

DAFTAR PUSTAKA

1. Suprobowati OD, Kurniati I. Virologi [Internet]. Badan Pengembangan dan Pemberdayaan Sumber Daya Manusia Kesehatan; 2018. Available from: http://bppsdmk.kemkes.go.id/pusdiksdmk/wp-content/uploads/2018/09/Virologi_SC.pdf
2. Burhan E, Et.al. Pedoman Tatalaksana COVID-19 [Internet]. 2nd ed. Jakarta: Perhimpunan Dokter Paru Indonesia (PDPI) Perhimpunan Dokter Spesialis Kardiovaskular Indonesia (PERKI) Perhimpunan Dokter Spesialis Penyakit Dalam Indonesia (PAPDI) Perhimpunan Dokter Anestesiologi dan Terapi Intensif Indonesia (PERDATIN) Ikatan Dokter An; 2020. Available from: [https://www.papdi.or.id/pdfs/938/Pedoman Tatalaksana COVID-19 edisi 2.pdf](https://www.papdi.or.id/pdfs/938/Pedoman_Tatalaksana_COVID-19_edisi_2.pdf)
3. ProMED International Society for Infectious Diseases. UNDIAGNOSED PNEUMONIA - CHINA (HUBEI) [Internet]. 2019. Available from: <https://promedmail.org/promed-post/?id=6864153 #COVID19>
4. World Health Organization. Naming the coronavirus disease (COVID-19) and the virus that causes it [Internet]. Available from: [https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-\(covid-2019\)-and-the-virus-that-causes-it](https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-(covid-2019)-and-the-virus-that-causes-it)
5. World Health Organization. WHO Director-General's opening remarks at the media briefing on COVID-19 - 11 March 2020 [Internet]. 2020. Available from: <https://www.who.int/director-general/speeches/detail/who-director-general-s-opening-remarks-at-the-media-briefing-on-covid-19---11-march-2020>
6. Portal Informasi Indonesia. Kasus Covid-19 Pertama, Masyarakat Jangan Panik [Internet]. 2020. Available from: <https://indonesia.go.id/narasi/indonesia-dalam-angka/ekonomi/kasus-covid-19-pertama-masyarakat-jangan-panik>
7. KPCPEN. Peta Sebaran COVID-19 [Internet]. Available from: <https://covid19.go.id/peta-sebaran-covid19>
8. Sugihantono A, et.al. Pedoman Pencegahan Pengendalian Coronavirus Disease (COVID- 19). 5th ed. Aziza L, Aqmarina A, Maulidiah I, editors. Kementerian Kesehatan RI; 2020.
9. World Health Organization. Episode #14 - COVID-19 - Tests [Internet]. 2020. Available from: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/media-resources/science-in-5/episode-14---covid-19---tests>
10. UN Women. COVID-19: Emerging gender data and why it matters [Internet].

2020. Available from: <https://data.unwomen.org/resources/covid-19-emerging-gender-data-and-why-it-matters>

11. Vardavas CI, Nikitara K. COVID-19 and smoking: A systematic review of the evidence. Vol. 18, Tobacco induced diseases. 2020. p. 20.
12. Mi J, Zhong W, Huang C, Zhang W, Tan L, Ding L. Gender, age and comorbidities as the main prognostic factors in patients with COVID-19 pneumonia. *Am J Transl Res*. 2020;12(10):6537–48.
13. Peckham H, de Gruijter NM, Raine C, Radziszewska A, Ciurtin C, Wedderburn LR, et al. Male sex identified by global COVID-19 meta-analysis as a risk factor for death and ICU admission. *Nat Commun*. 2020 Dec;11(1):6317.
14. Carsetti R, Quintarelli C, Quinti I, Piano Mortari E, Zumla A, Ippolito G, et al. The immune system of children: the key to understanding SARS-CoV-2 susceptibility? *Lancet Child Adolesc Heal*. 2020 Jun;4(6):414–6.
15. Pierce CA, Preston-Hurlburt P, Dai Y, Aschner CB, Cheshenko N, Galen B, et al. Immune responses to SARS-CoV-2 infection in hospitalized pediatric and adult patients. *Sci Transl Med*. 2020;12(564).
16. World Health Organization Europe. Supporting older people during the COVID-19 pandemic is everyone's business [Internet]. 2020. Available from: <https://www.euro.who.int/en/health-topics/health-emergencies/coronavirus-covid-19/news/news/2020/4/supporting-older-people-during-the-covid-19-pandemic-is-everyones-business#:~:text=Although all age groups are,potential underlying health conditions>
17. Prevention C for disease control and. People with Certain Medical Conditions [Internet]. 2021. Available from: <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html>
18. World Health Organization. Maternal, Newborn, Child and Adolescent Health, Ageing and COVID-19 (MCA) [Internet]. Available from: <https://www.who.int/teams/maternal-newborn-child-adolescent-health-and-ageing/covid-19>
19. Voinsky I, Baristaite G, Gurwitz D. Effects of age and sex on recovery from COVID-19: Analysis of 5769 Israeli patients. Vol. 81, *The Journal of infection*. 2020. p. e102–3.
20. Pusat Analisis Determinan Kesehatan. HINDARI LANSIA DARI COVID 19 [Internet]. Available from: <http://www.padk.kemkes.go.id/article/read/2020/04/23/21/hindari-lansia-dari-covid-19.html>

