

Swiss Policy Research - Are Face Masks Effective? The Evidence

Special thanks to Swiss Policy Research for collating this data.

Their website is here - <https://swprs.org/face-masks-evidence/>

Donations to SWPRS.ORG - <https://swprs.org/donations/>

Archive - <https://archive.is/Awo5X>

Conclusion

Cloth face masks in the general population might be effective, at least in some circumstances, but there is currently little to no evidence supporting this proposition. If the coronavirus is indeed transmitted via indoor aerosols, cloth masks are unlikely to be protective. Health authorities should therefore not assume or suggest that cloth face masks will reduce the rate or risk of infection.

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Research

Studies on the effectiveness of face masks

So far, most studies found little to no evidence for the effectiveness of cloth face masks in the general population, neither as personal protective equipment nor as a source control.

1. A May 2020 meta-study on pandemic influenza published by the **US CDC** found that face masks had no effect, neither as personal protective equipment nor as a source control. ¹
2. A **Danish randomized controlled trial** with 6000 participants, published in the Annals of Internal Medicine in November 2020, found no statistically significant effect of high-quality medical face masks against SARS-CoV-2 infection in a community setting.²
3. A large randomized controlled trial with close to 8000 participants, published in October 2020 in **PLOS One**, found that face masks “did not seem to be effective against laboratory-confirmed viral respiratory infections nor against clinical respiratory infection.” ³
4. A February 2021 review by the **European CDC** found no significant evidence supporting the effectiveness of non-medical and medical face masks in the community. Furthermore, the European CDC advised against the use of FFP2/N95 masks by the general public.⁴
5. A July 2020 review by the **Oxford Centre for Evidence-Based Medicine** found that there is no evidence for the effectiveness of cloth masks against virus infection or transmission.⁵
6. A November 2020 **Cochrane review** found that face masks did not reduce influenza-like illness (ILI) cases, neither in the general population nor in health care workers.⁶
7. An April 2020 review by two US professors in respiratory and infectious disease from the **University of Illinois** concluded that face masks have no effect in everyday life, neither as self-protection nor to protect third parties (so-called source control).⁷
8. An article in the **New England Journal of Medicine** from May 2020 came to the conclusion that cloth face masks offer little to no protection in everyday life.⁸
9. A 2015 study in the British Medical Journal **BMJ Open** found that cloth masks were penetrated by 97% of particles and may increase infection risk by retaining moisture or repeated use.⁹
10. An August 2020 review by a **German professor** in virology, epidemiology and hygiene found that there is no evidence for the effectiveness of cloth face masks and that the improper daily use of masks by the public may in fact lead to an increase in infections. ¹⁰

[1] https://wwwnc.cdc.gov/eid/article/26/5/19-0994_article

Archive - <https://archive.is/PTi7D>

[2] <https://www.acpjournals.org/doi/10.7326/M20-6817>

Archive - <https://archive.is/Tajg9>

[3] <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0240287>

Archive - <https://archive.is/WpzAl>

[4] <https://www.ecdc.europa.eu/sites/default/files/documents/covid-19-face-masks-community-first-update.pdf>

Archive - <https://hexagod.net/pdfs/archive/covid-19-face-masks-community-first-update.pdf>

[5] <https://www.cebm.net/covid-19/masking-lack-of-evidence-with-politics/>

Archive - <https://archive.is/36jag>

[6] https://www.cochrane.org/CD006207/ARI_do-physical-measures-such-hand-washing-or-wearing-masks-stop-or-slow-down-spread-respiratory-viruses

Archive - <https://archive.is/lpmdd>

[7] <https://www.cidrap.umn.edu/news-perspective/2020/04/commentary-masks-all-covid-19-not-based-sound-data>

