

FULL LIST OF VERDI PUBLICATIONS As of 20 May 2024

2024

1. Di Chiara, C., Cantarutti, A., Raffaella Petrara, M., Bonfante, F., Benetti, E., Boracchini, R., Bosa, L., Carmona, F., Cosma, C., Cotugno, N., Le Prevost, M., Martini, G., Meneghel, A., Pagliari, M., Palma, P., Ruffoni, E., Zin, A., De Rossi, A., Giaquinto, C., Donà, D., ... Padoan, A. (2024). **Stronger and durable SARS-CoV-2 immune response to mRNA vaccines in 5-11 years old children with prior COVID-19.** *Vaccine*, 42(2), 263–270. <https://doi.org/10.1016/j.vaccine.2023.12.006>
2. Bekker, C., Dewandel, I., Redfern, A., McKenzie, C., Lishman, J., Verhagen, L.M., Claassen, M., Wilson, S., Dunbar, R., Bosch, C., van Zyl, G., Preiser, W., Goussard, P., Rabie, H., van der Zalm, M.M. (2024). **Clinical spectrum of disease and outcomes in children with Omicron SARS-COV-2 infection in Cape Town, South Africa.** *IJTDL OPEN*, 1(1), 27-33. <https://doi.org/10.5588/ijtldopen.23.0053>
3. Minotti, C., McKenzie, C., Dewandel, I., Bekker, C., Sturniolo, G., Doni, D., Giaquinto, C., Van Der Zalm, M. M., & Donà, D. (2024). **How does post COVID differ from other post-viral conditions in childhood and adolescence (0-20 years old)? A systematic review.** *EClinicalMedicine*, 68, 102436. <https://doi.org/10.1016/j.eclinm.2024.102436>
4. Boldea, O., Alipoor, A., Pei, S., Shaman, J., Rozhnova, G. (2024). **Age-specific transmission dynamics of SARS-CoV-2 during the first 2 years of the pandemic,** *PNAS Nexus*, 3(2), pgae024. <https://doi.org/10.1093/pnasnexus/pgae024>
5. Di Chiara, C., Boracchini, R., Cantarutti, A., Kakkar, F., Oletto, A., Padoan, A., Donà, D., & Giaquinto, C. (2024). **Risk of SARS-CoV-2 Reinfection in Children Within the 12 Months Following Mild COVID-19: Insights From a Survey Study.** *The Pediatric infectious disease journal*, 43(4), e128–e130. <https://doi.org/10.1097/INF.0000000000004233>
6. Kehoe, K., Morden, E., Zinyakatira, N., Heekes, A., Jones, H. E., Walter, S. R., Jacobs, T., Murray, J., Buys, H., Redaniel, M. T., & Davies, M.-A. (2024). **Lower respiratory tract infection admissions and deaths among children under 5 years in public sector facilities in the Western Cape Province, South Africa, before and during the COVID-19 pandemic (2019 - 2021).** *South African Medical Journal*, 114(3), e1560. <https://doi.org/10.7196/SAMJ.2024.v114i3.1560>
7. Anthony MG, Hoddinott G, Van Niekerk M, Dewandel I, McKenzie C, et al. (2024) **The socioeconomic impact of the COVID-19 lockdown on families affected by childhood respiratory illnesses in Cape Town, South Africa.** *PLOS Global Public Health*, 4(3): e0003020. <https://doi.org/10.1371/journal.pgph.0003020>
8. Guzzetta, G., Marziano, V., Mammone, A., Siddu, A., Ferraro, F., Caraglia, A., Maraglino, F., Rezza, G., Vespignani, A., Longini, I., Ajelli, M., & Merler, S. (2024). **The decline of the 2022 Italian mpox epidemic: Role of behavior changes and control strategies.** *Nature communications*, 15(1), 2283. <https://doi.org/10.1038/s41467-024-46590-4>

9. Orangzeb, S., Desalegn, A., Trinh, N. T. H., Zhao, J., Nordeng, H., & Lupattelli, A. (2024). **COVID-19 vaccine uptake among children and adolescents in Norway: A comprehensive registry-based cohort study of over 800,000 individuals.** *Vaccine*, S0264-410X(24)00464-X. Advance online publication. <https://doi.org/10.1016/j.vaccine.2024.04.039>