21. Cascella M, Rajnik M, Cuomo A, Dulebohn SC, Napoli R Di. Features, Evaluation, and Treatment of Coronavirus (COVID-19) [Internet]. StatPearls Publishing; 2021. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK554776/>
22. Burki T. The origin of SARS-CoV-2. *Lancet Infect Dis* [Internet]. 2020 Sep 1;20(9):1018–9. Available from: [https://doi.org/10.1016/S1473-3099\(20\)30641-1](https://doi.org/10.1016/S1473-3099(20)30641-1)
23. Kampf G, Voss A, Scheithauer S. Inactivation of coronaviruses by heat. Vol. 105, *The Journal of hospital infection*. 2020. p. 348–9.
24. Nugroho WD, Cahyani WI, Tobing AS, Istiqomah N, Cahyasari I, Indrastuti M, et al. Literature Review : Transmisi Covid-19 dari Manusia ke Manusia di Asia. *J Bionursing* [Internet]. 2020;2(2). Available from: <http://bionursing.fikes.unsoed.ac.id/bion/index.php/bionursing/article/view/51>
25. Yuki K, Fujiogi M, Koutsogiannaki S. COVID-19 pathophysiology: A review. *Clin Immunol*. 2020 Jun;215:108427.
26. Sumbar Tanggap Corona. Data Pantauan COVID-19 Provinsi Sumatera Barat [Internet]. Available from: <https://corona.sumbarprov.go.id/>
27. Dinkes Padang. Situasi Terkini Perkembangan Kasus Coronavirus Disease (COVID-19) di Kota Padang_31 Desember 2020 Update Pukul 14.00 WIB [Internet]. 2020. Available from: https://dinkes.padang.go.id/situasi-terkini-perkembangan-kasus-coronavirus-disease-covid-19-di-kota-padang_31-desember-2020-update-pukul-1400-wib
28. Madewell ZJ, Yang Y, Longini Jr IM, Halloran ME, Dean NE. Household Transmission of SARS-CoV-2: A Systematic Review and Meta-analysis. *JAMA Netw Open* [Internet]. 2020 Dec 14;3(12):e2031756–e2031756. Available from: <https://doi.org/10.1001/jamanetworkopen.2020.31756>
29. Mu'afa K, Asih TSN. Model Dinamika Interaksi Virus Corona (SARS-CoV-2) Penyebab COVID-19 dengan Sistem Imun Tubuh. *Prisma*. 2021;4:718–26.
30. Meyerowitz EA, Richterman A, Gandhi RT, Sax PE. Transmission of SARS-CoV-2: A Review of Viral, Host, and Environmental Factors. *Ann Intern Med*. 2021 Jan;174(1):69–79.
31. Public Health Ontario. COVID-19 Routes of Transmission – What We Know So Far [Internet]. 2020. Available from: <https://www.publichealthontario.ca/-/media/documents/ncov/covid-wwksf/2020/12/routes-transmission-covid-19.pdf?la=en>

