

Professor Shabir Madhi

Research Outputs

PEER-REVIEWED JOURNAL ARTICLES

INDEX OF THEMATIC RESEARCH AREAS.

Topic	Reference numbers:	Pages
<i>Streptococcus pneumoniae</i>	1 to 28	2 to 5
Group B streptococcus (<i>Streptococcus agalactiae</i>)	29 to 49	5 to 8
SARS-CoV-2/COVID-19	50 to 120	8 to 16
Respiratory syncytial virus	121 to 151	16 to 20
Influenza virus	152 to 161	20 to 21
Human metapneumovirus, Rhinovirus, parainfluenza virus, enteroviruses and endemic coronavirus	162 to 166	22
Mycobacterium tuberculosis /Tuberculosis	167 to 200	22 to 26
General pneumonia	201 to 217	26 to 28
Rotavirus and diarrheal diseases	218 to 225	28 to 29
Cytomegalovirus	226 to 228	29
Paediatric HIV	229 to 230	30
Other vaccine related studies not covered elsewhere (including measles, pertussis and Haemophilus influenzae type b)	231 to 235	30
Neonatal and Childhood diseases and stillbirths	236 to 257	31 to 34
General articles on vaccines	258 to 262	34
Miscellaneous	263 to 268	35
Book Chapters	1 to 3	35

1. Belman S, Lefrancq N, Nzenze S, Downs S, du Plessis M, Lo SW; Global Pneumococcal Sequencing Consortium; McGee L, Madhi SA, von Gottberg A, Bentley SD, Salje H. Geographical migration and fitness dynamics of *Streptococcus pneumoniae*. *Nature*. 2024 Jul;631(8020):386-392. doi: 10.1038/s41586-024-07626-3. Epub 2024 Jul 3. PMID: 38961295; PMCID: PMC11236706.
2. Feng S, McLellan J, Pidduck N, Roberts N, Higgins JP, Choi Y, Izu A, Jit M, Madhi SA, Mulholland K, Pollard AJ, Procter S, Temple B, Voysey M. Immunogenicity and seroefficacy of pneumococcal conjugate vaccines: a systematic review and network meta-analysis. *Health Technol Assess*. 2024 Jul;28(34):1-109. doi: 10.3310/YWHA3079. PMID: 39046101; PMCID: PMC11284620.
3. von Gottberg A, Kleynhans J, de Gouveia L, Tempia S, Meiring S, Quan V, du Plessis M, von Mollendorf C, Crowther-Gibson P, Avenant T, du Plessis N, Kularatne R, Chibabhai V, Madhi SA, Klugman KP, Whitney CG, Cohen C; GERMS-SA. Long-term effect of pneumococcal conjugate vaccines on invasive pneumococcal disease incidence among people of all ages from national, active, laboratory-based surveillance in South Africa, 2005-19: a cohort observational study. *Lancet Glob Health*. 2024 Sep;12(9):e1470-e1484. doi: 10.1016/S2214-109X(24)00263-8. PMID: 39151982.
4. Olwage CP, Jeché TR, Van Der Merwe L, Nunes MC, **Madhi SA**, Baillie VL. Nanofluidic qPCR unable to detect and serotype *Streptococcus pneumoniae* in urine samples of hospitalized South African patients with community-acquired pneumonia. *Sci Rep*. 2023 Dec 4;13(1):21332. doi: 10.1038/s41598-023-48045-0. PMID: 38049501; PMCID: PMC10695952.
5. Downs SL, Olwage CP, Van Der Merwe L, Nzenze SA, Nunes MC, **Madhi SA**. *Streptococcus pneumoniae* and other bacterial nasopharyngeal colonization seven years post-introduction of 13-valent pneumococcal conjugate vaccine in South African children. *Int J Infect Dis*. 2023 Sep;134:45-52. doi: 10.1016/j.ijid.2023.05.016. Epub 2023 May 19. PMID: 37209864; PMCID: PMC10404162.
6. Feng S, McLellan J, Pidduck N, Roberts N, Higgins JPT, Choi Y, Izu A, Jit M, **Madhi SA**, Mulholland K, Pollard AJ, Temple B, Voysey M. Immunogenicity and seroefficacy of 10-valent and 13-valent pneumococcal conjugate vaccines: a systematic review and network meta-analysis of individual participant data. *EClinicalMedicine*. 2023 Jul 1;61:102073. doi: 10.1016/j.eclinm.2023.102073. PMID: 37425373; PMCID: PMC10328810.
7. Downs SL, Olwage CP, Van Der Merwe L, Nzenze SA, Nunes MC, **Madhi SA**. *Streptococcus pneumoniae* and other bacterial nasopharyngeal colonization seven years post-introduction of 13-valent pneumococcal conjugate vaccine in South African children. *Int J Infect Dis*. 2023 May 19;134:45-52. doi: 10.1016/j.ijid.2023.05.016. Epub ahead of print. PMID: 37209864
8. Downs SL, **Madhi SA**, Van Der Merwe L, Nunes MC, Olwage CP. Optimization of a high-throughput nanofluidic real-time PCR to detect and quantify of 15 bacterial species and 92 *Streptococcus pneumoniae* serotypes. *Sci Rep*. 2023 Mar 21;13(1):4588. doi: 10.1038/s41598-023-31820-4. PMID: 36944704; PMCID: PMC10030628.
9. Wilck M, Barnabas S, Chokephaibulkit K, Violari A, Kosalaraksa P, Yesypenko S, Chukhalova I, Dagan R, Richmond P, Mikviman E, Morgan L, Feemster K, Lupinacci R, Chiarappa J, **Madhi SA**, Bickham K, Musey L; V114-030 Study Group. A phase 3 study of safety and immunogenicity of V114, a 15-valent PCV, followed by PPSV23, in children living with HIV. *AIDS*. 2023 Mar 20;37(8):1227-7. doi:10.1097/QAD.0000000000003551. PMID: 36939067; PMCID: PMC10241418.

10. Olwage CP, Izu A, Mutsaerts EAML, Jose L, Koen A, Downs SL, Van Der Merwe L, Laubscher M, Nana AJ, Moultrie A, Cutland CL, Dorfman JR, **Madhi SA**. Single priming and booster dose of ten-valent and 13-valent pneumococcal conjugate vaccines and *Streptococcus pneumoniae* colonisation in children in South Africa: a single-centre, open-label, randomised trial. *Lancet Child Adolesc Health*. 2023 May;7(5):326-335. doi: 10.1016/S2352-4642(23)00025-1. Epub 2023 Mar 16. PMID: 36934731; PMCID: PMC10127219.
11. Belman S, Lefrancq N, Nzenze S, Downs S, du Plessis M, Lo S; Global Pneumococcal Sequencing Consortium; McGee L, **Madhi SA**, von Gottberg A, Bentley SD, Salje H. Geographic migration and vaccine-induced fitness changes of *Streptococcus pneumoniae*. *bioRxiv [Preprint]*. 2023 Jan 18:2023.01.18.524577. doi: 10.1101/2023.01.18.524577. PMID: 36711799; PMCID:PMC9882368.
12. Gladstone RA, Siira L, Brynildsrud OB, Vestrheim DF, Turner P, Clarke SC, Srifuengfung S, Ford R, Lehmann D, Egorova E, Voropaeva E, Haraldsson G, Kristinsson KG, McGee L, Breiman RF, Bentley SD, Sheppard CL, Fry NK, Corander J, Toropainen M, Steens A; Global Pneumococcal Sequencing Consortium. International links between *Streptococcus pneumoniae* vaccine serotype 4 sequence type (ST) 801 in Northern European shipyard outbreaks of invasive pneumococcal disease. *Vaccine*. 2022 Feb 11;40(7):1054-1060. doi: 10.1016/j.vaccine.2021.10.046. Epub 2022 Jan 5. PMID: 34996643; PMCID: PMC8820377
[Part of Group Authorship]
13. Javaid N, Olwage C, Nzenze S, Hawkins P, Gladstone R, McGee L, Breiman RF, Bentley SD, **Madhi SA**, Lo S. Population genomics of pneumococcal carriage in South Africa following the introduction of the 13-valent pneumococcal conjugate vaccine (PCV13) immunization. *Microb Genom*. 2022 Jun;8(6). doi: 10.1099/mgen.0.000831. PMID: 35737523.
14. **Madhi SA**, Van Der Merwe L, Nunes MC, Olwage CP. High-throughput nanofluidic real-time PCR to discriminate Pneumococcal Conjugate Vaccine (PCV)-associated serogroups 6, 18, and 22 to serotypes using modified oligonucleotides. *Sci Rep*. 2021 Dec 9;11(1):23728. doi: 10.1038/s41598-021-03127-9. PMID: 34887480; PMCID: PMC8660885.
15. Park DE, Higdon MM, Prosperi C, Baggett HC, Brooks WA, Feikin DR, Hammitt LL, Howie SRC, Kotloff KL, Levine OS, **Madhi SA**, Murdoch DR, O'Brien KL, Scott JAG, Thea DM, Antonio M, Awori JO, Baillie VL, Bunthi C, Kwenda G, Mackenzie GA, Moore DP, Morpeth SC, Mwananyanda L, Paveenkittiporn W, Ziaur Rahman M, Rahman M, Rhodes J, Sow SO, Tapia MD, Deloria Knoll M. Upper Respiratory Tract Co-detection of Human Endemic Coronaviruses and High-density Pneumococcus Associated With Increased Severity Among HIV-Uninfected Children Under 5 Years Old in the PERCH Study. *Pediatr Infect Dis J*. 2021 Jun 1;40(6):503-512. doi: 10.1097/INF.0000000000003139. PMID: 33883479; PMCID: PMC8104011.
16. Njuma Libwea J, Fletcher MA, Koki Ndombo P, Boula A, Ashukem NT, Ngo Baleba M, Kingue Bebey RS, Nkolo Mviena EG, Taguebe J, Kobela Mbollo M, Koulla-Shiro S, **Madhi SA**, Njanpop-Lafourcade BM, Mohammad A, Begier E, Southern J, Beavon R, Gessner B. Impact of 13-valent pneumococcal conjugate vaccine on laboratory-confirmed pneumococcal meningitis and purulent meningitis among children <5 years in Cameroon, 2011-2018. *PLoS One*. 2021 Apr 15;16(4):e0250010. doi: 10.1371/journal.pone.0250010. Erratum in: *PLoS One*. 2021 Jul 9;16(7):e0254616. PMID: 33857235; PMCID: PMC8049353.
17. **Madhi SA**, Knoll MD. An affordable pneumococcal conjugate vaccine after 20 years. *Lancet Infect Dis*. 2021 Jun;21(6):751-753. doi: 10.1016/S1473-3099(21)00002-5. Epub 2021 Jan 28. PMID: 33516294.(Invited commentary)
18. Nunes MC, Cutland CL, Klugman KP, **Madhi SA**. Pneumococcal Conjugate Vaccine Protection against Coronavirus-Associated Pneumonia Hospitalization in Children Living

