

# Reduce Your Risk of COVID-19 Variants and Future Pandemics

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## Complete References



[Abbott, A. \(2021\). COVID's mental-health toll: Scientists track surge in depression. \*Nature\*, 590, 19-195.](#)

[Bartzokas, N., Gröndahl, M., Patanjali, K., Peyton, M., Saget, B., & Syam, U. \(February 26, 2021\). Why opening windows is a key to reopening schools. \*The New York Times\*. Downloaded March 1, 2021.](#)

Baeke, F., Takiishi, T., Korf, H., Gysemans, C., & Mathieu, C. (2010). Vitamin D: modulator of the immune system, *Current Opinion in Pharmacology*, 10(4), 482-496. <https://doi.org/10.1016/j.coph.2010.04.001>

Brody, J. (2020). How Poor Diet Contributes to Coronavirus Risk. *The New York Times*, April 20, 2020. <https://www.nytimes.com/2020/04/20/well/eat/coronavirus-diet-metabolic-health.html?referringSource=articleShare>

CDC. (2021). Adult Obesity Prevalence Maps. Centers for Disease Control and Prevention. <https://www.cdc.gov/obesity/data/prevalence-maps.html#nonhispanic-white-adults>

CDC. (May 13, 2021). Ways COVID-19 Spreads. Centers for Disease Control and Prevention. <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html>

Darmon, N. & Drewnowski, A. (2008). Does social class predict diet quality?, *The American Journal of Clinical Nutrition*, 87(5), 2008, 1107–1117. <https://doi.org/10.1093/ajcn/87.5.1107>

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- da Silveira, M. P., da Silva Fagundes, K. K., Bizuti, M. R., Starck, É., Rossi, R. C., & de Resende E Silva, D. T. (2021). Physical exercise as a tool to help the immune system against COVID-19: an integrative review of the current literature. *Clinical and experimental medicine*, 21(1), 15–28. <https://doi.org/10.1007/s10238-020-00650-3>
- Elflein, J. (2021). COVID-19 deaths reported in the U.S. as of January 2, 2021, by age. Downloaded, 1/13/2021 from <https://www.statista.com/statistics/1191568/reported-deaths-from-covid-by-age-us/>
- Fisher, E. P., Fischer, M.C., Grass, D., Henrion, I., Warren, W.S., & Westmand, E. (2020). Low-cost measurement of face mask efficacy for filtering expelled droplets during speech. *Science Advance*, (6) 36, eabd3083. <https://doi.org/10.1126/sciadv.abd3083>
- Flanagan, E.W., Beyl, R.A., Fearnbach, S.N., Altazan, A.D., Martin, C.K., & Redman, L.M. (2021). The Impact of COVID-19 Stay-At-Home Orders on Health Behaviors in Adults. *Obesity (Silver Spring)*, (2), 438-445. <https://doi.org/10.1002/oby.23066>
- Gaiha, S.M., Cheng, J., & Halpern-Felsher, B. (2020). Association Between Youth Smoking, Electronic Cigarette Use, and COVID-19. *Journal of Adolescent Health*, 67(4), 519-523. <https://doi.org/10.1016/j.jadohealth.2020.07.002>
- Gallagher J. C. (2013). Vitamin D and aging. *Endocrinology and metabolism clinics of North America*, 42(2), 319–332. <https://doi.org/10.1016/j.ecl.2013.02.004>
- Gandhi, M. & Rutherford, G. W. (2020). Facial Masking for Covid-19 — Potential for “Variolation” as We Await a Vaccine. *New England Journal of Medicine*, 383(18), e101 <https://www.nejm.org/doi/full/10.1056/NEJMp2026913>
- Gold, M.S., Sehayek, D., Gabrielli, S., Zhang, X., McCusker, C., & Ben-Shoshan, M. (2020). COVID-19 and comorbidities: a systematic review and meta-analysis. *Postgrad Med*, 132(8), 749-755. <https://doi.org/10.1080/00325481.2020.1786964>
- Graham, N.M., Burrell, C.J., Douglas, R.M., Debelle, P., & Davies, L. (1990). Adverse effects of aspirin, acetaminophen, and ibuprofen on immune function, viral shedding, and clinical status in rhinovirus-infected volunteers. *J Infect Dis.*, 162(6), 1277-82. <https://doi.org/10.1093/infdis/162.6.1277>
- Haddad, C., Malhab, S.B., & Sacre, H. (2021). Smoking and COVID-19: A Scoping Review. *Tobacco Use Insights*, 14, First Published February 15, 2021. <https://doi.org/10.1177/1179173X21994612>
- Harris, S.S. (2006). Vitamin D and African Americans. *The Journal of Nutrition*, 136(4), 1126-1129. <https://doi.org/10.1093/jn/136.4.1126>
- Holick, M.F. (2021). The D-Lightfully controversial vitamin D: Health benefits from birth until death. YouTube video <https://www.youtube.com/watch?v=OmgY1mK3W2k>
- Kaufman, H.W., Niles, J.K., Kroll, M.H., Bi, C., Holick, M.F. (2020). SARS-CoV-2 positivity rates associated with circulating 25-hydroxyvitamin D levels. *PLoS One*. 15(9):e0239252. <https://doi.org/10.1371/journal.pone.0239252>