Archive - <https://archive.is/nrc6c>

[8] <https://www.nejm.org/doi/full/10.1056/NEJMp2006372>

Archive - <https://archive.is/sXfd1>

[9] <https://bmjopen.bmj.com/content/5/4/e006577>

Archive - <https://archive.is/rdlpp>

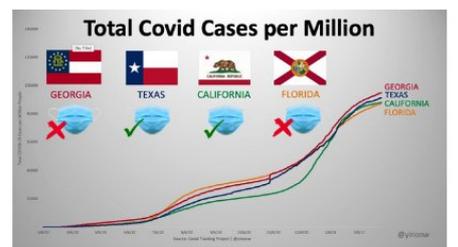
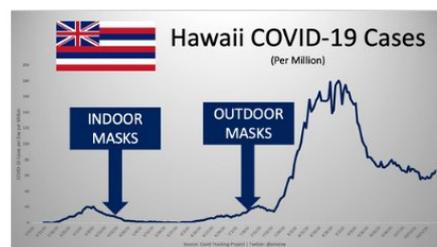
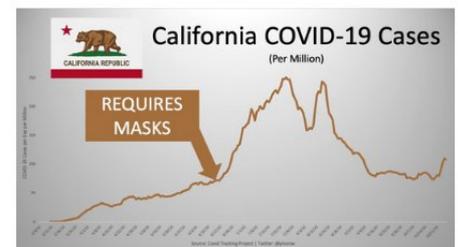
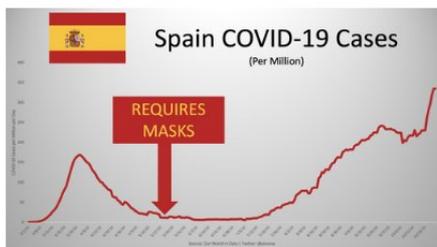
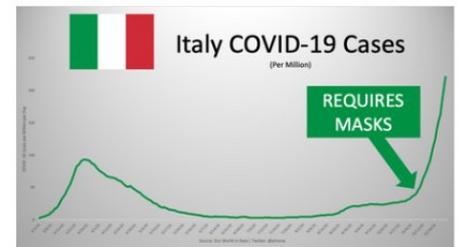
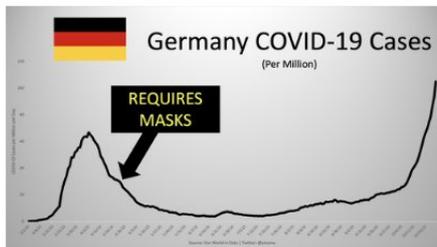
[10] <https://www.thieme-connect.com/products/ejournals/html/10.1055/a-1174-6591>

Archive - <https://archive.is/kS1NH>

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Development of cases after mask mandates

In many states, coronavirus infections strongly increased after mask mandates had been introduced. The following charts show the typical examples of Austria, Belgium, France, Germany, Ireland, Italy, Spain, the UK, California and Hawaii. Furthermore, a direct comparison between US states with and without mask mandates indicates that mask mandates have made no difference.



Mask mandates and coronavirus infections (Source: [Yinon Weiss](https://twitter.com/yinonw/status/1321177359601393664))