- with and without HIV. *mBio*. 2021 Jan 8;12(1):e02347-20. doi: 10.1128/mBio.02347-20. PMID: 33419872; PMCID: PMC7845626.
19. Nunes MC, Moreira M, Koen A, van Niekerk N, Jose L, Cutland CL, François N, Schoonbroodt S, Ruiz-Guiñazú J, Yarzabal JP, Borys D, Schuerman L, **Madhi SA**. Bacterial nasopharyngeal carriage following infant immunization with pneumococcal conjugate vaccines according to a 2+1 schedule in children in South Africa: an exploratory analysis of two clinical trials. *Expert Rev Vaccines*. 2020 Dec;19(12):1177-1189. doi: 10.1080/14760584.2020.1853533. Epub 2020 Dec 21. PMID: 33245004.
 20. **Madhi SA**, Mutsaerts EA, Izu A, Boyce W, Bhikha S, Ikulinda BT, Jose L, Koen A, Nana AJ, Moultrie A, Roalfe L, Hunt A, Goldblatt D, Cutland CL, Dorfman JR. Immunogenicity of a single-dose compared with a two-dose primary series followed by a booster dose of ten-valent or 13-valent pneumococcal conjugate vaccine in South African children: an open-label, randomised, non-inferiority trial. *Lancet Infect Dis*. 2020 Dec;20(12):1426-1436. doi: 10.1016/S1473-3099(20)30289-9. Epub 2020 Aug 25. Erratum in: *Lancet Infect Dis*. 2020 Nov;20(11):e275. PMID: 32857992; PMCID: PMC7689288.
 21. Smith EL, Wheeler I, Adler H, Ferreira DM, Sá-Leão R, Abdullahi O, Adetifa I, Becker-Dreps S, Esposito S, Farida H, Kandasamy R, Mackenzie GA, Nuorti JP, Nzenze S, **Madhi SA**, Ortega O, Roca A, Safari D, Schaumburg F, Usuf E, Sanders EAM, Grant LR, Hammitt LL, O'Brien KL, Gounder P, Bruden DJT, Stanton MC, Rylance J. Upper airways colonisation of *Streptococcus pneumoniae* in adults aged 60 years and older: A systematic review of prevalence and individual participant data meta-analysis of risk factors. *J Infect*. 2020 Oct;81(4):540-548. doi: 10.1016/j.jinf.2020.06.028. Epub 2020 Jun 17. PMID: 32562794; PMCID: PMC7532703.
 22. Lo SW, Mellor K, Cohen R, Alonso AR, Belman S, Kumar N, Hawkins PA, Gladstone RA, von Gottberg A, Veeraraghavan B, Ravikumar KL, Kandasamy R, Pollard SAJ, Saha SK, Bigogo G, Antonio M, Kwambana-Adams B, Mirza S, Shakoob S, Nisar I, Cornick JE, Lehmann D, Ford RL, Sigauque B, Turner P, Moïsi J, Obaro SK, Dagan R, Diawara I, Skocznyńska A, Wang H, Carter PE, Klugman KP, Rodgers G, Breiman RF, McGee L, Bentley SD, Muñoz-Almagro C, Varon E; Global Pneumococcal Sequencing Consortium. Emergence of a multidrug-resistant and virulent *Streptococcus pneumoniae* lineage mediates serotype replacement after PCV13: an international whole-genome sequencing study. *Lancet Microbe*. 2022 Oct;3(10):e735-e743. doi: 10.1016/S2666-5247(22)00158-6. Epub 2022 Aug 16. PMID: 35985351; PMCID: PMC9519462. **[Part of Group Authorship]**
 23. D'Aeth JC, van der Linden MP, McGee L, de Lencastre H, Turner P, Song JH, Lo SW, Gladstone RA, Sá-Leão R, Ko KS, Hanage WP, Breiman RF, Beall B, Bentley SD, Croucher NJ; GPS Consortium. The role of interspecies recombination in the evolution of antibiotic-resistant pneumococci. *Elife*. 2021 Jul 14;10:e67113. doi: 10.7554/eLife.67113. PMID: 34259624; PMCID: PMC8321556. **[Part of Group Authorship]**
 24. Gladstone RA, Lo SW, Goater R, Yeats C, Taylor B, Hadfield J, Lees JA, Croucher NJ, van Tonder AJ, Bentley LJ, Quah FX, Blaschke AJ, Pershing NL, Byington CL, Balaji V, Hryniewicz W, Sigauque B, Ravikumar KL, Almeida SCG, Ochoa TJ, Ho PL, du Plessis M, Ndlangisa KM, Cornick JE, Kwambana-Adams B, Benisty R, Nzenze SA, **Madhi SA**, Hawkins PA, Pollard AJ, Everett DB, Antonio M, Dagan R, Klugman KP, von Gottberg A, Metcalf BJ, Li Y, Beall BW, McGee L, Breiman RF, Aanensen DM, Bentley SD; The Global Pneumococcal Sequencing Consortium. Visualizing variation within Global Pneumococcal Sequence Clusters (GPSCs) and country population snapshots to contextualize pneumococcal isolates. *Microb Genom*. 2020 May;6(5):e000357. doi: 10.1099/mgen.0.000357. Epub 2020 Apr 29. PMID: 32375991; PMCID: PMC7371119

25. **Madhi SA**, Nzenze SA, Nunes MC, Chinyanganya L, Van Niekerk N, Kahn K, Twine R, De Gouveia L, Von Gottberg A, Shiri T. Residual colonization by vaccine serotypes in rural South Africa four years following initiation of pneumococcal conjugate vaccine immunization. *Expert Rev Vaccines*. 2020 Apr;19(4):383-393. doi: 10.1080/14760584.2020.1750377. Epub 2020 Apr 10. PMID: 32237932.
26. Nunes MC, Kim S, Zeldow B, Violari A, Dittmer S, Cassim H, Thomas T, van Niekerk N, Cotton MF, Mitchell C, Adrian P, **Madhi SA**; P1041 team. Streptococcus pneumoniae colonization in pneumococcal vaccine-naïve human immunodeficiency virus-exposed and -uninfected South African children. *Medicine (Baltimore)*. 2020 Feb;99(9):e19353. doi: 10.1097/MD.00000000000019353. PMID: 32118776; PMCID: PMC7478396.
27. **Madhi SA**, Izu A, Violari A, Cotton MF, Jean-Philippe P, Otwombe K, Adrian PV; CIPRA 4 team. Effect of HIV-exposure and timing of antiretroviral treatment initiation in children living with HIV on antibody persistence and memory responses to Haemophilus influenzae type b and pneumococcal polysaccharide-protein conjugate vaccines. *Vaccine*. 2020 Mar 10;38(12):2651-2659. doi: 10.1016/j.vaccine.2020.02.026. Epub 2020 Feb 15. PMID: 32070681.
28. Kwambana-Adams BA, Mulholland EK, Satzke C; ISPPD group. State-of-the-art in the pneumococcal field: Proceedings of the 11th International Symposium on Pneumococci and Pneumococcal Diseases (ISPPD-11). *Pneumonia (Nathan)*. 2020 Feb 5;12:2. doi: 10.1186/s41479-019-0064-y. PMID: 32042572; PMCID: PMC7001343. **[Part of Group Authorship]**
29. **Madhi SA**, Moreira M, Koen A, van Niekerk N, de Gouveia L, Jose L, Cutland CL, François N, Schoonbroodt S, Ruiz-Guiñazú J, Yarzabal JP, Borys D, Schuerman L. Impact of HIV status and vaccination schedule on bacterial nasopharyngeal carriage following infant immunisation with the pneumococcal non-typeable Haemophilus influenzae protein D conjugate vaccine in South Africa. *Vaccine*. 2020 Feb 28;38(10):2350-2360. doi: 10.1016/j.vaccine.2020.01.062. Epub 2020 Feb 5. PMID: 32035706.
30. Feldman C, Dlamini SK, **Madhi SA**, Meiring S, von Gottberg A, de Beer JC, de Necker M, Stander MP. The cost-effectiveness of using pneumococcal conjugate vaccine (PCV13) versus pneumococcal polysaccharide vaccine (PPSV23), in South African adults. *PLoS One*. 2020 Jan 29;15(1):e0227945. doi: 10.1371/journal.pone.0227945. PMID: 31995597; PMCID: PMC6988977.

Group B streptococcus / <i>Streptococcus agalactiae</i>
--

31. Kwatra G, Izu A, Cutland C, Akaba G, Ali MM, Ahmed Z, Beck MM, Barsosio HC, Berkley JA, Chaka TE, Cossa A, Chakraborty S, Dhar N, Dorji P, Islam M, Keita AM, Mwakio S, Mwarumba S, Medugu N, Mucavele H, Mabombo V, Obaro S, Sigauque B, Sow SO, Saha SK, Santhanam S, Sharma R, Simoes EAF, Sahni RD, Tapia MD, Veeraraghavan B, Madhi SA. Prevalence of group B Streptococcus colonisation in mother-newborn dyads in low-income and middle-income south Asian and African countries: a prospective, observational study. *Lancet Microbe*. 2024 Aug 20:100897. doi: 10.1016/S2666-5247(24)00129-0. Epub ahead of print. PMID: 39178870.
32. Ji W, Zhou H, Li J, Britto CD, Liu Z, Zhang W, Du J, **Madhi SA**, Kwatra G, Dangor Z, Jin Z, Zhao H, Zhao Y, Fang Y, Li J. Distributions of candidate vaccine Targets, virulence Factors, and resistance features of invasive group B Streptococcus using Whole-Genome Sequencing: A

- Multicenter, population-based surveillance study. *Vaccine*. 2024 Jun 11;42(16):3564-3571. doi: 10.1016/j.vaccine.2024.04.062. Epub 2024 Apr 30. PMID: 38692955.
33. Le Doare K, Gaylord MA, Anderson AS, Andrews N, Baker CJ, Bolcen S, Felek A, Giardina PC, Grube CD, Hall T, Hallis B, Izu A, **Madhi SA**, Maniatis P, Matheson M, Mawas F, McKeen A, Rhodes J, Alston B, Patel P, Schrag S, Simon R, Tan CY, Taylor S, Kwatra G, Gorringer A. Interlaboratory comparison of a multiplex immunoassay that measures human serum IgG antibodies against six-group B streptococcus polysaccharides. *Hum Vaccin Immunother*. 2024 Dec 31;20(1):2330138. doi: 10.1080/21645515.2024.2330138. Epub 2024 Apr 12. PMID: 38608170; PMCID: PMC11018077.
 34. Mahtab S, Madewell ZJ, **Madhi SA**, Wise A, Swart PJ, Velaphi S, Mandomando I, Bramugy J, Mabunda R, Xerinda E, Scott AG, Assefa N, Madrid L, Bweihun M, Temesgen F, Onyango D, Akelo V, Oliech R, Otieno P, Verani JR, Arifeen SE, Gurley ES, Alam M, Rahman A, Hossain MZ, Sow S, Kotloff K, Tapia M, Keita AM, Sanogo D, Ogbuanu I, Ojulong J, Lako S, Ita O, Kaluma E, Wilson T, Mutevedzi PC, Barr BAT, Whitney CG, Blau DM, Bassat Q; CHAMPS Consortium. Stillbirths and Neonatal Deaths Caused by Group B *Streptococcus* in Africa and South Asia Identified Through Child Health and Mortality Prevention Surveillance (CHAMPS). *Open Forum Infect Dis*. 2023 Jul
 35. Mohamed E, Kirstein F, Williams M, Dorasamy S, van Zyl P, Robertson MJ, Anderson T, Harden LM, Jardine K, Veeraraghavan B, Wilson S, Tippoo P, **Madhi SA**, Kwatra G. Immune responses against group B *Streptococcus* monovalent and pentavalent capsular polysaccharide tetanus toxoid conjugate vaccines in Balb/c mice. *iScience*. 2023 Jul 13;26(8):107380. doi: 10.1016/j.isci.2023.107380. PMID: 37575182; PMCID: PMC10415928
 36. **Madhi SA**, Anderson AS, Absalon J, Radley D, Simon R, Jongihlati B, Strehlau R, van Niekerk AM, Izu A, Naidoo N, Kwatra G, Ramsamy Y, Said M, Jones S, Jose L, Fairlie L, Barnabas SL, Newton R, Munson S, Jefferies Z, Pavliakova D, Silmon de Monerri NC, Gomme E, Perez JL, Scott DA, Gruber WC, Jansen KU. Potential for Maternally Administered Vaccine for Infant Group B *Streptococcus*. *N Engl J Med*. 2023 Jul 20;389(3):215-227. doi: 10.1056/NEJMoa2116045. PMID: 37467497.
 37. Dangor Z, Kwatra G, Pawlowski A, Fisher PB, Izu A, Lala SG, Johansson- Lindbom B, **Madhi SA**. Association of infant Rib and Alp1 surface protein N-terminal domain immunoglobulin G and invasive Group B *Streptococcal* disease in young infants. *Vaccine*. 2023 Mar 3;41(10):1679-1683. doi: 10.1016/j.vaccine.2023.01.071. Epub 2023 Feb 6. PMID: 36754766; PMCID:PMC9996286.
 38. Gilbert PB, Isbrucker R, Andrews N, Goldblatt D, Heath PT, Izu A, **Madhi SA**, Moulton L, Schrag SJ, Shang N, Siber G, Sobanjo-Ter Meulen A. Methodology for a correlate of protection for group B *Streptococcus*: Report from the Bill & Melinda Gates Foundation workshop held on 10 and 11 February 2021. *Vaccine*. 2022 Jul 30;40(32):4283-4291. doi: 10.1016/j.vaccine.2022.05.016. Epub 2022 Jun 29. PMID: 35779963.
 39. Gonçalves BP, Procter SR, Paul P, Chandna J, Lewin A, Seedat F, Koukounari A, Dangor Z, Leahy S, Santhanam S, John HB, Bramugy J, Bardají A, Abubakar A, Nasambu C, Libster R, Sánchez Yanotti C, Horváth-Puhó E, Sørensen HT, van de Beek D, Bijlsma MW, Gardner WM, Kassebaum N, Trotter C, Bassat Q, **Madhi SA**, Lambach P, Jit M, Lawn JE; GBS Danish and Dutch collaborative group for long term outcomes; GBS Low and Middle Income Countries collaborative group for long term outcomes; GBS Scientific Advisory Group, epidemiological sub-group; CHAMPS team. Group B streptococcus infection during pregnancy and infancy: estimates of regional and global burden. *Lancet Glob Health*. 2022 Jun;10(6):e807-e819. doi: 10.1016/S2214-109X(22)00093-6. Epub 2022 Apr 28. Erratum in: *Lancet Glob Health*. 2022 May 12;; PMID: 35490693; PMCID: PMC9090904.