## Reduce Your Risk of COVID-19 Variants and Future Pandemics

Khan, A. H., Nasir, N., Nasir, N., Maha, Q., & Rehman, R. (2021). Vitamin D and COVID-19: is there a role?. *Journal of Diabetes & Metabolic Disorders*, 1-8. <https://doi.org/10.1007/s40200-021-00775-6>

Kompaniyets, L., Agathis, N.T., Nelson, J.M., et al. (2021). Underlying Medical Conditions Associated With Severe COVID-19 Illness Among Children. *JAMA Netw Open*. 4(6):e2111182. <https://doi.org/10.1001/jamanetworkopen.2021.11182>

Leonard B. E. (2010). The concept of depression as a dysfunction of the immune system. *Current immunology reviews*, 6(3), 205–212. <https://doi.org/10.2174/157339510791823835>

Lewis, N. M., Duca, L. M., Marcenac, P., Dietrich, E. A., Gregory, C. J., Fields, V. L....Kirking, H. L. (2021). Characteristics and Timing of Initial Virus Shedding in Severe Acute Respiratory Syndrome Coronavirus 2, Utah, USA. *Emerging Infectious Diseases*, 27(2), 352-359. <https://doi.org/10.3201/eid2702.203517>

[Lin, A.L., Vittinghoff, E., Olgin, J.E., Pletcher, M.J., & Marcus, G.M. \(2021\). Body Weight Changes During Pandemic-Related Shelter-in-Place in a Longitudinal Cohort Study. \*JAMA Netw Open\*, 4\(3\):e212536. doi:10.1001/jamanetworkopen.2021.2536](https://doi.org/10.1001/jamanetworkopen.2021.2536)

Long, J.E., Drayson, M.T., Taylor, A.E., Toellner, K.M., Lord, J.M., & Phillips, A.C. (2016). Morning vaccination enhances antibody response over afternoon vaccination: A cluster-randomised trial. *Vaccine*, 34(24), 2679-85. <https://doi.org/10.1016/j.vaccine.2016.04.032>.

Long, J.E., Ring, C., Drayson, M., Bosch, J., Campbell, J.P., Bhabra, J., Browne, D., Dawson, J., Harding, S., Lau, J., & Burns, V.E. (2012). Vaccination response following aerobic exercise: can a brisk walk enhance antibody response to pneumococcal and influenza vaccinations? *Brain Behav Immun.*, 26(4), 680-687. <https://doi.org/10.1016/j.bbi.2012.02.004>

Merelli, A. (2021, February 2). Pfizer's Covid-19 vaccine is set to be one of the most lucrative drugs in the world. *QUARTZ*. <https://qz.com/1967638/pfizer-will-make-15-billion-from-covid-19-vaccine-sales/>

Michels, N., Vynckier, L., Moreno, L.A. et al. (2018). Mediation of psychosocial determinants in the relation between socio-economic status and adolescents' diet quality. *Eur J Nutr*, 57, 951–963. <https://doi.org/10.1007/s00394-017-1380-8>

