References

[1] Kermack, W.O. & McKendrick, A. G. (1927) A Contribution to the Mathematical Theory of Epidemics, Proceedings of the Royal Society, **115**. 700 − 721. `https://doi.org/10.1098/rspa.1927.0118`

[2] Khoury, J., Najjar-Debbiny, R., Hanna, A., Jabbour, A., Abu Ahmad, Y., Saffuri, A., Abu-Sinni, M., Shkeiri, R., Elemy, A., & Hakim, F. (2021). COVID-19 vaccine - Long term immune decline and breakthrough infections. Vaccine, 39(48), 6984–6989. `https://doi.org/10.1016/j.vaccine.2021.10.038`

[3] Della Rossa, F., Salzano, D., Di Meglio, A. et al. (2020). A network model of Italy shows that intermittent regional strategies can alleviate the COVID-19 epidemic. Nature Communications 11, 5106. `https://doi.org/10.1038/s41467-020-18827-5`

[4] Pizzuti, C., Socievole, A., Prasse, B. et al. (2020) Network-based prediction of COVID-19 epidemic spreading in Italy. Applied Network Science 5, 91. `https://doi.org/10.1007/s41109-020-00333-8`

[5] Ding, X., Huang, S., Leung, A., et al. (2021) Incorporating dynamic flight network in SEIR to model mobility between populations. Applied Network Science. 6(42). `https://doi.org/10.1007/s41109-021-00378-3`

[6] Karntikoon, K. (2024) Dynamics of Averaging Systems: Convergence and Cyclical Trends [Doctoral Dissertation, Princeton University]. `http://arks.princeton.edu/ark:/88435/dsp01q237hw311`

[7] U.S. Department of Transportation (USDOT) (2024) Air Carriers: T-100 Domestic Market (U.S. Carriers) Dataset, `https://www.transtats.bts.gov/DL_SelectFields.aspx?gnoyr_VQ=FIL&QO_fu146_anzr=Nv4%20Pn44vr45`

[8] Arinaminpathy, N. (n.d.) Week 1: Modelling the Force of Infection [MOOC Lecture]. In Arinaminpathy, N., Developing the SIR Model. Coursera. `https://www.coursera.org/learn/developing-the-sir-model/`

[9] U.S. Census Bureau (2020) TOTAL POPULATION. Decennial Census, DEC 118th Congressional District Summary File, Table P1., `https://data.census.gov/table/DECENNIALCD1182020.P1?t=PopulationsandPeople&g=010XX00US,$0400000,$1600000&y=2020&tp=true`

[10] Fornito, A., Zalesky, A., & Bullmore, E. (2016) Fundamentals of Brain Network Analysis. Elsevier.

[11] Hall, V., Foulkes, S., Insalata, F., et al. (2022) Protection against SARS-CoV-2 after Covid-19 Vaccination and Previous Infection. The New England Journal of Medicine. 386(13). 1207–1220. `https://doi.org/10.1056/NEJMoa2118691`

[12] Xin, H., Li, Y., Wu, P., et. al. (2022) Estimating the Latent Period of Coronavirus Disease 2019 (COVID-19). Clinical infectious diseases : an official publication of the Infectious Diseases Society of America. 74(9). 1678–1681 `https://doi.org/10.1093/cid/ciab746`

[13] Yan, D., Zhang, X., Chen, C., et. al. (2021) Characteristics of Viral Shedding Time in SARS-CoV-2 Infections: A Systematic Review and Meta-Analysis Frontiers in Public Health. 9. `https://doi.org/10.3389/fpubh.2021.652842`

[14] Arfijanto, M. V., Asmarawati, T. P., Bramantono, B., Rusli, M., Rachman, B. E., Mahdi, B. A., Nasronudin, N., & Hadi, U. (2023) Duration of SARS-CoV-2 RNA Shedding Is Significantly Influenced by Disease Severity, Bilateral Pulmonary Infiltrates, Antibiotic Treatment, and Diabetic Status: Consideration for Isolation Period. Pathophysiology : the official journal of the International Society for Pathophysiology. 30(2). 186-198. `https://doi.org/10.3390/pathophysiology30020016`

[15] Kumar, A., Narayan, R. K., Prasoon, P., et. al. (2021) COVID-19 Mechanisms in the Human Body—What We Know So Far Frontiers in Immunology. 12. `https://doi.org/10.3389/fimmu.2021.693938`

[16] Kochanek, K.D., Murphy, S.L., Xu, J., & Arias, E. (2023) Deaths: Final Data for 2020 National Vital Statistics Reports. 72(10). `https://www.cdc.gov/nchs/data/nvsr/nvsr72/nvsr72-10.pdf`

[17] Du, J., Lang, H-M., Ma, Y., Chen, A-W., Qin, Y-Y., Zhang, X-P., & Huang, C-Q. (2024) Global trends in COVID-19 incidence and case fatality rates (2019–2023): a retrospective analysis Frontiers in Public Health. 12. `https://doi.org/10.3389/fpubh.2024.1355097`

[18] Osterman, M.J.K., Hamilton, B.E., Martin, J.A., Driscoll, A.K., & Valenzuela, C.P. (2022) Births: Final Data for 2020 National Vital Statistics Reports. 70(17). `https://www.cdc.gov/nchs/data/nvsr/nvsr70/nvsr70-17.pdf`

[19] Achaiah, N.C., Subbarajasetty, S.B., & Shetty, R.M. (2020) R_0 and R_e of COVID-19: Can we predict when the pandemic outbreak will be contained? Indian J Crit Care Med. 24(11). 1125-1127. `https://www.ijccm.org/doi/pdf/10.5005/jp-journals-10071-23649`

[20] Chae, S.Y., Lee, K., Lee, H.M., Jung, N., Le, Q.A., Mafwele, B.J., Lee, T.H., Kim, D.H., & Lee, J.W. (2020) Estimation of Infection Rate and Predictions of Disease Spreading Based on Initial Individuals Infected With COVID-19 Frontiers in Physics. 8. `https://doi.org/10.3389/fphy.2020.00311`

[21] Google (2022) COVID-19 Open Data. `https://health.google.com/covid-19/open-data/raw-data`

[22] Cella, E., Ali, S., Schmedes, S. E., Rife Magalis, B., Marini, S., Salemi, M., Blanton, J., & Azarian, T. (2022) Early Emergence Phase of SARS-CoV-2 Delta Variant in Florida, US. Viruses. 14(4). 766. `https://doi.org/10.3390/v14040766`

[23] CDC (2024) CDC Museum COVID-19 Timeline `https://www.cdc.gov/museum/timeline/covid19.html`

[24] 'Data Page: Daily COVID-19 tests per 1,000 people", part of the following publication: Mathieu, E., Ritchie, H., Rodés-Guirao, L., Appel, C., Gavrilov, D., Giattino, C., Hasell, J. Macdonald, B., Dattani, S., Beltekian, D., Ortiz-Ospina, E., & Roser, M. (2020) COVID-19 Pandemic. Data adapted from Official data collated by Our World in Data. `https://ourworldindata.org/grapher/daily-tests-per-thousand-people-smoothed-7-day`