

## **Known Average Infection Times for COVID-19**

| Condition   | Average Time to<br>Infection                                 |
|---|--|
| Coughing directly into face, no mask  | Instantaneous  |
| Indoor singing/loud talking, no mask,<br>no social distancing (singing in choir)                  | 5-15 minutes   |
| Indoor singing/loud talking, no mask,<br>social distancing, poor ventilation<br>(loud restaurant) | 15-45 minutes  |
| Indoor breathing, no mask, no social<br>distance (party)  | 15-45 minutes  |
| Outdoor breathing, no mask, no social distance (watching sporting event)                          | 15-75 minutes  |
| Indoor heavy breathing, no mask,<br>good ventilation, social distancing<br>(gym)                  | Unknown, but likely 15-<br>75 minutes                        |
| Indoor breathing, no mask, social<br>distancing, poor ventilation (eating<br>in a restaurant)     | 40-50 minutes  |
| Indoor talking/breathing, mask, no<br>social distance, good ventilation<br>(flying in airplane)   | No documented cases;<br>estimated risk 1:4,300<br>in 3 hours |
| Indoor talking/breathing, mask, social distancing   | No documented cases,<br>no published risk<br>estimate        |

## **Quick Facts about COVID Transmission**

- Approximately 80% of people with COVID-19 do not transmit the disease to anyone else.
- The majority of known transmission is through "super-spreader" events without masking or social distancing.
- Mask-wearing decreases the <u>wearer's</u> chance of contracting COVID-19 by 65%.
- The estimated chance that a mask-wearer will contract COVID from an unmasked infected person when NOT social distancing, handwashing, cleaning, or in a ventilated room is 3%.
- The effects of social distancing, handwashing, cleaning, and ventilation are <u>additive</u> to maskwearing.
- Surface contact spread is possible, but no confirmed cases exist.
- There have been no documented cases of spread in a university classroom setting with masking.

## References

https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)31142-9/fulltext https://www.medrxiv.org/content/10.1101/2020.06.11.20128900v4 https://www.medrxiv.org/content/10.1101/2020.07.02.20143826v3 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7081172/ https://www.nature.com/articles/s41591-020-0869-5 https://www.cdc.gov/coronavirus/2019-ncov/hcp/faq.html