[Mukherjee, S. \(2020\). How does the coronavirus behave inside a patient? We've counted the viral spread across peoples; now we need to count it within people. \*The New Yorker\*, April 6, 2020. https://www.newyorker.com/magazine/2020/04/06/how-does-the-coronavirus-behave-inside-a-patient?utm\\_source=onsite-share&utm\\_medium=email&utm\\_campaign=onsite-share&utm\\_brand=the-new-yorker](https://www.newyorker.com/magazine/2020/04/06/how-does-the-coronavirus-behave-inside-a-patient?utm_source=onsite-share&utm_medium=email&utm_campaign=onsite-share&utm_brand=the-new-yorker)

Munshi, R., Hussein, M.H., Toraih, E.A., Elshazli, R.M., Jardak, C., Sultana, N., Youssef, M.R., Omar, M., Attia, A.S., Fawzy, M.S., Killackey, M., Kandil, E., & Duchesne, J. (2020) Vitamin D insufficiency as a potential culprit in critical COVID-19 patients. *J Med Virol*, 93(2), 733-740. <https://doi.org/10.1002/jmv.26360>

Renoud, L., Khouri, C., Revol, B., et al. (2021) Association of Facial Paralysis With mRNA COVID-19 Vaccines: A Disproportionality Analysis Using the World Health Organization Pharmacovigilance

## Reduce Your Risk of COVID-19 Variants and Future Pandemics

Database. *JAMA Intern Med.* Published online April 27, 2021. <https://doi.org/10.1001/jamainternmed.2021.2219>

[Sallis, R., Young, D. R., Tartof, S.Y., et al. \(2021\). Physical inactivity is associated with a higher risk for severe COVID-19 outcomes: a study in 48 440 adult patients. \*British Journal of Sports Medicine.\* Published Online First: 13 April 2021. <http://dx.doi.org/10.1136/bjsports-2021-104080>](#)

Schöttker, B., Haug, U., Schomburg, L., Köhrle, L., Perna, L., Müller, H., Holleczeck, B., & Brenner, H. (2013). Strong associations of 25-hydroxyvitamin D levels with all-cause, cardiovascular, cancer and respiratory disease mortality in a large cohort study. *American Journal of Clinical Nutrition*, 97(4), 782–793 2013; <https://doi.org/10.3945/ajcn.112.047712>

Seheult, R. (2020). Vitamin D and COVID 19: The Evidence for Prevention and Treatment of Coronavirus (SARS CoV 2). YouTube video, <https://www.youtube.com/watch?v=ha2mLz-Xdpg>

Siegel, K.R., McKeever Bullard, K., Imperatore, G., et al. (2016). Association of Higher Consumption of Foods Derived From Subsidized Commodities With Adverse Cardiometabolic Risk Among US Adults. *JAMA Intern Med.* 176(8), 1124–1132. <https://doi.org/10.1001/jamainternmed.2016.2410>

Ssentongo P, Ssentongo AE, Heilbrunn ES, Ba DM, Chinchilli VM (2020) Association of cardiovascular disease and 10 other pre-existing comorbidities with COVID-19 mortality: A systematic review and meta-analysis. *PLoS ONE* 15(8): e0238215. <https://doi.org/10.1371/journal.pone.0238215>

Steenhuysen, J. (2021, Jan 30). Fresh data show toll South African virus variant takes on vaccine efficacy. Accessed January 31, 2021. <https://www.reuters.com/article/us-health-coronavirus-vaccines-variant/fresh-data-show-toll-south-african-virus-variant-takes-on-vaccine-efficacy-idUSKBN29Z0I7>

World Health Organization. (2017). Sugary drinks1 – a major contributor to obesity and diabetes. WHO/NMH/PND/16.5 Rev. <https://apps.who.int/iris/bitstream/handle/10665/260253/WHO-NMH-PND-16.5Rev.1-eng.pdf?sequence=1>

Zimmermann, P. & Curtis, N. (2019). Factors That Influence the Immune Response to Vaccination. *Clinical Microbiology Reviews*, 32(2), 1-50. <https://doi.org/10.1128/CMR.00084-18>



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