccine group of the University of Queensland, in Australia, [has announced](#) that it is already working on a prototype using the technique called "molecular clamp," a novel technology. This is just one example that could allow vaccine production in record time. Prototypes may soon be tested on humans.

10. Antiviral trials are underway

Vaccines are preventive. Right now, the treatment of people who are already sick is important. There are already more than 80 clinical trials [analysing coronavirus treatments](#). These are antivirals that have been used for other infections, which are already approved and that we know are safe.

One of those that has [already been tested in humans](#) is [remdesivir](#), a

broad-spectrum antiviral still under study, which has been tested against Ebola and [SARS/MERS](#).

Another candidate is chloroquine, an antimalarial that has also been seen to have potent antiviral activity. It is known that chloroquine blocks viral infection by increasing the pH of the endosome, which is needed for the fusion of the virus with the cell, thus inhibiting its entry. It has been demonstrated that this compound [blocks the new coronavirus in vitro](#) and it is already being used in patients with [coronavirus](#) pneumonia.

Other proposed trials are based on the use of oseltamivir (which is used against the influenza virus), interferon-1b (protein with antiviral function), antisera from people who recovered or monoclonal antibodies to neutralise the [virus](#). New therapies have been proposed with inhibitory substances, such as baricitinibine, [selected by artificial intelligence](#).

The 1918 flu pandemic caused more than 25 million deaths in less than 25 weeks. Could something similar happen now? Probably not; we have never been better prepared to fight a pandemic.

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