32. Samudrala PK, Kumar P, Choudhary K, Thakur N, Wadekar GS, Dayaramani R, et al. Virology, pathogenesis, diagnosis and in-line treatment of COVID-19. *Eur J Pharmacol.* 2020 Sep;883:173375.
33. Helmy YA, Fawzy M, Elaswad A, Sobieh A, Kenney SP, Shehata AA. The COVID-19 Pandemic: A Comprehensive Review of Taxonomy, Genetics, Epidemiology, Diagnosis, Treatment, and Control. *J Clin Med.* 2020 Apr;9(4).
34. Mousavizadeh L, Ghasemi S. Genotype and phenotype of COVID-19: Their roles in pathogenesis. *J Microbiol Immunol Infect [Internet].* 2021;54(2):159–63. Available from: <https://www.sciencedirect.com/science/article/pii/S1684118220300827>
35. Mittal A, Manjunath K, Ranjan RK, Kaushik S, Kumar S, Verma V. COVID-19 pandemic: Insights into structure, function, and hACE2 receptor recognition by SARS-CoV-2. *PLoS Pathog.* 2020 Aug;16(8):e1008762.
36. Rahmasari R, Setiawan H, Syahdi RR, Arifianti A, Irianti MI, Sauriasari R, et al. SARS-CoV-2: Virology and Drug Repurposing Approaches. *Pharm Sci Res.* 2020;7(4):29–38.
37. Dalskov L, Møhlenberg M, Thyrssted J, Blay-Cadanet J, Poulsen ET, Folkersen BH, et al. SARS-CoV-2 evades immune detection in alveolar macrophages. *EMBO Rep [Internet].* 2020 Dec 3 [cited 2021 Jul 2];21(12):e51252. Available from: <https://onlinelibrary.wiley.com/doi/10.15252/embr.202051252>
38. Nowak M, May R. *Virus Dynamics.* New York: Oxford University Press; 2000.
39. Ryding S. What is Viral Load? [Internet]. *News Medical Life Sciences.* 2021. Available from: <https://www.news-medical.net/health/What-is-Viral-Load.aspx>
40. Wang S, Pan Y, Wang Q, Miao H, Brown AN, Rong L. Modeling the viral dynamics of SARS-CoV-2 infection. *Math Biosci.* 2020 Oct;328:108438.
41. Harvard Medical School. If you've been exposed to the coronavirus [Internet]. Harvard Health Publishing. 2021. Available from: <https://www.health.harvard.edu/diseases-and-conditions/if-youve-been-exposed-to-the-coronavirus>
42. Jang S, Rhee J-Y, Wi YM, Jung BK. Viral kinetics of SARS-CoV-2 over the preclinical, clinical, and postclinical period. *Int J Infect Dis [Internet].* 2021;102:561–5. Available from: <https://www.sciencedirect.com/science/article/pii/S120197122032302X>
43. Centers for disease control and Prevention. Clinical Care Guidance [Internet]. 2021. Available from: <https://www.cdc.gov/coronavirus/2019->