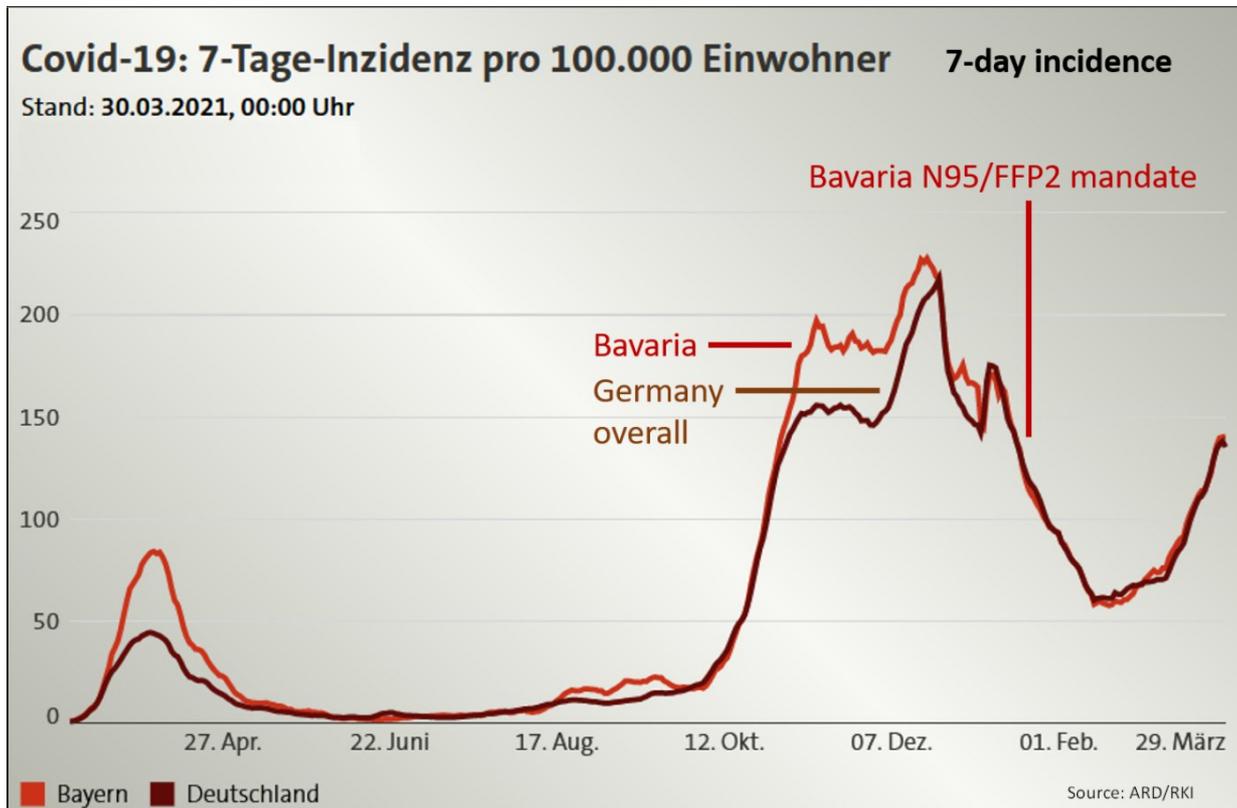
Link - <https://twitter.com/yinonw/status/1321177359601393664>

Archive - <https://archive.is/1CvdU>

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Effectiveness of N95/FFP2 mask mandates

In January 2021, the German state of Bavaria was one of the first places in the world to mandate N95/FFP2 masks in most public settings. A comparison with other German states, which required cloth or medical masks, indicates that N95/FFP2 masks made no difference.



"Covid" (the flu19) cases in Bavaria (FFP2/N95 mandate) vs. Germany overall ([ARD/RKI/DaFeid](https://www.tagesschau.de/inland/coronavirus-karte-deutschland-101.html))

Link - <https://www.tagesschau.de/inland/coronavirus-karte-deutschland-101.html>

Archive - <https://archive.is/aHGAJ>

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Additional aspects

1. There is [increasing evidence](#)¹ that the novel coronavirus is transmitted, at least in indoor settings, not only by droplets but also by **smaller aerosols**. However, due to their large pore size and poor fit, cloth masks cannot filter out aerosols (see video analysis below): over 90% of aerosols [penetrate or bypass](#)² the mask and fill a medium-sized room within minutes.
2. The **WHO** admitted to the BBC that its June 2020 [mask policy update](#)³ was due not to new evidence but ["political lobbying"](#)⁴: "We had been told by various sources WHO committee reviewing the evidence had not backed masks but they recommended them due to political lobbying. This point was put to WHO who did not deny." (D. Cohen, BBC Medical Correspondent).
3. To date, the only **randomized controlled trial (RCT)** on face masks against SARS-CoV-2 infection in a community setting found no statistically significant benefit (see above). However, three major journals [refused to publish](#)⁵ this study, delaying its publication by several months.
4. An analysis by the **US CDC** found that [85% of people](#)⁶ infected with the new coronavirus reported wearing a mask "always" (70.6%) or "often" (14.4%). Compared to the control group of uninfected people, always wearing a mask did not reduce the risk of infection.