40. Paul P, Chandna J, Procter SR, Dangor Z, Leahy S, Santhanam S, John HB, Bassat Q, Bramugy J, Bardají A, Abubakar A, Nasambu C, Libster R, Yanotti CS, Seedat F, Horváth-Puhó E, Hossain AKMT, Sadeq-Ur Rahman Q, Jit M, Newton CR, Milner K, Gonçalves BP, Lawn JE; GBS long term outcomes LMIC collaborative group. Neurodevelopmental and growth outcomes after invasive Group B Streptococcus in early infancy: A multi-country matched cohort study in South Africa, Mozambique, India, Kenya, and Argentina. *EclinicalMedicine*. 2022 Apr 28;47:101358. doi: 10.1016/j.eclinm.2022.101358. PMID: 35747160; PMCID: PMC9142788. **[Part of Group Authorship]**
41. Izu A, Kwatra G, **Madhi SA**, Rigat F. Estimation of invasive Group B Streptococcus disease risk in young infants from case-control serological studies. *BMC Med Res Methodol*. 2022 Mar 27;22(1):85. doi: 10.1186/s12874-022-01529-5. PMID: 35350991; PMCID: PMC8961496.
42. Francis JD, Guevara MA, Lu J, **Madhi SA**, Kwatra G, Aronoff DM, Manning SD, Gaddy JA. The antimicrobial activity of zinc against group B Streptococcus is strain-dependent across diverse sequence types, capsular serotypes, and invasive versus colonizing isolates. *BMC Microbiol*. 2022 Jan 13;22(1):23. doi: 10.1186/s12866-021-02428-3. PMID: 35026981; PMCID: PMC8756620.
43. Harden LM, Leahy S, Lala SG, Paul P, Chandna J, Lowick S, Mbatha S, Jaye T, Laughton B, Ghoor A, Sithole P, Msayi J, Kumalo N, Msibi TN, **Madhi SA**, Lawn JE, Dangor Z. South African Children: A Matched Cohort Study of Neurodevelopmental Impairment in Survivors of Invasive Group B Streptococcus Disease Aged 5 to 8 Years. *Clin Infect Dis*. 2022 Jan 20;74(Supplement_1):S5-S13. doi: 10.1093/cid/ciab814. PMID: 34725706; PMCID: PMC8776309.
44. Aerts C, Leahy S, Mucasse H, Lala S, Bramugy J, Tann CJ, **Madhi SA**, Bardají A, Bassat Q, Dangor Z, Lawn JE, Jit M, Procter SR. Quantifying the Acute Care Costs of Neonatal Bacterial Sepsis and Meningitis in Mozambique and South Africa. *Clin Infect Dis*. 2022 Jan 20;74(Supplement_1):S64-S69. doi: 10.1093/cid/ciab815. PMID: 34725702; PMCID: PMC8776306.
45. Chandna J, Liu WH, Dangor Z, Leahy S, Sridhar S, John HB, Mucasse H, Bassat Q, Bardaji A, Abubakar A, Nasambu C, Newton CR, Sánchez Yanotti C, Libster R, Milner K, Paul P, Lawn JE; GBS Low and Middle income Collaborative Group for Long-term Outcomes group. Emotional and Behavioral Outcomes in Childhood for Survivors of Invasive Group B Streptococcus Disease in Infancy: Findings From 5 Low- and Middle-Income Countries. *Clin Infect Dis*. 2022 Jan 20;74(Supp_1):S35-S43. doi: 10.1093/cid/ciab821. PMID: 34725686; PMCID: PMC8776308. **[Part of Group Authorship]**
46. Dangor Z, Kwatra G, Izu A, Khan M, Lala SG, **Madhi SA**. Infant serotype specific anti-capsular immunoglobulin G antibody and risk of invasive group B Streptococcal disease. *Vaccine*. 2021 Nov 16;39(47):6813-6816. doi: 10.1016/j.vaccine.2021.10.022. Epub 2021 Oct 20. PMID: 34688499.
47. Paul P, Procter SR, Dangor Z, Bassat Q, Abubakar A, Santhanam S, Libster R, Gonçalves BP, **Madhi SA**, Bardají A, Mwangome E, Mabrouk A, John HB, Sánchez Yanotti C, Chandna J, Sithole P, Mucasse H, Katana PV, Koukounari A, Harden LM, Aerts C, Ghoor A, Leahy S, Mbatha S, Lowick S, Lala SG, Bramugy J, Newton C, Hossain AKMT, Sadeq-Ur Rahman Q, Lambach P, Jit M, Lawn JE. Quantifying long-term health and economic outcomes for survivors of group B Streptococcus invasive disease in infancy: protocol of a multi-country study in Argentina, India, Kenya, Mozambique and South Africa. *Gates Open Res*. 2021 Jul 19;4:138. doi: 10.12688/gatesopenres.13185.2. PMID: 34368637; PMCID: PMC8313848.
48. Lukhele ST, Kwatra G, Ismail A, Allam M, Dangor Z, **Madhi SA**. Investigation of Possible Nosocomial-Associated Invasive Group B Streptococcus Disease Using Whole-Genome

- Sequencing: A Report of 3 Cases. *J Pediatric Infect Dis Soc.* 2021 Sep 23;10(8):880-882. doi: 10.1093/jpids/piab042. PMID: 34129035.
49. **Madhi SA**, Izu A, Kwatra G, Jones S, Dangor Z, Wadula J, Moultrie A, Adam Y, Pu W, Henry O, Briner C, Cutland CL. Association of Group B Streptococcus (GBS) Serum Serotype-Specific Anticapsular Immunoglobulin G Concentration and Risk Reduction for Invasive GBS Disease in South African Infants: An Observational Birth-Cohort, Matched Case-Control Study. *Clin Infect Dis.* 2021 Sep 7;73(5):e1170-e1180. doi: 10.1093/cid/ciaa1873. PMID: 33341870.
 50. Bianchi-Jassir F, Paul P, To KN, Carreras-Abad C, Seale AC, Jauneikaite E, **Madhi SA**, Russell NJ, Hall J, Madrid L, Bassat Q, Kwatra G, Le Doare K, Lawn JE. Systematic review of Group B Streptococcal capsular types, sequence types and surface proteins as potential vaccine candidates. *Vaccine.* 2020 Oct 7;38(43):6682-6694. doi: 10.1016/j.vaccine.2020.08.052. Epub 2020 Sep 2. PMID: 32888741; PMCID: PMC7526974.
 51. Said M, Dangor Y, Mbelle N, **Madhi SA**, Kwatra G, Ismail F. Antimicrobial susceptibility and serotype distribution of Streptococcus agalactiae rectovaginal colonising isolates from pregnant women at a tertiary hospital in Pretoria, South Africa: An observational descriptive study. *S Afr Med J.* 2020 Aug 31;110(9):869-871. doi: 10.7196/SAMJ.2020.v110i9.14524. PMID: 32880270
 52. Nakwa FL, Lala SG, **Madhi SA**, Dangor Z. Neurodevelopmental Impairment at 1 Year of Age in Infants With Previous Invasive Group B Streptococcal Sepsis and Meningitis. *Pediatr Infect Dis J.* 2020 Sep;39(9):794-798. doi: 10.1097/INF.0000000000002695. PMID: 32804460.

Severe acute respiratory syndrome coronavirus-2/ Coronavirus disease-2019 (COVID19)

53. Mbotwe-Sibanda S, Kwatra G, **Madhi SA**, Nunes MC. Post-acute sequelae of SARS-CoV-2 infection in health care workers from South Africa. *Oxf Open Immunol.* 2024 Mar 9;5(1):iqae001. doi: 10.1093/oxfimm/iqae001. PMID: 38737940; PMCID: PMC10939461.
54. Reiter L, Greffrath J, Zidel B, Ostrowski M, Gommerman J, **Madhi SA**, Tran R, Martin-Orozco N, Panicker RKG, Cooper C, Pastrak A. Comparable safety and non-inferior immunogenicity of the SARS-CoV-2 mRNA vaccine candidate PTX-COVID19-B and BNT162b2 in a phase 2 randomized, observer-blinded study. *Sci Rep.* 2024 Mar 4;14(1):5365. doi: 10.1038/s41598-024-55320-1. PMID: 38438427; PMCID: PMC10912344.
55. Tomasicchio M, Jaumdally S, Wilson L, Kotze A, Semple L, Meier S, Pooran A, Esmail A, Pillay K, Roberts R, Kriel R, Meldau R, Oelofse S, Mandviwala C, Burns J, Londt R, Davids M, van der Merwe C, Roomaney A, Kühn L, Perumal T, Scott AJ, Hale MJ, Baillie VL, Mahtab S, Williamson C, Joseph R, Sigal A, Joubert I, Piercy J, Thomson D, Fredericks DL, Miller MGA, Nunes MC, **Madhi SA**, Dheda K. SARS-CoV-2 Viral Replication Persists in the Human Lung for Several Weeks after Symptom Onset. *Am J Respir Crit Care Med.* 2024 Apr 1;209(7):840-851. doi: 10.1164/rccm.202308-1438OC. PMID: 38226855; PMCID: PMC10995573
56. Olwagan CP, Downs SL, Izu A, Tharasimbi L, Van Der Merwe L, Nunes MC, **Madhi SA**. Bacterial nasopharyngeal colonisation in children in South Africa before and during the COVID-19 pandemic: an observational study. *Lancet Microbe.* 2024 Jan;5(1):e34-e42. doi: 10.1016/S2666-5247(23)00260-4. Epub 2023 Dec 1. PMID: 38048806; PMCID: PMC10789613.
57. Wilson L, Chang JW, Meier S, Ganief T, Ganief N, Oelofse S, Baillie VL, Nunes MC, **Madhi SA**, Blackburn J, Dheda K. Proteomic Profiling of Urine From Hospitalized Patients With Severe Pneumonia due to SARS-CoV-2 vs Other Causes: A Preliminary Report. *Open Forum Infect*