2023

10. Minotti, C., Mengato, D., De Pieri, M., Trivellato, S., Francavilla, A., Di Chiara, C., Liberati, C., Mattera, R., Biffi, A., Giaquinto, C., Venturini, F., & Donà, D. (2023). **Early Treatments of Fragile Children with COVID-19-Results of CLEVER (Children COVID Early Treatment), a Retrospective, Observational Study.** *Viruses*, 15(1), 192. <https://doi.org/10.3390/v15010192>
11. Donà, D., Minotti, C., Masini, T., Penazzato, M., Van Der Zalm, M. M., Judd, Ali., Giaquinto, C., Lallemand, M., & Survey Respondents Consortium. (2023). **COVID-19 and MIS-C treatment in children—results from an international survey.** *European Journal of Pediatrics*. <https://doi.org/10.1007/s00431-023-05179-7>
12. Manica, M., Poletti, P., Deandrea, S., Mosconi, G., Ancarani, C., Lodola, S., Guzzetta, G., d'Andrea, V., Marziano, V., Zardini, A., Trentini, F., Odone, A., Tirani, M., Ajelli, M., & Merler, S. (2023). **Estimating SARS-CoV-2 transmission in educational settings: A retrospective cohort study.** *Influenza and other respiratory viruses*, 17(1), e13049. <https://doi.org/10.1111/irv.13049>
13. Van Der Zalm, M. M., Dona', D., & Rabie, H. (2023). **Pediatric coronavirus disease 2019 in Africa.** *Current opinion in pediatrics*, 35(2), 176–183. <https://doi.org/10.1097/MOP.0000000000001230>
14. Wittwer, S., Paolotti, D., Lichand, G., & Leal Neto, O. (2023). **Participatory Surveillance for COVID-19 Trend Detection in Brazil: Cross-sectional Study.** *JMIR public health and surveillance*, 9, e44517. <https://doi.org/10.2196/44517>
15. Colosi, E., Bassignana, G., Barrat, A., Lina, B., Vanhems, P., Bielicki, J., & Colizza, V. (2023). **Minimising school disruption under high incidence conditions due to the Omicron variant in France, Switzerland, Italy, in January 2022.** *Euro surveillance : bulletin Europeen sur les maladies transmissibles = European communicable disease bulletin*, 28(5), 2200192. <https://doi.org/10.2807/1560-7917.ES.2023.28.5.2200192>
16. Davies M. A., Morden, E., Rousseau, P., Arendse, J., Bam, J. L., Boloko, L., Cloete, K., Cohen, C., Chetty, N., Dane, P., Heekes, A., Hsiao, N. Y., Hunter, M., Hussey, H., Jacobs, T., Jassat, W., Kariem, S., Kassanje, R., ... (2023). **Outcomes of laboratory-confirmed SARS-CoV-2 infection during resurgence driven by Omicron lineages BA.4 and BA.5 compared with previous waves in the Western Cape Province, South Africa.** *International Journal of Infectious Diseases*, 127, 63-68, <https://doi.org/10.1016/j.ijid.2022.11.024>
17. Kremer, C., Torneri, A., Libin, P. J. K., Meex, C., Hayette, M. P., Bontems, S., Durkin, K., Artesi, M., Bours, V., Lemey, P., Darcis, G., Hens, N., Meuris, C. (2023). **Reconstruction of SARS-CoV-2 outbreaks in a primary school using epidemiological and genomic data.** *Epidemics*, 44, 100701, <https://doi.org/10.1016/j.epidem.2023.100701>
18. Kassanje, R., Davies, M. A., Ngwenya, O., Osei-Yeboah, R., Jacobs, T., Morden, E., Timmerman, V., Britz, S., Mendelson, M., Taljaard, J., Riou, J., Boulle, A., Tiffin, N., & Zinyakatira, N. (2023). **COVID-19 among adults living with HIV: correlates of mortality**