5. Researchers from the University of Minnesota found that the **infectious dose of SARS-CoV-2** is just 300 virions (virus particles), whereas a single minute of normal speaking may generate [more than 750,000 virions](#)⁷, making cloth face masks unlikely to prevent an infection.
6. **Japan**, despite its widespread use of face masks, experienced its [most recent influenza epidemic](#)⁸ with more than 5 million people falling ill just one year ago, in January and February 2019. However, unlike SARS-CoV-2, the influenza virus is easily transmitted by children, too.
7. In the **US state of Kansas**, the 90 counties without mask mandates had lower coronavirus infection rates than the 15 counties with mask mandates. To hide this fact, the Kansas health department [tried to manipulate](#)⁹ the official statistics and data presentation.
8. Contrary to common belief, studies **in hospitals** [found that](#)¹⁰ the wearing of a medical mask by surgeons during operations [didn't reduce](#) post-operative bacterial wound infections in patients.
9. During the notorious **1918 influenza pandemic**, the use of cloth face masks among the general population was widespread and in some places mandatory, but they [made no difference](#)¹¹.
10. **Asian countries** with low covid infection rates, most of them neighboring China, benefited not from face masks but mainly from [early border closures](#)¹². This is confirmed by Scandinavian countries Norway, Finland and Denmark, which didn't introduce mask mandates but [closed borders early](#)¹³ and saw very low covid infection and death rates, too.

[1] <https://academic.oup.com/cid/advance-article/doi/10.1093/cid/ciaa939/5867798>

Archive - <https://archive.is/oyXHI>

[2] <https://bmjopen.bmj.com/content/5/4/e006577>

Archive - <https://archive.is/rdlpp>

[3] <https://swprs.org/who-mask-study-seriously-flawed/>

Archive - <https://archive.is/sgFEm>

[4] https://twitter.com/deb_cohen/status/1282244773030633473

Archive - <https://archive.is/YVJ0Y>

[5] <https://swprs.org/the-suppressed-danish-mask-study/>

Archive - <https://archive.is/7BEic>

[6] <https://www.cdc.gov/mmwr/volumes/69/wr/pdfs/mm6936a5-H.pdf#page=4>

Archive - <https://hexagod.net/pdfs/archive/mm6936a5-H.pdf>

[7] <https://www.nejm.org/doi/full/10.1056/NEJMc2030886>

Archive - <https://archive.is/8PSdy>

[8] https://www.upi.com/Top_News/World-News/2019/02/01/Millions-in-Japan-affected-as-flu-outbreak-grips-country/9191549043797/

Archive - <https://archive.is/MfFvo>

[9] <https://sentinelkmo.org/more-deception-kdhe-hid-data-to-justify-mask-mandate/>

Archive - <https://archive.is/qulGh>

[10] <https://link.springer.com/article/10.1007/BF01658736>

Archive - <https://archive.is/ALysm>

[11] <https://www.washingtonpost.com/history/2020/04/02/everyone-wore-masks-during-1918-flu-pandemic-they-were-useless/>

Archive - <https://archive.is/sD6Nb>

[12] <https://swprs.org/the-zero-covid-countries/>

Archive - <https://archive.is/41A0Z>

[13] <https://www.forbes.com/sites/davidnikel/2020/05/08/denmark-norway-relax-coronavirus-restrictions-but-borders-remain-closed/>

Archive - <https://archive.is/uXxdn>

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Risks associated with face masks

Wearing masks for a prolonged period of time is not harmless, as the following evidence shows:

1. The **WHO** warns of various [“side effects”](#)¹ such as difficulty breathing and skin rashes.
2. Tests conducted by the **University Hospital of Leipzig** in Germany [have shown that](#)² face masks significantly reduce the resilience and performance of healthy adults.
3. A **German psychological study** with about 1000 participants found [“severe psychosocial consequences”](#)³ due to the introduction of mandatory face masks in Germany.
4. The **Hamburg Environmental Institute** warned of the [inhalation of chlorine compounds](#)⁴ in polyester masks as well as problems in connection with face mask disposal.
5. The European rapid alert system **RAPEX** has already [recalled 70 mask models](#)⁵ because they did not meet EU quality standards and could lead to “serious risks”.
6. In Germany, **two 13-year-old children** [died suddenly](#)⁶ while [wearing a mask](#)⁷ for a prolonged period of time; autopsies couldn't exclude [CO2 intoxication](#)⁸ or a sudden cardiac arrest.
7. In China, **several children** who had to wear a mask during sports classes [fainted and died](#)⁹; the autopsies found a sudden cardiac arrest as the probable cause of death.
8. In the US, a **car driver** wearing an N95 (FFP2) mask [fainted and crashed](#)¹⁰ into a pole.