- Dis. 2023 Aug 31;10(10):ofad451. doi: 10.1093/ofid/ofad451. PMID: 37799131; PMCID: PMC10549212.
58. Motsoeneng BM, Manamela NP, Kaldine H, Kgagudi P, Hermanus T, Ayres F, Makhado Z, Moyo-Gwete T, van der Mescht MA, Abdullah F, Boswell MT, Ueckermann V, Rossouw TM, **Madhi SA**, Moore PL, Richardson SI. Despite delayed kinetics, people living with HIV achieve equivalent antibody function after SARS-CoV-2 infection or vaccination. *Front Immunol.* 2023 Aug 3;14:1231276. doi: 10.3389/fimmu.2023.1231276. PMID: 37600825; PMCID: PMC10435738.
 59. Pather S, **Madhi SA**, Cowling BJ, Moss P, Kamil JP, Ciesek S, Muik A, Türeci Ö. Corrigendum: SARS-CoV-2 Omicron variants: burden of disease, impact on vaccine effectiveness and need for variant-adapted vaccines. *Front Immunol.* 2023 Jun 12;14:1232965. doi: 10.3389/fimmu.2023.1232965. Erratum for: *Front Immunol.* 2023 May 23;14:1130539. doi: 10.3389/fimmu.2023.1130539. PMID: 37377964; PMCID: PMC10292686.
 60. **Madhi SA**, Feikin DR. Are bivalent vaccines better than ancestral-virus monovalent vaccines in protecting against severe omicron COVID-19? *Lancet Infect Dis.* 2023 Jul 18:S1473-3099(23)00425-5. doi: 10.1016/S1473-3099(23)00425-5. Epub ahead of print. PMID: 37478878. (Invited commentary)
 61. Kaplonek P, Cizmeci D, Kwatra G, Izu A, Lee JS, Bertera HL, Fischinger S, Mann C, Amanat F, Wang W, Koen AL, Fairlie L, Cutland CL, Ahmed K, Dheda K, Barnabas SL, Bhorat QE, Briner C, Krammer F, Sapphire EO, Gilbert SC, Lambe T, Pollard AJ, Nunes M, Wuhrer M, Lauffenburger DA, **Madhi SA**, Alter G. ChAdOx1 nCoV-19 (AZD1222) vaccine-induced Fc receptor binding tracks with differential susceptibility to COVID-19. *Nat Immunol.* 2023 Jul;24(7):1161-1172. doi: 10.1038/s41590-023-01513-1. Epub 2023 Jun 15. PMID: 37322179; PMCID: PMC10307634
 62. Kana BD, Arbutnot P, Botwe BK, Choonara YE, Hassan F, Louzir H, Matsoso P, Moore PL, Muhairwe A, Naidoo K, Ndomondo-Sigonda M, **Madhi SA**. Opportunities and challenges of leveraging COVID-19 vaccine innovation and technologies for developing sustainable vaccine manufacturing capabilities in Africa. *Lancet Infect Dis.* 2023 Jun 5:S1473-3099(22)00878-7. doi: 10.1016/S1473-3099(22)00878-7. Epub ahead of print. PMID: 37290473. (Invited article)
 63. **Madhi SA**, Izu A. Safety of COVID-19 booster dose: is the juice worth the squeeze? *Lancet Infect Dis.* 2023 Jun 20:S1473-3099(23)00296-7. doi: 10.1016/S1473-3099(23)00296-7. Epub ahead of print. PMID: 37352876; PMCID: PMC10281642. (Invited commentary)
 64. Pather S, **Madhi SA**, Cowling BJ, Moss P, Kamil JP, Ciesek S, Muik A, Türeci Ö. SARS-CoV-2 Omicron variants: burden of disease, impact on vaccine effectiveness and need for variant-adapted vaccines. *Front Immunol.* 2023 May 23;14:1130539. doi: 10.3389/fimmu.2023.1130539. Erratum in: *Front Immunol.* 2023 Jun 12;14:1232965. PMID: 37287979; PMCID: PMC10242031
 65. Underwood E, Dunkle LM, **Madhi SA**, Gay CL, Heath PT, Kotloff KL, Smith K, Chau G, Galbiati S, McGarry A, Woo W, Cho I, Alves K, Áñez G, Bennett C, Shinde V, Fries L, Mallory RM, Glenn GM, Toback S. Safety, efficacy, and immunogenicity of the NVX-CoV2373 vaccine. *Expert Rev Vaccines.* 2023 Jan-Dec;22(1):501-517. doi: 10.1080/14760584.2023.2218913. PMID: 37246757. (review)
 66. Muthoni J, Otwombe K, Thaele D, Choge I, Steenberg B, Cutland CL, **Madhi SA**, Sokani A, Myburgh N. COVID-19 Vaccination Hesitancy among Youths in Soweto, South Africa. *Vaccines (Basel).* 2023 May 9;11(5):960. doi: 10.3390/vaccines11050960. PMID: 37243064; PMCID: PMC10223070.

67. Koen AL, Izu A, Baillie VL, Kwatra G, Cutland CL, Fairlie L, Padayachee SD, Dheda K, Barnabas SL, Bhorat QE, Briner C, Ahmed K, Bhikha S, Bhiman JN, du Plessis J, Esmail A, Horne E, Hwa SH, Oommen-Jose A, Lambe T, Laubscher M, Malahleha M, Benade G, Mckenzie S, Oelofse S, Patel F, Pillay S, Rhead S, Rodel H, Taoushanis C, Tegally H, Thombrayil A, Villafana TL, Gilbert S, Pollard AJ, **Madhi SA**. Efficacy of primary series AZD1222 (ChAdOx1 nCoV-19) vaccination against SARS-CoV-2 variants of concern: Final analysis of a randomized, placebo-controlled, phase 1b/2 study in South African adults (COV005). *Vaccine*. 2023 May 26;41(23):3486-3492. doi: 10.1016/j.vaccine.2023.04.058. Epub 2023 Apr 27. PMID: 37149443; PMCID: PMC10133888.
68. Myburgh N, Mulaudzi M, Tshabalala G, Beta N, Gutu K, Vermaak S, Lau C, Hill C, Stanberry L, James W, **Madhi SA**, Makadzange T, Dietrich JJ. A Qualitative Study Exploring Motivators and Barriers to COVID-19 Vaccine Uptake among Adults in South Africa and Zimbabwe. *Vaccines (Basel)*. 2023 Mar 25;11(4):729. doi: 10.3390/vaccines11040729. PMID: 37112641; PMCID: PMC10145404.
69. **Madhi SA**, Kwatra G, Myers JE, Jassat W, Dhar N, Mukendi CK, Blumberg L, Welch R, Izu A, Mutevedzi PC. Sustained Low Incidence of Severe and Fatal COVID-19 Following Widespread Infection Induced Immunity after the Omicron (BA.1) Dominant in Gauteng, South Africa: An Observational Study. *Viruses*. 2023 Feb 21;15(3):597. doi: 10.3390/v15030597. PMID: 36992306; PMCID: PMC10054630.
70. Smith M, Kwatra G, Izu A, Nel A, Cutland CL, Ahmed K, Baillie VL, Barnabas S, Bhorat Q, Briner C, Lazarus E, Dheda K, Fairlie L, Koen A, **Madhi SA**, Blackburn JM. Longitudinal IgA and IgG Response, and ACE2 Binding Blockade, to Full-Length SARS-CoV-2 Spike Protein Variants in a Population of Black PLWH Vaccinated with ChAdOx1 nCoV-19. *Viruses*. 2023 Feb 6;15(2):448. doi: 10.3390/v15020448. PMID: 36851662; PMCID: PMC9965153.
71. Steenberg B, Sokani A, Myburgh N, Mutevedzi PC, **Madhi SA**. COVID-19 Vaccination Rollout: Aspects of Hesitancy in South Africa. *Vaccines (Basel)*. 2023 Feb 10;11(2):407. doi: 10.3390/vaccines11020407. PMID: 36851284; PMCID: PMC9966603.
72. Bhiman JN, Richardson SI, Lambson BE, Kgagudi P, Mzindle N, Kaldine H, Crowther C, Gray G, Bekker LG; Novavax trial clinical lead author group; Shinde V, Bennett C, Glenn GM, **Madhi SA**, Moore PL. Novavax NVX-COV2373 triggers neutralization of Omicron sub-lineages. *Sci Rep*. 2023 Jan 21;13(1):1222. doi: 10.1038/s41598-023-27698-x. PMID: 36681693; PMCID: PMC9867547.
73. Smith ER, Oakley E, Grandner GW, Ferguson K, Farooq F, Afshar Y, Ahlberg M, Ahmadzia H, Akelo V, Aldrovandi G, Tippet Barr BA, Bevilacqua E, Brandt JS, Broutet N, Fernández Buhigas I, Carrillo J, Clifton R, Conry J, Cosmi E, Crispi F, Crovetto F, Delgado-López C, Divakar H, Driscoll AJ, Favre G, Flaherman VJ, Gale C, Gil MM, Gottlieb SL, Gratacós E, Hernandez O, Jones S, Kalafat E, Khagayi S, Knight M, Kotloff K, Lanzone A, Le Doare K, Lees C, Litman E, Lokken EM, Laurita Longo V, **Madhi SA**, Magee LA, Martinez-Portilla RJ, McClure EM, Metz TD, Miller ES, Money D, Mounghmaithong S, Mullins E, Nachegea JB, Nunes MC, Onyango D, Panchaud A, Poon LC, Raiten D, Regan L, Rukundo G, Sahota D, Sakowicz A, Sanin-Blair J, Söderling J, Stephansson O, Temmerman M, Thorson A, Tolosa JE, Townson J, Valencia-Prado M, Visentin S, von Dadelszen P, Adams Waldorf K, Whitehead C, Yassa M, Tielsch JM; Perinatal COVID PMA Study Collaborators; Perinatal COVID PMA Study Collaborators. Adverse maternal, fetal, and newborn outcomes among pregnant women with SARS-CoV-2 infection: an individual participant data meta-analysis. *BMJ Glob Health*. 2023 Jan;8(1):e009495. doi: 10.1136/bmjgh-2022-009495. PMID: 36646475; PMCID: PMC9895919.

74. **Madhi SA**, Kwatra G, Myers JE, Jassat W, Dhar N, Mukendi CK, Blumberg L, Welch R, Izu A, Mutevedzi PC. Sustained Low Incidence of Severe and Fatal COVID-19 Following Widespread Infection Induced Immunity after the Omicron (BA.1) Dominant in Gauteng, South Africa: An Observational Study. *Viruses*. 2023 Feb 21;15(3):597. doi: 10.3390/v15030597. PMID: 36992306; PMCID: PMC10054630.
75. McMahon WC, Kwatra G, Izu A, Koen AL, Greffrath J, Fairlie L, Patel F, Mukendi CK, Mbele NJ, Lala R, Burgers WA, Nunes MC, Cutland CL, Gilbert SC, Lambe T, Pollard AJ, **Madhi SA**. T-cell responses induced by ChAdOx1 nCoV-19 (AZD1222) vaccine to wild-type severe acute respiratory syndrome coronavirus 2 among people with and without in South Africa. *AIDS*. 2023 Jan 1;37(1):105-112. doi: 10.1097/QAD.0000000000003414. Epub 2022 Oct 21. PMID: 36476455.
76. Sokhela S, Bosch B, Hill A, Simmons B, Woods J, Johnstone H, **Madhi SA**, Qavi A, Ellis L, Akpomiemie G, Bhaskar E, Levi J, Falconer J, Mirchandani M, Perez Casas C, Moller K, Pilkington V, Pepperrell T, Venter WDF. Comparing Prospective Incident Severe Acute Respiratory Syndrome Coronavirus 2 Infection Rates During Successive Waves of Delta and Omicron in Johannesburg, South Africa. *Open Forum Infect Dis*. 2022 Dec 16;9(12):ofac587. doi: 10.1093/ofid/ofac587. PMID: 36540387; PMCID: PMC9757672.
77. Nunes MC, Jones S, Strehlau R, Baba V, Ditse Z, da Silva K, Bothma L, Serafin N, Baillie VL, Kwatra G, Burke M, Wise A, Adam M, Mlandu P, Melamu M, Phelp J, Fraser W, Wright C, Zell E, Adam Y, **Madhi SA**. Antepartum SARS-CoV-2 infection and adverse birth outcomes in South African women. *J Glob Health*. 2022 Dec 3;12:05050. doi: 10.7189/jogh.12.05050. PMID: 36462199; PMCID: PMC9718447.
78. Nunes MC, Jones S, Strehlau R, Baba V, Ditse Z, da Silva K, Bothma L, Serafin N, Baillie VL, Kwatra G, Burke M, Wise A, Adam M, Mlandu P, Melamu M, Phelp J, Fraser W, Wright C, Zell E, Adam Y, **Madhi SA**. Active Intrapartum SARS-CoV-2 Infection and Pregnancy Outcomes. *Am J Perinatol*. 2022 Oct 28. doi:10.1055/s-0042-1757274. Epub ahead of print. PMID: 36307090.
79. **Madhi SA**, Kwatra G, Richardson SI, Koen AL, Baillie VL, Cutland CL, Fairlie L, Padayachee SD, Dheda K, Barnabas SL, Bhorat QE, Briner C, Ahmed K, Aley PK, Bhikha S, Bhorat AE, Esmail A, Horne E, Kaldine H, Mukendi CK, Madzorera VS, Manamela NP, Masilela M, Hermanus ST, Motlou T, Mzindle N, Oelofse S, Patel F, Rhead S, Rossouw L, Taoushanis C, van Eck S, Lambe T, Gilbert SC, Pollard AJ, Moore PL, Izu A. Durability of ChAdOx1 nCoV-19 (AZD1222) vaccine and hybrid humoral immunity against variants including omicron BA.1 and BA.4 6 months after vaccination (COV005): a post-hoc analysis of a randomised, phase 1b-2a trial. *Lancet Infect Dis*. 2022 Oct 20:S1473-3099(22)00596-5. doi: 10.1016/S1473-3099(22)00596-5. Epub ahead of print. PMID: 36273491; PMCID: PMC9584570.
80. May AK, Seymour H, Etheredge H, Maher H, Nunes MC, **Madhi SA**, Sokhela SM, Venter WDF, Martinson N, Nabeemeeah F, Cohen C, Moyes J, Walaza S, Tempia S, Kleynhans J, von Gottberg A, Nel J, Dawood H, Variava E, Tollman S, Kahn K, Herbst K, Wong EB, Tiemessen CT, van Blydenstein A, Murray L, Venter M, Fabian J, Ramsay M. Coronavirus Host Genomics Study: South Africa (COVIGen-SA). *Glob Health Epidemiol Genom*. 2022 Oct 6;2022:7405349. doi: 10.1155/2022/7405349. PMID: 36263375; PMCID: PMC9560830.
81. Steenberg B, Myburgh N, Sokani A, Ngwenya N, Mutevedzi PC, **Madhi SA**. COVID-19 Vaccination Rollout: Aspects of Acceptability in South Africa. *Vaccines (Basel)*. 2022 Aug 24;10(9):1379. doi: 10.3390/vaccines10091379. PMID: 36146456; PMCID: PMC9500856.
82. Smith ER, Oakley E, Grandner GW, Rukundo G, Farooq F, Ferguson K, Baumann S, Waldorf KA, Afshar Y, Ahlberg M, Ahmadzia H, Akelo V, Aldrovandi G, Bevilacqua E, Bracero N, Brandt JS, Broutet N, Carrillo J, Conry J, Cosmi E, Crispi F, Croveto F, Gil MDM, Delgado-López C,