- among public sector healthcare users in Western Cape, South Africa. *Journal of the International AIDS Society*, 26(6), e26104. <https://doi.org/10.1002/jia2.26104>
19. Di Chiara, C., Boracchini, R., Sturniolo, G., Barbieri, A., Costenaro, P., Cozzani, S., De Pieri, M., Liberati, C., Zin, A., Padoan, A., Bonfante, F., Kakkar, F., Cantarutti, A., Donà, D., & Giaquinto, C. (2023). **Clinical features of COVID-19 in Italian outpatient children and adolescents during Parental, Delta, and Omicron waves: a prospective, observational, cohort study.** *Frontiers in pediatrics*, 11, 1193857. <https://doi.org/10.3389/fped.2023.1193857>
 20. Menegale, F., Manica, M., Zardini, A., Guzzetta, G., Marziano, V., d'Andrea, V., Trentini, F., Ajelli, M., Poletti, P., & Merler, S. (2023). **Evaluation of Waning of SARS-CoV-2 Vaccine-Induced Immunity: A Systematic Review and Meta-analysis.** *JAMA network open*, 6(5), e2310650. <https://doi.org/10.1001/jamanetworkopen.2023.10650>
 21. Redfern, A., van der Zalm, M. M., Lishman, J., Goussard, P., Smit, L., Dagan, R., Barday, M., Mare, M., Claassen, M., Van Zyl, G., Rabie, H., & Verhagen, L. M. (2023). **Clinical Presentation and Outcome of Acute Respiratory Illnesses in South African Children During the COVID-19 Pandemic.** *The Pediatric infectious disease journal*, 42(8), 672–678. <https://doi.org/10.1097/INF.0000000000003951>
 22. Rouzine, I. M., & Rozhnova, G. (2023). **Evolutionary implications of SARS-CoV-2 vaccination for the future design of vaccination strategies.** *Communications medicine*, 3(1), 86. <https://doi.org/10.1038/s43856-023-00320-x>
 23. de Meijere, G., Valdano, E., Castellano, C., Debin, M., Kengne-Kuetche, C., Turbelin, C., Noël, H., Weitz, J. S., Paolotti, D., Hermans, L., Hens, N., & Colizza, V. (2023). **Attitudes towards booster, testing and isolation, and their impact on COVID-19 response in winter 2022/2023 in France, Belgium, and Italy: a cross-sectional survey and modelling study.** *The Lancet regional health. Europe*, 28, 100614. <https://doi.org/10.1016/j.lanepe.2023.100614>
 24. Molina Grané, C., Mancuso, P., Vicentini, M., Venturelli, F., Djuric, O., Manica, M., Guzzetta, G., Marziano, V., Zardini, A., d'Andrea, V., Trentini, F., Bisaccia, E., Larosa, E., Cilloni, S., Cassinadri, M. T., Pezzotti, P., Ajelli, M., Rossi, P. G., Merler, S., & Poletti, P. (2023). **SARS-CoV-2 transmission patterns in educational settings during the Alpha wave in Reggio-Emilia, Italy.** *Epidemics*, 44, 100712. <https://doi.org/10.1016/j.epidem.2023.100712>
 25. Westerhof, I., de Hoog, M., Ieven, M., Lammens, C., van Beek, J., Rozhnova, G., Eggink, D., Euser, S., Wildenbeest, J., Duijts, L., van Houten, M., Goossens, H., Giaquinto, C., & Bruijning-Verhagen, P. (2023). **The impact of variant and vaccination on SARS-CoV-2 symptomatology; three prospective household cohorts.** *International journal of infectious diseases : IJID : official publication of the International Society for Infectious Diseases*, 128, 140–147. <https://doi.org/10.1016/j.ijid.2022.12.018>
 26. De Gaetano, A., Bajardi, P., Gozzi, N., Perra, N., Perrotta, D., & Paolotti, D. (2023). **Behavioral Changes Associated With COVID-19 Vaccination: Cross-National Online Survey.** *Journal of medical Internet research*, 25, e47563. <https://doi.org/10.2196/47563>
 27. Valdano, E., Colombi, D., Poletto, C., & Colizza, V. (2023). **Epidemic graph diagrams as analytics for epidemic control in the data-rich era.** *Nature communications*, 14(1), 8472. <https://doi.org/10.1038/s41467-023-43856-1>
 28. Hermans, L. E., Booyesen, P., Boloko, L., Adriaanse, M., de Wet, T. J., Lifson, A. R., Wade, N., Papavarnavas, N., Marais, G., Hsiao, N. Y., Rosslee, M. J., Symons, G., Calligaro, G. L.,

Iranzadeh, A., Wilkinson, R. J., Ntusi, N. A. B., Williamson, C., Davies, M. A., Meintjes, G., & Wasserman, S. (2023). **Changing character and waning impact of COVID-19 at a tertiary centre in Cape Town, South Africa.** *Southern African journal of infectious diseases*, 38(1), 550. <https://doi.org/10.4102/sajid.v38i1.550>

