



Source: <https://www.rki.de/covid-19-Testzahlen>

Pandemic Special

- Grasp and Understand - Lockdown

→ Lockdown – when to begin and for how long should it last?

By fall 2020 in many European countries a second wave of the pandemic started. There were worries, that too many people would need intensive care at the same time. Therefore many countries declared a second lockdown, and how long the “Lockdown light” would last, but when should it have ideally started and how long should it last?

Infobox

If an individual was infected by Covid-19, symptoms showed after a few days delay. Then a test had to be commissioned, analyzed and reported, which in itself took another couple of days. Generally speaking, the result for someone testing positive for Covid-19 were expected to appear in the statistics about 10 to 12 days after the infection.

The interpretation of this statistic is very complex, due to the data depicted being highly influencable by a number of factors. To simplify the observation of the statistic in the following task the assumption that all infected individuals appear in the statistic .



Source: <https://pixy.org/src/354/thumbs350/354115>

Grasp and Understand

During the first lockdown in spring 2020 it wasn't clear how the lockdown would affect the number of new infections. In the second lockdown the conditions were different – one had the experience of the first lockdown.

- 1) Inspect the data of your country in the first and the second wave. If there were no waves, then pick an country, that went at least through two waves. Compare the the data of the second wave with the data in the first wave. Due to fluctuations in the data during the week, only consult weekly case numbers for better clarity. If you don't want to add up all numbers you can simply approximate the maximum values of the concerned week as the weekly data.

Check: When did the lockdown in the first wave begin? When did the second lockdown begin?

- a. How long did it take until the number of new infections started to decrease in the first wave?
 - b. How quickly did the numbers decrease?
- 2) How high were the case numbers, when they began to climb at the beginning?
 - 3) What would you have suggested at which case numbers the restrictions can be loosened?
 - 4) What do you think, when would this goal have been reached?
 - 5) Check, if the decline was the way you would have prognosed it.
Check how well politics followed your suggestions.

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Sources: ¹https://experience.arcgis.com/experience/478220a4c454480e823b17327b2bf1d4/page/page_0/