- Divakar H, Driscoll AJ, Favre G, Buhigas IF, Flaherman V, Gale C, Godwin CL, Gottlieb S, Gratacós E, He S, Hernandez O, Jones S, Joshi S, Kalafat E, Khagayi S, Knight M, Kotloff K, Lanzone A, Longo VL, Le Doare K, Lees C, Litman E, Lokken EM, **Madhi SA**, Magee LA, Martinez-Portilla RJ, Metz TD, Miller ES, Money D, Mounghmaithong S, Mullins E, Nachega JB, Nunes MC, Onyango D, Panchaud A, Poon LC, Raiten D, Regan L, Sahota D, Sakowicz A, Sanin-Blair J, Stephansson O, Temmerman M, Thorson A, Thwin SS, Tippet Barr BA, Tolosa JE, Tug N, Valencia-Prado M, Visentin S, von Dadelszen P, Whitehead C, Wood M, Yang H, Zavala R, Tielsch JM. Clinical risk factors of adverse outcomes among women with COVID-19 in the pregnancy and postpartum period: A sequential, prospective meta-analysis. *Am J Obstet Gynecol.* 2022 Aug 23:S0002-9378(22)00680-9. doi: 10.1016/j.ajog.2022.08.038. Epub ahead of print. PMID: 36027953; PMCID: PMC9398561.
83. Nakwa FL, Thomas R, van Kwawegen A, Ntuli N, Seake K, Kesting SJ, Kamanga NHB, Kgwadi DM, Chami N, Mogajane T, Ondongo-Ezhet C, Maphosa TN, Jones S, Baillie VL, **Madhi SA**, Velaphi S. An outbreak of infection due to severe acute respiratory corona virus-2 in a neonatal unit from a low and middle income setting. *Front Pediatr.* 2022 Jul 28;10:933982. doi: 10.3389/fped.2022.933982. PMID: 35967580; PMCID: PMC9366465.
84. Nunes MC, Jones S, Ditse Z, da Silva K, Serafin N, Strehlau R, Wise A, Burke M, Baba V, Baillie VL, Nzimande A, Jafta N, Adam M, Mlandu P, Melamu M, Phelp J, Feldman C, Adam Y, **Madhi SA**, Kwatra G. Maternal-foetal transfer of severe acute respiratory syndrome coronavirus 2 antibodies among women with and those without HIV infection. *AIDS.* 2022 Nov 1;36(13):1777-1782. doi: 10.1097/QAD.0000000000003345. Epub 2022 Aug 10. PMID: 35950935.
85. Nunes MC, Johnson MJ, Kwatra G, Weinberg A, **Madhi SA**. T-cell responses to SARS-CoV-2 in unexposed South African women. *Gates Open Res.* 2021 Oct 6;5:150. doi: 10.12688/gatesopenres.13373.1. PMID: 35903460; PMCID: PMC9279637.
86. Nunes MC, **Madhi SA**. COVID-19 vaccines in pregnancy. *Trends Mol Med.* 2022 May 3:S1471-4914(22)00108-3. doi: 10.1016/j.molmed.2022.04.012. Epub ahead of print. PMID: 35610123; PMCID: PMC9061132. (Review)
87. **Madhi SA**, Moodley D, Hanley S, Archary M, Hoosain Z, Lalloo U, Louw C, Fairlie L, Fouche LF, Masilela MSL, Singh N, Grobbelaar C, Ahmed K, Benadé G, Bhikha S, Bhorat AE, Bhorat Q, Joseph N, Dheda K, Esmail A, Foulkes S, Goga A, Oommen Jose A, Kruger G, Kalonji DJ, Lalloo N, Lombaard JJ, Lombard Koen A, Kany Luabeya A, Mngqibisa R, Petrick FG, Pitsi A, Tameris M, Thombrayil A, Vollgraaff PL, Cloney-Clark S, Zhu M, Bennett C, Albert G, Faust E, Plested JS, Fries L, Robertson A, Neal S, Cho I, Glenn GM, Shinde V; 2019nCoV-501 Study Group. Immunogenicity and safety of a SARS-CoV-2 recombinant spike protein nanoparticle vaccine in people living with and without HIV-1 infection: a randomised, controlled, phase 2A/2B trial. *Lancet HIV.* 2022 May;9(5):e309-e322. doi: 10.1016/S2352-3018(22)00041-8. PMID: 35489376; PMCID: PMC9045746.
88. Scheepers C, Everatt J, Amoako DG, Tegally H, Wibmer CK, Mnguni A, Ismail A, Mahlangu B, Lambson BE, Martin DP, Wilkinson E, San JE, Giandhari J, Manamela N, Ntuli N, Kgagudi P, Cele S, Richardson SI, Pillay S, Mohale T, Ramphal U, Naidoo Y, Khumalo ZT, Kwatra G, Gray G, Bekker LG, **Madhi SA**, Baillie VL, Van Voorhis WC, Treurnicht FK, Venter M, Mlisana K, Wolter N, Sigal A, Williamson C, Hsiao NY, Msomi N, Maponga T, Preiser W, Makatini Z, Lessells R, Moore PL, de Oliveira T, von Gottberg A, Bhiman JN. Emergence and phenotypic characterization of the global SARS-CoV-2 C.1.2 lineage. *Nat Commun.* 2022 Apr 8;13(1):1976. doi: 10.1038/s41467-022-29579-9. PMID: 35396511; PMCID: PMC8993834.
89. Chibwana MG, Moyo-Gwete T, Kwatra G, Mandolo J, Hermanaus T, Motlou T, Mzindle N, Ayres F, Chaponda M, Tembo G, Mwenechanya P, Mitole N, Jassi C, Kamng'ona R, Afran L, Mzinza

- D, Mwandumba HC, Gordon SB, Jere K, **Madhi SA**, Moore PL, Heyderman RS, Jambo KC. AstraZeneca COVID-19 vaccine induces robust broadly cross-reactive antibody responses in Malawian adults previously infected with SARS-CoV-2. *BMC Med.* 2022 Mar 28;20(1):128. doi: 10.1186/s12916-022-02342-z. PMID: 35346184; PMCID: PMC8958481.
90. Nunes MC, Mbotwe-Sibanda S, Baillie VL, Kwatra G, Aguas R, **Madhi SA**, On Behalf of The Wits Vida HCW Study Group. SARS-CoV-2 Omicron Symptomatic Infections in Previously Infected or Vaccinated South African Healthcare Workers. *Vaccines (Basel).* 2022 Mar 17;10(3):459. doi: 10.3390/vaccines10030459. PMID: 35335091; PMCID: PMC8951475.
91. **Madhi SA**, Kwatra G, Myers JE, Jassat W, Dhar N, Mukendi CK, Nana AJ, Blumberg L, Welch R, Ngorima-Mabhena N, Mutevedzi PC. Population Immunity and Covid-19 Severity with Omicron Variant in South Africa. *N Engl J Med.* 2022 Feb 23. doi: 10.1056/NEJMoa2119658. Epub ahead of print. PMID: 35196424.
92. **Madhi SA**, Ihekweazu C, Rees H, Pollard AJ. Decoupling of omicron variant infections and severe COVID-19. *Lancet.* 2022 Feb 18:S0140-6736(22)00109-X. doi: 10.1016/S0140-6736(22)00109-X. Epub ahead of print. PMID: 35189080; PMCID: PMC8856666. (Letter)
93. Dejnirattisai W, Huo J, Zhou D, Zahradník J, Supasa P, Liu C, Duyvesteyn HME, Ginn HM, Mentzer AJ, Tuekprakhon A, Nutalai R, Wang B, Dijokaite A, Khan S, Avinoam O, Bahar M, Skelly D, Adele S, Johnson SA, Amini A, Ritter TG, Mason C, Dold C, Pan D, Assadi S, Bellasi A, Omo-Dare N, Koeckerling D, Flaxman A, Jenkin D, Aley PK, Voysey M, Costa Clemens SA, Naveca FG, Nascimento V, Nascimento F, Fernandes da Costa C, Resende PC, Pauvolid-Correa A, Siqueira MM, Baillie VL, Serafin N, Kwatra G, Da Silva K, **Madhi SA**, Nunes MC, Malik T, Openshaw PJM, Baillie JK, Semple MG, Townsend AR, Huang KA, Tan TK, Carroll MW, Klenerman P, Barnes E, Dunachie SJ, Constantinides B, Webster H, Crook D, Pollard AJ, Lambe T; OPTIC Consortium; ISARIC4C Consortium, Paterson NG, Williams MA, Hall DR, Fry EE, Mongkolsapaya J, Ren J, Schreiber G, Stuart DI, Sreaton GR. SARS-CoV-2 Omicron-B.1.1.529 leads to widespread escape from neutralizing antibody responses. *Cell.* 2022 Feb 3;185(3):467-484.e15. doi: 10.1016/j.cell.2021.12.046. Epub 2022 Jan 4. PMID: 35081335; PMCID: PMC8723827.
94. Nunes MC, Hale MJ, Mahtab S, Mabena FC, Dlodlu N, Baillie VL, Thwala BN, Els T, du Plessis J, Laubscher M, Mckenzie S, Mtshali S, Menezes C, Serafin N, van Blydenstein S, Tsitsi M, Dulisse B, **Madhi SA**. Clinical characteristics and histopathology of COVID-19 related deaths in South African adults. *PLoS One.* 2022 Jan 20;17(1):e0262179. doi: 10.1371/journal.pone.0262179. PMID: 35051205; PMCID: PMC8775212.
95. Abu-Raya B, **Madhi SA**, Omer SB, Amirthalingam G, Giles ML, Flanagan KL, Zimmermann P, O'Ryan M, Safadi MA, Papaevangelou V, Maertens K, Wanlapakorn N, Diaz-Brito V, Tommelein E, Esposito S. Global Perspectives on Immunization Against SARS-CoV-2 During Pregnancy and Priorities for Future Research: An International Consensus Paper From the World Association of Infectious Diseases and Immunological Disorders. *Front Immunol.* 2021 Dec 23;12:808064. doi: 10.3389/fimmu.2021.808064. PMID: 35003137; PMCID: PMC8733958. (Meeting report)
96. **Madhi SA**. COVID-19 herd immunity v. learning to live with the virus. *S Afr Med J.* 2021 Aug 5;111(9):852-856. doi: 10.7196/SAMJ.2021.v111i9.16005. PMID: 34949249. (Commentary)
97. Omar MAK, Jassat W, Brey Z, Parker S, Wadee M, Wadee S, **Madhi SA**. A call to action: Temporal trends of COVID-19 deaths in the South African Muslim community. *S Afr Med J.* 2021 Jul 14;111(9):13348. doi: 10.7196/SAMJ.2021.v111i9.15929. PMID: 34949242.
98. McIntyre PB, Aggarwal R, Jani I, Jawad J, Kochhar S, MacDonald N, **Madhi SA**, Mohsni E, Mulholland K, Neuzil KM, Nohynek H, Olayinka F, Pitisuttithum P, Pollard AJ, Cravioto A. COVID-19 vaccine strategies must focus on severe disease and global equity. *Lancet.* 2022