2022

29. Kremer, C., Braeye, T., Proesmans, K., André, E., Torneri, A., & Hens, N. (2022). **Serial Intervals for SARS-CoV-2 Omicron and Delta Variants, Belgium, November 19-December 31, 2021.** *Emerging infectious diseases*, 28(8), 1699–1702. <https://doi.org/10.3201/eid2808.220220>
30. Colosi, E., Bassignana, G., Barrat, A., & Colizza, V. (2022). **Modelling COVID-19 in school settings to evaluate prevention and control protocols.** *Anaesthesia, critical care & pain medicine*, 41(2), 101047. <https://doi.org/10.1016/j.accpm.2022.101047>
31. Hussey, H., Davies, M. A., Heekes, A., Williamson, C., Valley-Omar, Z., Hardie, D., Korsman, S., Doolabh, D., Preiser, W., Maponga, T., Iranzadeh, A., Wasserman, S., Boloko, L., Symons, G., Raubenheimer, P., Parker, A., Schrueder, N., Solomon, W., Rousseau, P., Wolter, N., ... Hsiao, N. Y. (2022). **Assessing the clinical severity of the Omicron variant in the Western Cape Province, South Africa, using the diagnostic PCR proxy marker of RdRp target delay to distinguish between Omicron and Delta infections - a survival analysis.** *International journal of infectious diseases : IJID : official publication of the International Society for Infectious Diseases*, 118, 150–154. <https://doi.org/10.1016/j.ijid.2022.02.051>
32. Kretzschmar, M. E., Ashby, B., Fearon, E., Overton, C. E., Panovska-Griffiths, J., Pellis, L., Quaife, M., Rozhnova, G., Scarabel, F., Stage, H. B., Swallow, B., Thompson, R. N., Tildesley, M. J., & Vilella, D. (2022). **Challenges for modelling interventions for future pandemics.** *Epidemics*, 38, 100546. <https://doi.org/10.1016/j.epidem.2022.100546>
33. Di Chiara, C., Mengato, D., De Pieri, M., Longo, G., Benetti, E., Venturini, F., Giaquinto, C., & Donà, D. (2022). **Early Use of Sotrovimab in Children: A Case Report of an 11-Year-Old Kidney Transplant Recipient Infected with SARS-CoV-2.** *Children (Basel, Switzerland)*, 9(4), 451. <https://doi.org/10.3390/children9040451>
34. Colosi, E., Bassignana, G., Contreras, D. A., Poirier, C., Boëlle, P. Y., Cauchemez, S., Yazdanpanah, Y., Lina, B., Fontanet, A., Barrat, A., & Colizza, V. (2022). **Screening and vaccination against COVID-19 to minimise school closure: a modelling study.** *The Lancet. Infectious diseases*, 22(7), 977–989. [https://doi.org/10.1016/S1473-3099\(22\)00138-4](https://doi.org/10.1016/S1473-3099(22)00138-4)
35. Davies, M. A., Kassanjee, R., Rousseau, P., Morden, E., Johnson, L., Solomon, W., Hsiao, N. Y., Hussey, H., Meintjes, G., Paleker, M., Jacobs, T., Raubenheimer, P., Heekes, A., Dane, P., Bam, J. L., Smith, M., Preiser, W., Pienaar, D., Mendelson, M., Naude, J., ... Western Cape and South African National Departments of Health in collaboration with the National Institute for Communicable Diseases in South Africa Affiliations (2022). **Outcomes of laboratory-confirmed SARS-CoV-2 infection in the Omicron-driven fourth wave compared with previous waves in the Western Cape Province, South Africa.** *Tropical medicine & international health : TM & IH*, 27(6), 564–573. <https://doi.org/10.1111/tmi.13752>
36. Contreras, D. A., Colosi, E., Bassignana, G., Colizza, V., & Barrat, A. (2022). **Impact of contact data resolution on the evaluation of interventions in mathematical models of**