ncov/hcp/clinical-guidance-management-patients.html

44. Gao Z, Xu Y, Sun C, Wang X, Guo Y, Qiu S, et al. A systematic review of asymptomatic infections with COVID-19. *J Microbiol Immunol Infect* [Internet]. 2021;54(1):12–6. Available from: <https://www.sciencedirect.com/science/article/pii/S1684118220301134>
45. Cevik M, Tate M, Lloyd O, Maraolo AE, Schafers J, Ho A. SARS-CoV-2, SARS-CoV, and MERS-CoV viral load dynamics, duration of viral shedding, and infectiousness: a systematic review and meta-analysis. *The Lancet Microbe* [Internet]. 2021 Jan 1;2(1):e13–22. Available from: [https://doi.org/10.1016/S2666-5247\(20\)30172-5](https://doi.org/10.1016/S2666-5247(20)30172-5)
46. Han J, Shi L, Xie Y, Zhang Y, Huang S, Li J, et al. Analysis of factors affecting the prognosis of COVID-19 patients and viral shedding duration. *Epidemiol Infect* [Internet]. 2020/06/25. 2020;148:e125. Available from: <https://www.cambridge.org/core/article/analysis-of-factors-affecting-the-prognosis-of-covid19-patients-and-viral-shedding-duration/813B394906E16C87C0CEBFAE8CB96401>
47. Tahamtan A, Ardebili A. Real-time RT-PCR in COVID-19 detection: issues affecting the results. Vol. 20, *Expert review of molecular diagnostics*. 2020. p. 453–4.
48. Pascarella G, Strumia A, Piliago C, Bruno F, Del Buono R, Costa F, et al. COVID-19 diagnosis and management: a comprehensive review. *J Intern Med*. 2020 Aug;288(2):192–206.
49. Zuo H. Contribution of CT Features in the Diagnosis of COVID-19. *Can Respir J* [Internet]. 2020;2020. Available from: <https://www.hindawi.com/journals/crj/2020/1237418/#references>
50. Udugama B, Kadhiresan P, Kozlowski HN, Malekjahani A, Osborne M, Li VYC, et al. Diagnosing COVID-19: The Disease and Tools for Detection. *ACS Nano* [Internet]. 2020 Apr 28;14(4):3822–35. Available from: <https://doi.org/10.1021/acsnano.0c02624>
51. WHO Guidance Note. Use of chest imaging in COVID-19: a rapid advice guida. *World Heal Organ* [Internet]. 2020;56. Available from: (WHO/2019-nCoV/Clinical/Radiology_imaging/2020.1)
52. Mouliou DS, Gourgoulis KI. False-positive and false-negative COVID-19 cases: respiratory prevention and management strategies, vaccination, and further perspectives. *Expert Rev Respir Med*. 2021 Apr;1–10.
53. Cislighi B, Heise L. Gender norms and social norms: differences, similarities

- and why they matter in prevention science. *Sociol Health Illn* [Internet]. 2020;42(2):407–22. Available from: <https://doi.org/10.1111/1467-9566.13008>
54. Badan Peran, Pembangunan P, Dalam D, Tomohon RK, Lantaeda SB, Lengkong FDJ, et al. Peran Badan Perencanaan Pembangunan Daerah Dalam Penyusunan Rpjmd Kota Tomohon. *J Adm Publik*. 2017;4(48).
 55. Samad D. Perempuan; Antara Norma Dan Realita. *Kafa`ah J Gend Stud*. 2013;3(1):1.
 56. Tadiri CP, Gisinger T, Kautzky-Willer A, Kublickiene K, Herrero MT, Raparelli V, et al. The influence of sex and gender domains on COVID-19 cases and mortality. *Can Med Assoc J* [Internet]. 2020 Sep 8;192(36):E1041 LP-E1045. Available from: <http://www.cmaj.ca/content/192/36/E1041.abstract>
 57. Ortona E, Pierdominici M, Rider V. Editorial: Sex Hormones and Gender Differences in Immune Responses. Vol. 10, *Frontiers in immunology*. 2019. p. 1076.
 58. Pradhan A, Olsson P-E. Sex differences in severity and mortality from COVID-19: are males more vulnerable? *Biol Sex Differ* [Internet]. 2020 Sep 18;11(1):53. Available from: <https://pubmed.ncbi.nlm.nih.gov/32948238>
 59. Abraham SA, Tessema M, Defar A, Hussen A, Ejeta E, Demoz G, et al. Time to recovery and its predictors among adults hospitalized with COVID-19: A prospective cohort study in Ethiopia. *PLoS One* [Internet]. 2021 Dec 30;15(12):e0244269. Available from: <https://doi.org/10.1371/journal.pone.0244269>
 60. Xu K, Chen Y, Yuan J, Yi P, Ding C, Wu W, et al. Factors Associated With Prolonged Viral RNA Shedding in Patients with Coronavirus Disease 2019 (COVID-19). *Clin Infect Dis* [Internet]. 2020 Jul 28;71(15):799–806. Available from: <https://doi.org/10.1093/cid/cia351>
 61. Shi D, Wu W, Wang Q, Xu K, Xie J, Wu J, et al. Clinical Characteristics and Factors Associated With Long-Term Viral Excretion in Patients With Severe Acute Respiratory Syndrome Coronavirus 2 Infection : a Single-Center 28-Day Study. 2020;222.
 62. Bi Q, Wu Y, Mei S, Ye C, Zou X, Zhang Z, et al. Epidemiology and transmission of COVID-19 in 391 cases and 1286 of their close contacts in Shenzhen, China: a retrospective cohort study. *Lancet Infect Dis* [Internet]. 2020/04/27. 2020 Aug;20(8):911–9. Available from: <https://pubmed.ncbi.nlm.nih.gov/32353347>
 63. Chen X, Hu MT W, Yang M, Ling J, Zhang Y, Deng L, et al. Risk factors for the delayed viral clearance in COVID-19 patients. *J Clin Hypertens* [Internet].