- Jan 22;399(10322):406-410. doi: 10.1016/S0140-6736(21)02835-X. Epub 2021 Dec 16. PMID: 34922639; PMCID: PMC8676417. (Commentary)
99. Mendelson M, Venter F, Moshabela M, Gray G, Blumberg L, de Oliveira T, **Madhi SA**. The political theatre of the UK's travel ban on South Africa. *Lancet*. 2021 Dec 18;398(10318):2211-2213. doi: 10.1016/S0140-6736(21)02752-5. Epub 2021 Dec 3. PMID: 34871546; PMCID: PMC8641956. (Letter)
 100. Kwatra G, Nunes MC, Dhar N, Baillie VL, Serafin N, Jones S, **Madhi SA**. Correlation of dried blood spots and plasma for quantification of Immunoglobulin (IgG) against Receptor binding domain and full length spike protein of SARS-CoV-2. *J Virol Methods*. 2022 Feb;300:114394. doi: 10.1016/j.jviromet.2021.114394. Epub 2021 Nov 30. PMID: 34861318; PMCID: PMC8631068.
 101. Venter WDF, **Madhi SA**, Nel J, Mendelson M, Van den Heever A, Moshabela M. South Africa should be using all the COVID-19 vaccines available to it - urgently. *S Afr Med J*. 2021 Mar 25;111(5):390-392. doi: 10.7196/SAMJ.2021.v111i5.15716. PMID: 34852876. (Letter)
 102. Kufa T, Jassat W, Cohen C, Tempia S, Masha M, Wolter N, Walaza S, von Gottburg A, Govender NP, Hunt G, Shonhiwa AM, Ebonwu J, Ntshoe G, Maruma W, Bapela P, Ndhlovu N, Mathema H, Modise M, Shuping L, Manana PN, Moore D, Dangor Z, Verwey C, **Madhi SA**, Saloojee H, Zar HJ, Blumberg L. Epidemiology of SARS- CoV-2 infection and SARS-CoV-2 positive hospital admissions among children in South Africa. *Influenza Other Respir Viruses*. 2022 Jan;16(1):34-47. doi: 10.1111/irv.12916. Epub 2021 Nov 18. PMID: 34796674.
 103. Mutevedzi PC, Kawonga M, Kwatra G, Moultrie A, Baillie VL, Mabena N, Mathibe MN, Rafuma MM, Maposa I, Abbott G, Hugo J, Ikalafeng B, Adelekan T, Lukhele M, **Madhi SA**. Estimated SARS-CoV-2 infection rate and fatality risk in Gauteng Province, South Africa: a population-based seroepidemiological survey. *Int J Epidemiol*. 2021 Oct 30:dyab217. doi: 10.1093/ije/dyab217. Epub ahead of print. PMID: 34718591; PMCID: PMC8689871.
 104. Hillson K, Clemens SC, **Madhi SA**, Voysey M, Pollard AJ, Minassian AM; Oxford COVID Vaccine Trial Group. Fertility rates and birth outcomes after ChAdOx1 nCoV-19 (AZD1222) vaccination. *Lancet*. 2021 Nov 6;398(10312):1683-1684. doi: 10.1016/S0140-6736(21)02282-0. Epub 2021 Oct 21. PMID: 34688353; PMCID: PMC8530465.
 105. **Madhi SA**, Koen AL, Izu A, Fairlie L, Cutland CL, Baillie VL, Padayachee SD, Dheda K, Barnabas SL, Bhorat QE, Briner C, Aley PK, Bhikha S, Hermanus T, Horne E, Jose A, Kgagudi P, Lambe T, Masenya M, Masilela M, Mkhize N, Moultrie A, Mukendi CK, Moyo-Gwete T, Nana AJ, Nzimande A, Patel F, Rhead S, Taoushanis C, Thombrayil A, van Eck S, Voysey M, Villafana TL, Vekemans J, Gilbert SC, Pollard AJ, Moore PL, Kwatra G; Wits VIDA COVID team. Safety and immunogenicity of the ChAdOx1 nCoV-19 (AZD1222) vaccine against SARS-CoV-2 in people living with and without HIV in South Africa: an interim analysis of a randomised, double-blind, placebo-controlled, phase 1B/2A trial. *Lancet HIV*. 2021 Sep;8(9):e568-e580. doi: 10.1016/S2352-3018(21)00157-0. Epub 2021 Aug 17. PMID: 34416193; PMCID: PMC8372504.
 106. Mabena FC, Baillie VL, Hale MJ, Thwala BN, Mthembu N, Els T, Serafin N, du Plessis J, Swart P, Velaphi SC, Petersen KL, Wadula J, Govender NP, Verwey C, Moore DP, Moosa FY, Nakwa FL, Maroane BV, Okudo G, Mabaso TM, Dangor Z, Nunes MC, **Madhi SA**. Clinical Characteristics and Histopathology of Coronavirus Disease 2019-Related Deaths in African Children. *Pediatr Infect Dis J*. 2021 Sep 1;40(9):e323-e332. doi: 10.1097/INF.0000000000003227. PMID: 34397776.
 107. Venter WDF, **Madhi SA**, Nel J, Mendelson M, Van den Heever A, Moshabela M. COVID-19 vaccines - less obfuscation, more transparency and action. *S Afr Med J*. 2021 Apr 9;111(6):515-516. PMID: 34382555. (Letter)

108. **Madhi SA**, Nel J. Epidemiology of severe COVID-19 from South Africa. *Lancet HIV*. 2021 Sep;8(9):e524-e526. doi: 10.1016/S2352-3018(21)00183-1. Epub 2021 Aug 4. PMID: 34363788; PMCID: PMC8336967. (Invited commentary)
109. **Madhi SA**, Izu A, Pollard AJ. ChAdOx1 nCoV-19 Vaccine Efficacy against the B.1.351 Variant. Reply. *N Engl J Med*. 2021 Aug 5;385(6):571-572. doi: 10.1056/NEJMc2110093. Epub 2021 Jul 21. PMID: 34289271. (Invited reply to letter)
110. Liu C, Ginn HM, Dejnirattisai W, Supasa P, Wang B, Tuekprakhon A, Nutalai R, Zhou D, Mentzer AJ, Zhao Y, Duyvesteyn HME, López-Camacho C, Slon-Campos J, Walter TS, Skelly D, Johnson SA, Ritter TG, Mason C, Costa Clemens SA, Gomes Naveca F, Nascimento V, Nascimento F, Fernandes da Costa C, Resende PC, Pauvolid-Correa A, Siqueira MM, Dold C, Temperton N, Dong T, Pollard AJ, Knight JC, Crook D, Lambe T, Clutterbuck E, Bibi S, Flaxman A, Bittaye M, Belij-Rammerstorfer S, Gilbert SC, Malik T, Carroll MW, Klenerman P, Barnes E, Dunachie SJ, Baillie VL, Serafin N, Ditse Z, Da Silva K, Paterson NG, Williams MA, Hall DR, **Madhi SA**, Nunes MC, Goulder P, Fry EE, Mongkolsapaya J, Ren J, Stuart DI, Screaton GR. Reduced neutralization of SARS-CoV-2 B.1.617 by vaccine and convalescent serum. *Cell*. 2021 Aug 5;184(16):4220-4236.e13. doi: 10.1016/j.cell.2021.06.020. Epub 2021 Jun 17. PMID: 34242578; PMCID: PMC8218332.
111. Paleker M, Tembo YA, Davies MA, Mahomed H, Pienaar D, **Madhi SA**, McCarthy K. Asymptomatic COVID-19 in South Africa - implications for the control of transmission. *Public Health Action*. 2021 Jun 21;11(2):58-60. doi: 10.5588/pha.20.0069. PMID: 34159063; PMCID: PMC8202632.
112. Shinde V, Bhikha S, Hoosain Z, Archary M, Bhorat Q, Fairlie L, Lalloo U, Masilela MSL, Moodley D, Hanley S, Fouche L, Louw C, Tameris M, Singh N, Goga A, Dheda K, Grobbelaar C, Kruger G, Carrim-Ganey N, Baillie VL, de Oliveira T, Lombard Koen A, Lombaard JJ, Mngqibisa R, Bhorat AE, Benadé G, Lalloo N, Pitsi A, Vollgraaff PL, Luabeya A, Esmail A, Petrick FG, Oommen-Jose A, Foulkes S, Ahmed K, Thombrayil A, Fries L, Cloney-Clark S, Zhu M, Bennett C, Albert G, Faust E, Plested JS, Robertson A, Neal S, Cho I, Glenn GM, Dubovsky F, **Madhi SA**; 2019nCoV-501 Study Group. Efficacy of NVX-CoV2373 Covid-19 Vaccine against the B.1.351 Variant. *N Engl J Med*. 2021 May 20;384(20):1899-1909. doi: 10.1056/NEJMoa2103055. Epub 2021 May 5. PMID: 33951374; PMCID: PMC8091623.
113. Nunes MC, Baillie VL, Kwatra G, Bhikha S, Verwey C, Menezes C, Cutland CL, Moore DP, Dangor Z, Adam Y, Mathivha R, Velaphi SC, Tsitsi M, Aguas R, **Madhi SA**; Bara HCW Study Group. Severe Acute Respiratory Syndrome Coronavirus 2 Infection Among Healthcare Workers in South Africa: A Longitudinal Cohort Study. *Clin Infect Dis*. 2021 Nov 16;73(10):1896-1900. doi: 10.1093/cid/ciab398. PMID: 33949670; PMCID: PMC8135922.
114. Gray G, Van der Heever A, **Madhi SA**, McIntyre J, Kana B, Stevens W, Sanne I, Richards G, Abdullah F, Mendelson M, Dasoo A, Nel J, Wulfsohn A, Blumberg L, Venter F. The Scientists' Collective 10-point proposal for equitable and timeous access to COVID-19 vaccine in South Africa. *S Afr Med J*. 2020 Dec 14;111(2):89-94. doi: 10.7196/SAMJ.2021.v111i2.15498. PMID: 33944712. (Commentary)
115. **Madhi SA**, Baillie VL, Cutland CL, Voysey M, Koen AL, Fairlie L, Padayachee SD, Dheda K, Barnabas SL, Bhorat QE, Briner C, Kwatra G, Ahmed K, Aley P, Bhikha S, Bhiman JN, Bhorat AE, du Plessis J, Esmail A, Groenewald M, Horne E, Hwa SH, Jose A, Lambe T, Laubscher M, Malahleha M, Masenya M, Masilela M, Mckenzie S, Molapo K, Moultrie A, Oelofse S, Patel F, Pillay S, Rhead S, Rodel H, Rossouw L, Taoushanis C, Tegally H, Thombrayil A, van Eck S, Wibmer CK, Durham NM, Kelly EJ, Villafana TL, Gilbert S, Pollard AJ, de Oliveira T, Moore PL, Sigal A, Izu A; NGS-SA Group; Wits-VIDA COVID Group. Efficacy of the ChAdOx1 nCoV-19