- infectious diseases.** *Journal of the Royal Society, Interface*, 19(191), 20220164.
<https://doi.org/10.1098/rsif.2022.0164>
37. Cohen-Stavi, C. J., Magen, O., Barda, N., Yaron, S., Peretz, A., Netzer, D., Giaquinto, C., Judd, A., Leibovici, L., Hernán, M. A., Lipsitch, M., Reis, B. Y., Balicer, R. D., & Dagan, N. (2022). **BNT162b2 Vaccine Effectiveness against Omicron in Children 5 to 11 Years of Age.** *The New England journal of medicine*, 387(3), 227–236.
<https://doi.org/10.1056/NEJMoa2205011>
38. Torneri, A., Willem, L., Colizza, V., Kremer, C., Meuris, C., Darcis, G., Hens, N., & Libin, P. J. K. (2022). **Controlling SARS-CoV-2 in schools using repetitive testing strategies.** *eLife*, 11, e75593. <https://doi.org/10.7554/eLife.75593>
39. Dona', D., Montagnani, C., Di Chiara, C., Venturini, E., Galli, L., Lo Vecchio, A., Denina, M., Olivini, N., Bruzzese, E., Campana, A., Giaccherio, R., Salvini, F., Meini, A., Ponzoni, M., Trapani, S., Rossi, E., Lombardi, M. H., Badolato, R., Pierri, L., Pruccoli, G., ... On Behalf Of The Italian Sitip-Sip Pediatric Sars-CoV-Infection Study Group (2022). **COVID-19 in Infants Less than 3 Months: Severe or Not Severe Disease?.** *Viruses*, 14(10), 2256.
<https://doi.org/10.3390/v14102256>
40. Sabatino, J., Di Chiara, C., Di Candia, A., Sirico, D., Donà, D., Fumanelli, J., Basso, A., Pogacnik, P., Cuppini, E., Romano, L. R., Castaldi, B., Reffo, E., Cerutti, A., Biffanti, R., Cozzani, S., Giaquinto, C., & Di Salvo, G. (2022). **Mid- and Long-Term Atrio-Ventricular Functional Changes in Children after Recovery from COVID-19.** *Journal of clinical medicine*, 12(1), 186. <https://doi.org/10.3390/jcm12010186>

Preprints

1. Pagliari, M., Mazzetto, E., Gastaldelli, M., Bortolami, A., Donà, D., Padoan, A., Di Chiara, C., Pezzani, M.D., Cosma, C., Napolitan, A., Quaranta, E.G., Giussani, E., Fusaro, A., Pascarella, M., Aita, A., Liberati, C., Lorusso, A., Monne, I., De Rossi, A., Basso, D., Porru, S., Ricci, A., Terregino, C., Plebani, M., Tacconelli, E., Giaquinto, C., Bonfante, F. (2022). **Omicron Neutralizing and Anti-SARS-CoV-2 S-RBD Antibodies in Naïve and Convalescent Populations After Homologous and Heterologous Boosting With an mRNA Vaccine.** *The Lancet preprint*. <http://dx.doi.org/10.2139/ssrn.4016530>
2. Westerhof, I., de Hoog, M., Ieven, M., Lammens, C., van Beek, J., Rozhnova, G., Eggink, D., Euser, S., Wildenbeest, J., Duijts, L., van Houten, M., Goossens, H., Giaquinto, C., Bruijning-Verhagen, P. (2022). **Symptom presentation among SARS-CoV-2 positive cases and the impact of COVID-19 vaccination; three prospective household cohorts.** *medRxiv*. <https://doi.org/10.1101/2022.08.19.22278985v2>
3. Pham, T. M., Westerhof, I., Bootsma, M. C. J., Kretzschmar, M. E., Rozhnova, G., Bruijning-Verhagen, P. (2022) **Seasonal patterns of SARS-CoV-2 transmission in secondary schools: a modelling study.** *medRxiv*. <https://doi.org/10.1101/2022.04.21.22273952>
4. Gressani, O., Torneri, A., Hens, N., Faes, C.. (2023). **Flexible Bayesian estimation of incubation times.** <https://doi.org/10.1101/2023.08.07.23293752>
5. Kassarjee, R., Davies, M. A., Heekes, A., Mahomed, H., Hawkrigde, A. J., Wolmarans, M., Morden, E., Jacobs, T., Cohen, C., Moultrie, H., Lessells, R. J., Van Der Walt, N., Arendse, J. O., Goeiman, H., Mudaly, V., Wolter, N., Walaza, S., Jassat, W., von Gottberg, A., Hannan, P. L., ... Boulle, A. (2024). **COVID-19 vaccine uptake and effectiveness by time since**



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- vaccination in the Western Cape province, South Africa: An observational cohort study during 2020-2022.** *medRxiv*. <https://doi.org/10.1101/2024.01.24.24301721>
6. De Gaetano, A., Barrat, A., Paolotti, D. (2024). **Modeling the interplay between disease spread, behaviors, and disease perception with a data-driven approach.** *medRxiv*. <https://doi.org/10.1101/2024.04.10.24305600>