[1] [https://www.who.int/publications/i/item/advice-on-the-use-of-masks-in-the-community-during-home-care-and-in-healthcare-settings-in-the-context-of-the-novel-coronavirus-\(2019-ncov\)-outbreak](https://www.who.int/publications/i/item/advice-on-the-use-of-masks-in-the-community-during-home-care-and-in-healthcare-settings-in-the-context-of-the-novel-coronavirus-(2019-ncov)-outbreak)

Archive - <https://archive.is/zJqMq>

[2] <https://science.orf.at/stories/3201213/>

Archive - <https://archive.is/YrXXS>

[3] <https://corona-transition.org/der-maskenzwang-ist-verantwortlich-fur-schwere-psychische-schaden-und-die>

Archive - <https://archive.is/uV7FY>

[4] <https://corona-transition.org/maskentragen-noch-ungesunder-als-gedacht>

Archive - <https://archive.is/72YpB>

[5] <https://corona-transition.org/maskentragen-noch-ungesunder-als-gedacht>

Archive - <https://archive.is/72YpB>

[6] <https://corona-transition.org/13-jahrige-maskentragerin-stirbt>

Archive - <https://archive.is/CDQd1>

[7] <https://corona-transition.org/zweites-kind-wegen-maskentragen-gestorben>

Archive - <https://archive.is/CDQd1>

[8] <https://www.thoughtco.com/carbon-dioxide-poisoning-608396>

Archive - <https://archive.is/Tkqo7>

[9] <https://www.thatsmags.com/china/post/31100/student-deaths-lead-schools-to-adjust-rules-on-masks-while-exercising>

Archive - <https://archive.is/UZyQ4>

[10] <https://nypost.com/2020/04/24/driver-crashes-car-after-passing-out-from-wearing-n95-mask/>

Archive - <https://archive.is/aFquN>

===== (Moved to end because face diapers do nothing other than kill you) =====

Studies claiming face masks are effective

Some recent studies argued that cloth face masks are indeed effective against the (flu19) "new" coronavirus and could at least prevent the infection of other people. **However, most of these studies suffer from poor methodology and sometimes show the opposite of what they claim to show.**

Typically, these studies ignore the effect of other measures, the natural development of infection rates, changes in test activity, or they compare places with different epidemiological conditions. Studies performed in a lab or as a computer simulation often aren't applicable to the real world.

An overview:

1. A **meta-study in the journal Lancet**, commissioned by the **WHO**, [claimed that](#) masks "could" lead to a reduction in the risk of infection, but the studies considered mainly N95 respirators in a hospital setting, not cloth masks in a community setting, the strength of the evidence was reported as "low", and experts found [numerous flaws in the study](#). Professor Peter Jueni, epidemiologist at the University of Toronto, called the WHO study "[essentially useless](#)".
2. A study in the journal **PNAS** [claimed that](#) masks had led to a decrease in infections in three global hotspots (including New York City), but the study did not take into account the natural decrease in infections and other simultaneous measures. The study was so flawed that over 40 scientists recommended that the study [be withdrawn](#).
3. A **US study** [claimed that](#) US counties with mask mandates had lower Covid infection and hospitalization rates, but the authors had to withdraw their study as infections and hospitalizations increased in many of these counties shortly after the study was published.
4. A **German study** [claimed that](#) the introduction of mandatory face masks in German cities had led to a decrease in infections. But the data does not support this claim: in some cities there was no change, in others a decrease, in others an increase in infections (see graph below). The city of **Jena** was an 'exception' only because it simultaneously introduced the [strictest quarantine rules](#) in Germany, but the study did not mention this.
5. A **Canadian study** [claimed that](#) countries with mandatory masks had fewer deaths than countries without mandatory masks. But the study compared African, Latin American, Asian and Eastern European countries with very different infection rates and population structures.
6. A review by the **University of Oxford** [claimed that](#) face masks are effective, but it was based on studies about SARS-1 and in health care settings, not in community settings.

7. A review by members of the **lobby group 'Masks for All'**, published in the journal PNAS, claimed that masks are effective as a source control against aerosol transmission in the community, but the review provided no real-world evidence supporting this proposition.

Go to <https://swprs.org/face-masks-evidence/> to get these studies.

It's not worth the editor's time to bother getting these sources when we've evolved for over 100,000 years to not need a face diaper for our immune systems to work.

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Another collation of mask studies (see also) - https://hexagod.net/masks_detail_studies.html

For the hyperlinks in this paper - https://hexagod.net/masks_swprs.html