- Covid-19 Vaccine against the B.1.351 Variant. *N Engl J Med*. 2021 May 20;384(20):1885-1898. doi: 10.1056/NEJMoa2102214. Epub 2021 Mar 16. PMID: 33725432; PMCID: PMC7993410.
116. Voysey M, Costa Clemens SA, **Madhi SA**, Weckx LY, Folegatti PM, Aley PK, Angus B, Baillie VL, Barnabas SL, Bhorat QE, Bibi S, Briner C, Cicconi P, Clutterbuck EA, Collins AM, Cutland CL, Darton TC, Dheda K, Dold C, Duncan CJA, Emary KRW, Ewer KJ, Flaxman A, Fairlie L, Faust SN, Feng S, Ferreira DM, Finn A, Galiza E, Goodman AL, Green CM, Green CA, Greenland M, Hill C, Hill HC, Hirsch I, Izu A, Jenkin D, Joe CCD, Kerridge S, Koen A, Kwatra G, Lazarus R, Libri V, Lillie PJ, Marchevsky NG, Marshall RP, Mendes AVA, Milan EP, Minassian AM, McGregor A, Mujadidi YF, Nana A, Padayachee SD, Phillips DJ, Pittella A, Plested E, Pollock KM, Ramasamy MN, Ritchie AJ, Robinson H, Schwarzbald AV, Smith A, Song R, Snape MD, Sprinz E, Sutherland RK, Thomson EC, Török ME, Toshner M, Turner DPJ, Vekemans J, Villafana TL, White T, Williams CJ, Douglas AD, Hill AVS, Lambe T, Gilbert SC, Pollard AJ; Oxford COVID Vaccine Trial Group. Single-dose administration and the influence of the timing of the booster dose on immunogenicity and efficacy of ChAdOx1 nCoV-19 (AZD1222) vaccine: a pooled analysis of four randomised trials. *Lancet*. 2021 Mar 6;397(10277):881-891. doi: 10.1016/S0140-6736(21)00432-3. Epub 2021 Feb 19. Erratum in: *Lancet*. 2021 Mar 6;397(10277):880. PMID: 33617777; PMCID: PMC7894131.
 117. Mendelson M, Nel J, Blumberg L, **Madhi SA**, Dryden M, Stevens W, Venter FWD. Long-COVID: An evolving problem with an extensive impact. *S Afr Med J*. 2020 Nov 23;111(1):10-12. doi: 10.7196/SAMJ.2020.v111i11.15433. PMID: 33403997. (Commentary)
 118. Voysey M, Clemens SAC, **Madhi SA**, Weckx LY, Folegatti PM, Aley PK, Angus B, Baillie VL, Barnabas SL, Bhorat QE, Bibi S, Briner C, Cicconi P, Collins AM, Colin-Jones R, Cutland CL, Darton TC, Dheda K, Duncan CJA, Emary KRW, Ewer KJ, Fairlie L, Faust SN, Feng S, Ferreira DM, Finn A, Goodman AL, Green CM, Green CA, Heath PT, Hill C, Hill H, Hirsch I, Hodgson SHC, Izu A, Jackson S, Jenkin D, Joe CCD, Kerridge S, Koen A, Kwatra G, Lazarus R, Lawrie AM, Lelliott A, Libri V, Lillie PJ, Mallory R, Mendes AVA, Milan EP, Minassian AM, McGregor A, Morrison H, Mujadidi YF, Nana A, O'Reilly PJ, Padayachee SD, Pittella A, Plested E, Pollock KM, Ramasamy MN, Rhead S, Schwarzbald AV, Singh N, Smith A, Song R, Snape MD, Sprinz E, Sutherland RK, Tarrant R, Thomson EC, Török ME, Toshner M, Turner DPJ, Vekemans J, Villafana TL, Watson MEE, Williams CJ, Douglas AD, Hill AVS, Lambe T, Gilbert SC, Pollard AJ; Oxford COVID Vaccine Trial Group. Safety and efficacy of the ChAdOx1 nCoV-19 vaccine (AZD1222) against SARS-CoV-2: an interim analysis of four randomised controlled trials in Brazil, South Africa, and the UK. *Lancet*. 2021 Jan 9;397(10269):99-111. doi: 10.1016/S0140-6736(20)32661-1. Epub 2020 Dec 8. Erratum in: *Lancet*. 2021 Jan 9;397(10269):98. PMID: 33306989; PMCID: PMC7723445.
 119. Mendelson M, **Madhi SA**. South Africa's coronavirus testing strategy is broken and not fit for purpose: It's time for a change. *S Afr Med J*. 2020 May 12;110(6):429-431. PMID: 32880536.(Letter)
 120. **Madhi SA**, Gray GE, Ismail N, Izu A, Mendelson M, Cassim N, Stevens W, Venter F. COVID-19 lockdowns in low- and middle-income countries: Success against COVID-19 at the price of greater costs. *S Afr Med J*. 2020 Jun 19;110(8):724-726. PMID: 32880296. (Letter)
 121. Hofman K, **Madhi SA**. The unanticipated costs of COVID-19 to South Africa's quadruple disease burden. *S Afr Med J*. 2020 Jul 16;110(8):698-699. PMID: 32880282. (Letter)
 122. Gray CM, Peter J, Mendelson M, **Madhi SA**, Blackburn JM. COVID-19 antibody testing: From hype to immunological reality. *S Afr Med J*. 2020 Jul 27;110(9):837-841. PMID: 32880263 (Letter)

123. Dashraath P, Nielsen-Saines K, **Madhi SA**, Baud D. COVID-19 vaccines and neglected pregnancy. *Lancet*. 2020 Sep 5;396(10252):e22. doi: 10.1016/S0140-6736(20)31822-5. Epub 2020 Aug 27. PMID: 32861313; PMCID: PMC7723327. (Letter)

Respiratory syncytial virus

124. Madhi SA, Ceballos A, Cousin L, Domachowske JB, Langley JM, Lu E, Puthanakit T, Rämetsä M, Tan A, Zaman K, Anspach B, Bueso A, Cinconze E, Colas JA, D'Andrea U, Dieussaert I, Englund JA, Gandhi S, Jose L, Karhusaari H, Kim JH, Klein NP, Laajalahti O, Mithani R, Ota MOC, Pinto M, Silas P, Stoszek SK, Tangsathapornpong A, Teeratakulpisarn J, Virta M, Cohen RA. Population Attributable Risk of Wheeze in 2- and 6-Year-old Children, Following a Respiratory Syncytial Virus Lower Respiratory Tract Infection in The First 2 Years of Life. *Pediatr Infect Dis J*. 2024 Jul 1. doi: 10.1097/INF.0000000000004447. Epub ahead of print. PMID: 38985986.
125. Langedijk AC, Vrancken B, Lebbink RJ, Wilkins D, Kelly EJ, Baraldi E, Mascareñas de Los Santos AH, Danilenko DM, Choi EH, Palomino MA, Chi H, Keller C, Cohen R, Papenburg J, Pernica J, Greenough A, Richmond P, Martínón-Torres F, Heikkinen T, Stein RT, Hosoya M, Nunes MC, Verwey C, Evers A, Kragten-Tabatabaie L, Suchard MA, Kosakovsky Pond SL, Poletto C, Colizza V, Lemey P, Bont LJ; INFORM-RSV Study Group. The genomic evolutionary dynamics and global circulation patterns of respiratory syncytial virus. *Nat Commun*. 2024 Apr 10;15(1):3083. doi: 10.1038/s41467-024-47118-6. PMID: 38600104; PMCID: PMC11006891. **[Part of group authorship]**
126. Dagan R, Hammitt LL, Seoane Nuñez B, Baca Cots M, Bosheva M, **Madhi SA**, Muller WJ, Zar HJ, Chang Y, Currie A, Grenham A, Shroff M, Takas T, Mankad VS, Leach A, Villafana T. Infants Receiving a Single Dose of Nirsevimab to Prevent RSV Do Not Have Evidence of Enhanced Disease in Their Second RSV Season. *J Pediatric Infect Dis Soc*. 2024 Feb 26;13(2):144-147. doi: 10.1093/jpids/piad113. PMID: 38219024; PMCID: PMC10896255.
127. Ahani B, Tuffy KM, Aksyuk AA, Wilkins D, Abram ME, Dagan R, Domachowske JB, Guest JD, Ji H, Kushnir A, Leach A, **Madhi SA**, Mankad VS, Simões EAF, Sparklin B, Speer SD, Stanley AM, Tabor DE, Hamrén UW, Kelly EJ, Villafana T. Author Correction: Molecular and phenotypic characteristics of RSV infections in infants during two nirsevimab randomized clinical trials. *Nat Commun*. 2024 Apr 8;15(1):3026. doi: 10.1038/s41467-024-47421-2. Erratum for: *Nat Commun*. 2023 Jul 19;14(1):4347. doi: 10.1038/s41467-023-40057-8. PMID: 38589384; PMCID: PMC11001890.
128. Verwey C, Dangor Z, **Madhi SA**. Approaches to the Prevention and Treatment of Respiratory Syncytial Virus Infection in Children: Rationale and Progress to Date. *Paediatr Drugs*. 2024 Mar;26(2):101-112. doi: 10.1007/s40272-023-00606-6. Epub 2023 Nov 30. PMID: 38032456; PMCID: PMC10891269.
129. Wang X, Li Y, Shi T, Bont LJ, Chu HY, Zar HJ, Wahi-Singh B, Ma Y, Cong B, Sharland E, Riley RD, Deng J, Figueras-Aloy J, Heikkinen T, Jones MH, Liese JG, Markić J, Mejias A, Nunes MC, Resch B, Satav A, Yeo KT, Simões EAF, Nair H; Respiratory Virus Global Epidemiology Network; RESCEU investigators. Global disease burden of and risk factors for acute lower respiratory infections caused by respiratory syncytial virus in preterm infants and young children in 2019: a systematic review and meta-analysis of aggregated and individual participant data. *Lancet*. 2024 Mar 30;403(10433):1241-1253. doi: 10.1016/S0140-6736(24)00138-7. Epub 2024 Feb 14. PMID: 38367641. **[Part of group authorship]**
130. Moyes J, Tempia S, Walaza S, McMorrough ML, Cohen AL, Treurnicht F, Hellferscee O, Wolter N, Von Gottberg A, Dawood H, Variava E, Kahn K, **Madhi SA**, Cohen C. The attributable fraction of respiratory syncytial virus among patients of different ages with influenza-like

- illness and severe acute respiratory illness in a high HIV prevalence setting, South Africa, 2012-2016. *Int J Infect Dis.* 2023 Sep;134:71-77. doi: 10.1016/j.ijid.2023.05.009. Epub 2023 May 20. PMID: 37211271; PMCID: PMC10675839.
131. Ahani B, Tuffy KM, Aksyuk AA, Wilkins D, Abram ME, Dagan R, Domachowske JB, Guest JD, Ji H, Kushnir A, Leach A, **Madhi SA**, Mankad VS, Simões EAF, Sparklin B, Speer SD, Stanley AM, Tabor DE, Hamrén UW, Kelly EJ, Villafana T. Molecular and phenotypic characteristics of RSV infections in infants during two nirsevimab randomized clinical trials. *Nat Commun.* 2023 Jul 19;14(1):4347. doi: 10.1038/s41467-023-40057-8. PMID: 37468530; PMCID: PMC10356750.
 132. Moyes J, Tempia S, Walaza S, McMorro ML, Cohen AL, Treurnicht F, Hellferscee O, Wolter N, Von Gottberg A, Dawood H, Variava E, Kahn K, **Madhi SA**, Cohen C. The attributable fraction of respiratory syncytial virus among patients of different ages with influenza-like illness and severe acute respiratory illness in a high HIV prevalence setting, South Africa, 2012-2016. *Int J Infect Dis.* 2023 May 20;134:71-77. doi: 10.1016/j.ijid.2023.05.009. Epub ahead of print. PMID: 37211271.
 133. Carbonell-Estrany X, Simões EA, Bont LJ, Paes BA; RSV Prevention Collaborators. Prioritising respiratory syncytial virus prevention in low-income and middle-income countries. *Lancet Glob Health.* 2023 May;11(5):e655-e657. doi: 10.1016/S2214-109X(23)00165-1. PMID: 37061306. **[Part of Group Authorship]**
 134. Verwey C, Ramocha L, Laubscher M, Baillie VL, Nunes M, Gray D, Hantos Z, Dangor Z, **Madhi SA**. Pulmonary sequelae in 2-year-old children after hospitalisation for respiratory syncytial virus lower respiratory tract infection during infancy: an observational study. *BMJ Open Respir Res.* 2023 May;10(1):e001618. doi: 10.1136/bmjresp-2023-001618. PMID: 37169402; PMCID:PMC10186461.
 135. Englund JA, Cohen RA, Bianco V, Domachowske JB, Langley JM, **Madhi SA**, Zaman K, Bueso A, Ceballos A, Cousin L, Gandhi S, Gruselle O, Jose L, Klein NP, Koen A, Puthanaki T, Shi M, Silas P, Tangsathapornpong A, Teeratakulpisarn J, Vesikari T, Haars G, Leach A, Stoszek SK, Dieussaert I. Evaluation of clinical case definitions for respiratory syncytial virus lower respiratory tract infection in young children. *J Pediatric Infect Dis Soc.* 2023 May 5;12(5):273–81. doi: 10.1093/jpids/piad028. Epub ahead of print. PMID: 37142551;PMCID: PMC10231393.
 136. Verwey C, **Madhi SA**. Review and Update of Active and Passive Immunization Against Respiratory Syncytial Virus. *BioDrugs.* 2023 May;37(3):295-309. doi: 10.1007/s40259-023-00596-4. Epub 2023 Apr 25. PMID: 37097594; PMCID: PMC10127166. (Review)
 137. Carbonell-Estrany X, Simões EA, Bont LJ, Paes BA, **Madhi SA** et al.; RSV Prevention Collaborators. Prioritising respiratory syncytial virus prevention in low-income and middle-income countries. *Lancet Glob Health.* 2023 May;11(5):e655-e657. doi: 10.1016/S2214-109X(23)00165-1. PMID: 37061306. (Commentary)
 138. Kampmann B, **Madhi SA**, Munjal I, Simões EAF, Pahud BA, Llapur C, Baker J, Pérez Marc G, Radley D, Shittu E, Glanternik J, Snaggs H, Baber J, Zachariah P, Barnabas SL, Fausett M, Adam T, Perreras N, Van Houten MA, Kantele A, Huang LM, Bont LJ, Otsuki T, Vargas SL, Gullam J, Tapiero B, Stein RT, Polack FP, Zar HJ, Staerke NB, Duron Padilla M, Richmond PC, Koury K, Schneider K, Kalinina EV, Cooper D, Jansen KU, Anderson AS, Swanson KA, Gruber WC, Gurtman A; MATISSE Study Group. Bivalent Prefusion F Vaccine in Pregnancy to Prevent RSV Illness in Infants. *N Engl J Med.* 2023 Apr 20;388(16):1451-1464. doi: 10.1056/NEJMoa2216480. Epub 2023 Apr 5. PMID: 37018474. **(Note- co-primary author)**
 139. Muller WJ, **Madhi SA**, Seoane Nuñez B, Baca Cots M, Bosheva M, Dagan R, Hammitt LL, Llapur CJ, Novoa JM, Saez Llorens X, Grenham A, Kelly EJ, Mankad VS, Shroff M, Takas T, Leach A, Villafana T; MELODY Study Group. Nirsevimab for Prevention of RSV in Term and