2021 Aug 1;23(8):1483–9. Available from: <https://doi.org/10.1111/jch.14308>

64. Bennasrallah C, Zemni I, Dhouib W, Sriha H, Mezhoud N, Bouslama S, et al. Factors associated with a prolonged negative conversion of viral RNA in patients with COVID-19. *Int J Infect Dis* [Internet]. 2021;105:463–9. Available from: <https://www.sciencedirect.com/science/article/pii/S1201971221001752>
65. Kumar N, AbdulRahman A, AlAli S, Otoom S, Atkin SL, AlQahtani M. Time Till Viral Clearance of Severe Acute Respiratory Syndrome Coronavirus 2 Is Similar for Asymptomatic and Non-critically Symptomatic Individuals. *Front Med* [Internet]. 2021 Mar 26;8:616927. Available from: <https://pubmed.ncbi.nlm.nih.gov/33842498>
66. Yan D, Liu X-Y, Zhu Y-N, Huang L, Dan B-T, Zhang G-J, et al. Factors associated with prolonged viral shedding and impact of lopinavir/ritonavir treatment in hospitalised non-critically ill patients with SARS-CoV-2 infection. *Eur Respir J* [Internet]. 2020 Jul 16;56(1):2000799. Available from: <https://pubmed.ncbi.nlm.nih.gov/32430428>
67. Dehingia N, Raj A. Sex differences in COVID-19 case fatality: do we know enough? *Lancet Glob Heal* [Internet]. 2021 Jan 1;9(1):e14–5. Available from: [https://doi.org/10.1016/S2214-109X\(20\)30464-2](https://doi.org/10.1016/S2214-109X(20)30464-2)
68. Bajaj V, Gadi N, Spihlman AP, Wu SC, Choi CH, Moulton VR. Aging, Immunity, and COVID-19: How Age Influences the Host Immune Response to Coronavirus Infections? *Front Physiol* [Internet]. 2020; Available from: <https://www.frontiersin.org/articles/10.3389/fphys.2020.571416/full>
69. Centers for disease control and Prevention. Older Adults at greater risk of requiring hospitalization or dying if diagnosed with COVID-19 [Internet]. 2021. Available from: <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/older-adults.html>
70. Ho FK, Petermann-Rocha F, Gray SR, Jani BD, Katikireddi SV, Niedzwiedz CL, et al. Is older age associated with COVID-19 mortality in the absence of other risk factors? General population cohort study of 470,034 participants. *PLoS One* [Internet]. 2020 Nov 5;15(11):e0241824. Available from: <https://doi.org/10.1371/journal.pone.0241824>
71. Kang SJ, Jung SI. Age-Related Morbidity and Mortality among Patients with COVID-19. *Infect Chemother*. 2020 Jun;52(2):154–64.
72. Castle SC. Clinical Relevance of Age-Related Immune Dysfunction. *Clin Infect Dis* [Internet]. 2000 Aug 1;31(2):578–85. Available from: <https://doi.org/10.1086/313947>

73. Children's Hospital of Philadelphia. Antibody-dependent Enhancement (ADE) and Vaccines [Internet]. Available from: <https://www.chop.edu/centers-programs/vaccine-education-center/vaccine-safety/antibody-dependent-enhancement-and-vaccines>
74. Pietrobon AJ, Teixeira FME, Sato MN. Immunosenescence and Inflammaging: Risk Factors of Severe COVID-19 in Older People. *Front Immunol* [Internet]. 2020; Available from: <https://www.frontiersin.org/articles/10.3389/fimmu.2020.579220/full>
75. Xia S, Zhang X, Zheng S, Khanabdali R, Kalionis B, Wu J, et al. An Update on Inflamm-Aging: Mechanisms, Prevention, and Treatment. *J Immunol Res* [Internet]. 2016;2016. Available from: <https://downloads.hindawi.com/journals/jir/2016/8426874.pdf>
76. Domingues R, Lippi A, Setz C, Outeiro TF, Krisko A. SARS-CoV-2, immunosenescence and inflammaging: partners in the COVID-19 crime. *Aging (Albany NY)*. 2020 Sep;12(18):18778–89.
77. Pan A, Liu L, Wang C, Guo H, Hao X, Wang Q, et al. Association of Public Health Interventions With the Epidemiology of the COVID-19 Outbreak in Wuhan, China. *JAMA*. 2020 May;323(19):1915–23.
78. Zhou F, Yu T, Du R, Fan G, Liu Y, Liu Z, et al. Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study. *Lancet (London, England)*. 2020 Mar;395(10229):1054–62.
79. Pivonello R, Auriemma RS, Pivonello C, Isidori AM, Corona G, Colao A, et al. Sex Disparities in COVID-19 Severity and Outcome: Are Men Weaker or Women Stronger? *Neuroendocrinology* [Internet]. 2021;111(11):1066–85. Available from: <https://www.karger.com/DOI/10.1159/000513346>
80. Hirai N, Nishioka Y, Sekine T, Nishihara Y, Okuda N, Nishimura T, et al. Factors associated with viral clearance periods from patients with COVID-19: A retrospective observational cohort study. *J Infect Chemother* [Internet]. 2021;27(6):864–8. Available from: <https://www.sciencedirect.com/science/article/pii/S1341321X21000556>
81. Qi L, Yang Y, Jiang D, Tu C, Wan L, Chen X, et al. Factors associated with the duration of viral shedding in adults with COVID-19 outside of Wuhan, China: a retrospective cohort study. *Int J Infect Dis* [Internet]. 2020/05/17. 2020 Jul;96:531–7. Available from: <https://pubmed.ncbi.nlm.nih.gov/32425636>
82. Centers for disease control and Prevention. Weekly Updates by Select Demographic and Geographic Characteristics [Internet]. 2021. Available from:

https://www.cdc.gov/nchs/nvss/vsrr/covid_weekly/index.htm

83. Davies NG, Klepac P, Liu Y, Prem K, Jit M, Pearson CAB, et al. Age-dependent effects in the transmission and control of COVID-19 epidemics. *Nat Med* [Internet]. 2020;26(8):1205–11. Available from: <https://doi.org/10.1038/s41591-020-0962-9>
84. Singanayagam A, Patel M, Charlett A, Lopez Bernal J, Saliba V, Ellis J, et al. Duration of infectiousness and correlation with RT-PCR cycle threshold values in cases of COVID-19, England, January to May 2020. *Euro Surveill Bull Eur sur les Mal Transm = Eur Commun Dis Bull*. 2020 Aug;25(32).
85. Landry ML. Your Coronavirus Test is Positive. Maybe It Shouldn't Be. *New York Times* [Internet]. 2020; Available from: https://medicine.yale.edu/labmed/sections/virology/COVID-19/Ct_values_YNHH_Aug_2020_395430_36854_v1.pdf
86. Sugiyono. *Metodologi Penelitian Kuantitatif Kualitatif*. 2nd ed. Bandung: Alfabeta; 2019.
87. Al Amin M, Juniati D. Klasifikasi Kelompok Umur Manusia Berdasarkan Analisis Dimensi Fraktal Box Counting Dari Citra Wajah dengan Deteksi Tepi Canny. *J Ilm Mat* [Internet]. 2017;2(6). Available from: <https://jurnalmahasiswa.unesa.ac.id/index.php/mathunesa/article/view/19398>
88. World Health Organization. WHO Director-General's opening remarks at the media briefing on COVID-19 - 24 February 2020 [Internet]. 2020. Available from: <https://www.who.int/director-general/speeches/detail/who-director-general-s-opening-remarks-at-the-media-briefing-on-covid-19---24-february-2020>
89. van Kampen JJA, van de Vijver DAMC, Fraaij PLA, Haagmans BL, Lamers MM, Okba N, et al. Duration and key determinants of infectious virus shedding in hospitalized patients with coronavirus disease-2019 (COVID-19). *Nat Commun* [Internet]. 2021;12(1):267. Available from: <https://doi.org/10.1038/s41467-020-20568-4>