- Late-Preterm Infants. *N Engl J Med.* 2023 Apr 20;388(16):1533-1534. doi: 10.1056/NEJMc2214773. Epub 2023 Apr 5. PMID: 37018470.
140. Bebia Z, Reyes O, Jeanfreau R, Kantele A, De Leon RG, García Sánchez M, Banooni P, Gardener GJ, Bartha Rasero JL, Encinas Pardilla MB, Langley JM, Di Leo CM, Botelho-Nevers E, Buttery J, Laurichesse H, **Madhi SA**, García AM, Stanley T, Barjat T, Griffith R, Castrejón-Alba MM, de Heusch M, Dieussaert I, Hercor M, Lese P, Qian H, Tullio AN, Henry O. Safety and immunogenicity of an investigational respiratory syncytial virus vaccine (RSVPreF3) in mothers and their infants: a phase 2 randomized trial. *J Infect Dis.* 2023 Feb 1;jjad024. doi: 10.1093/infdis/jiad024. Epub ahead of print. PMID: 36722147.
141. Simões EAF, **Madhi SA**, Muller WJ, Atanasova V, Bosheva M, Cabañas F, Baca Cots M, Domachowske JB, Garcia-Garcia ML, Grantina I, Nguyen KA, Zar HJ, Berglind A, Cummings C, Griffin MP, Takas T, Yuan Y, Wählby Hamrén U, Leach A, Villafana T. Efficacy of nirsevimab against respiratory syncytial virus lower respiratory tract infections in preterm and term infants, and pharmacokinetic extrapolation to infants with congenital heart disease and chronic lung disease: a pooled analysis of randomised controlled trials. *Lancet Child Adolesc Health.* 2023 Mar;7(3):180-189. doi: 10.1016/S2352-4642(22)00321-2. Epub 2023 Jan 9. PMID: 36634694; PMCID: PMC9940918.
142. Löwensteyn YN, Willemsen JE, Mazur NI, Scheltema NM, van Haastregt NCJ, Buuren AAAT, van Roessel I, Scheepmaker D, Nair H, van de Ven PM, Bont LJ; on behalf of the RSV GOLD Study Group. Nosocomial RSV-related In-hospital Mortality in Children <5 Years: A Global Case Series. *Pediatr Infect Dis J.* 2023 Jan 1;42(1):1-7. doi: 10.1097/INF.0000000000003747. Epub 2022 Nov 8. PMID: 36476518; PMCID: PMC9891274. **[Part of Group authorship]**
143. Langley JM, Bianco V, Domachowske JB, **Madhi SA**, Stoszek SK, Zaman K, Bueso A, Ceballos A, Cousin L, D'Andrea U, Dieussaert I, Englund JA, Gandhi S, Gruselle O, Haars G, Jose L, Klein NP, Leach A, Maleux K, Nguyen TL, Puthanakit T, Silas P, Tangsathapornpong A, Teeratakulpisarn J, Vesikari T, Cohen RA. Incidence of respiratory syncytial virus lower respiratory tract infections during the first 2 years of life: A prospective study across diverse global settings. *J Infect Dis.* 2022 Jun 6;jiac227. doi: 10.1093/infdis/jiac227. Epub ahead of print. PMID: 35668702.
144. Li Y, Wang X, Blau DM, Caballero MT, Feikin DR, Gill CJ, **Madhi SA**, Omer SB, Simões EAF, Campbell H, Pariente AB, Bardach D, Bassat Q, Casalegno JS, Chakhunashvili G, Crawford N, Danilenko D, Do LAH, Echavarria M, Gentile A, Gordon A, Heikkinen T, Huang QS, Jullien S, Krishnan A, Lopez EL, Markić J, Mira-Iglesias A, Moore HC, Moyes J, Mwananyanda L, Nokes DJ, Noordeen F, Obodai E, Palani N, Romero C, Salimi V, Satav A, Seo E, Shchomak Z, Singleton R, Stolyarov K, Stoszek SK, von Gottberg A, Wurzel D, Yoshida LM, Yung CF, Zar HJ; Respiratory Virus Global Epidemiology Network, Nair H; RESCEU investigators. Global, regional, and national disease burden estimates of acute lower respiratory infections due to respiratory syncytial virus in children younger than 5 years in 2019: a systematic analysis. *Lancet.* 2022 May 28;399(10340):2047-2064. doi: 10.1016/S0140-6736(22)00478-0. Epub 2022 May 19. PMID: 35598608.
145. Domachowske J, **Madhi SA**, Simões EAF, Atanasova V, Cabañas F, Furuno K, Garcia-Garcia ML, Grantina I, Nguyen KA, Brooks D, Chang Y, Leach A, Takas T, Yuan Y, Griffin MP, Mankad VS, Villafana T; MEDLEY Study Group. Safety of Nirsevimab for RSV in Infants with Heart or Lung Disease or Prematurity. *N Engl J Med.* 2022 Mar 3;386(9):892-894. doi: 10.1056/NEJMc2112186. PMID: 35235733.
146. Hammitt LL, Dagan R, Yuan Y, Baca Cots M, Bosheva M, **Madhi SA**, Muller WJ, Zar HJ, Brooks D, Grenham A, Wählby Hamrén U, Mankad VS, Ren P, Takas T, Abram ME, Leach A, Griffin MP, Villafana T; MELODY Study Group. Nirsevimab for Prevention of RSV in Healthy Late-

- Preterm and Term Infants. *N Engl J Med.* 2022 Mar 3;386(9):837-846. doi: 10.1056/NEJMoa2110275. PMID: 35235726.
147. Blau DM, Baillie VL, Els T, Mahtab S, Mutevedzi PC, Keita AM, Kotloff KL, Mehta A, Sow SO, Tapia MD, Tippet Barr BA, Oluoch BO, Onyango C, Revathi G, Verani JR, Abayneh M, Assefa N, Madrid L, Oundo JO, Scott JAG, Bassat Q, Mandomando I, Siteo A, Valente M, Varo R, Basseya IA, Cain CJ, Jambai A, Ogbuanu I, Ojulong J, Alam M, El Arifeen S, Gurley ES, Rahman A, Rahman M, Waller JL, Dewey B, Breiman RF, Whitney CG, **Madhi SA**; CHAMPS Consortium. Deaths Attributed to Respiratory Syncytial Virus in Young Children in High-Mortality Rate Settings: Report from Child Health and Mortality Prevention Surveillance (CHAMPS). *Clin Infect Dis.* 2021 Sep 2;73(Suppl_3):S218-S228. doi: 10.1093/cid/ciab509. PMID: 34472577; PMCID: PMC8411256.
148. Mazur NI, Löwensteyn YN, Willemsen JE, Gill CJ, Forman L, Mwananyanda LM, Blau DM, Breiman RF, **Madhi SA**, Mahtab S, Gurley ES, El Arifeen S, Assefa N, Scott JAG, Onyango D, Tippet Barr BA, Kotloff KL, Sow SO, Mandomando I, Ogbuanu I, Jambai A, Bassat Q; CHAMPS Network the RSV GOLD Study Group, Caballero MT, Polack FP, Omer S, Kazi AM, Simões EAF, Satav A, Bont LJ. Global Respiratory Syncytial Virus-Related Infant Community Deaths. *Clin Infect Dis.* 2021 Sep 2;73(Suppl_3):S229-S237. doi: 10.1093/cid/ciab528. PMID: 34472576; PMCID: PMC8411255.
149. Wang X, Li Y, Deloria-Knoll M, **Madhi SA**, Cohen C, Arguelles VL, Basnet S, Bassat Q, Brooks WA, Echavarría M, Fasce RA, Gentile A, Goswami D, Homaira N, Howie SRC, Kotloff KL, Khuri-Bulos N, Krishnan A, Lucero MG, Lupisan S, Mathisen M, McLean KA, Mira-Iglesias A, Moraleda C, Okamoto M, Oshitani H, O'Brien KL, Owor BE, Rasmussen ZA, Rath BA, Salimi V, Sawatwong P, Scott JAG, Simões EAF, Sotomayor V, Thea DM, Treurnicht FK, Yoshida LM, Zar HJ, Campbell H, Nair H; Respiratory Virus Global Epidemiology Network. Global burden of acute lower respiratory infection associated with human parainfluenza virus in children younger than 5 years for 2018: a systematic review and meta-analysis. *Lancet Glob Health.* 2021 Aug;9(8):e1077-e1087. doi: 10.1016/S2214-109X(21)00218-7. Epub 2021 Jun 21. PMID: 34166626; PMCID: PMC8298256.
150. **Madhi SA**, Simões EAF. Single-dose nirsevimab prevents RSV infection. *J Pediatr.* 2021 Jan;228:310-313. doi: 10.1016/j.jpeds.2020.10.066. PMID: 33342497. (Invited commentary)
151. **Madhi SA**, Polack FP, Piedra PA, Munoz FM, Trenholme AA, Simões EAF, Swamy GK, Agrawal S, Ahmed K, August A, Baqui AH, Calvert A, Chen J, Cho I, Cotton MF, Cutland CL, Englund JA, Fix A, Gonik B, Hammitt L, Heath PT, de Jesus JN, Jones CE, Khalil A, Kimberlin DW, Libster R, Llapur CJ, Lucero M, Pérez Marc G, Marshall HS, Masenya MS, Martínón-Torres F, Meece JK, Nolan TM, Osman A, Perrett KP, Plested JS, Richmond PC, Snape MD, Shakib JH, Shinde V, Stoney T, Thomas DN, Tita AT, Varner MW, Vatish M, Vrbicky K, Wen J, Zaman K, Zar HJ, Glenn GM, Fries LF; Prepare Study Group. Respiratory Syncytial Virus Vaccination during Pregnancy and Effects in Infants. *N Engl J Med.* 2020 Jul 30;383(5):426-439. doi: 10.1056/NEJMoa1908380. PMID: 32726529; PMCID: PMC7299433.
152. Griffin MP, Yuan Y, Takas T, Domachowske JB, **Madhi SA**, Manzoni P, Simões EAF, Esser MT, Khan AA, Dubovsky F, Villafana T, DeVincenzo JP; Nirsevimab Study Group. Single-Dose Nirsevimab for Prevention of RSV in Preterm Infants. *N Engl J Med.* 2020 Jul 30;383(5):415-425. doi: 10.1056/NEJMoa1913556. Erratum in: *N Engl J Med.* 2020 Aug 13;383(7):698. PMID: 32726528.
153. Verwey C, Nunes MC, Dangor Z, **Madhi SA**. Pulmonary function sequelae after respiratory syncytial virus lower respiratory tract infection in children: A systematic review. *Pediatr Pulmonol.* 2020 Jul;55(7):1567-1583. doi: 10.1002/ppul.24804. Epub 2020 May 4. PMID: 32364320.

154. Liu H, Lu B, Tabor DE, Tovchigrechko A, Wilkins D, Jin H, **Madhi SA**, Soofie N, Esser MT, Nunes MC. Characterization of human respiratory syncytial virus (RSV) isolated from HIV-exposed-uninfected and HIV-unexposed infants in South Africa during 2015-2017. *Influenza Other Respir Viruses*. 2020 Jul;14(4):403-411. doi: 10.1111/irv.12727. Epub 2020 Mar 3. PMID: 32126161; PMCID: PMC7298309
155. Patel SM, Jallow S, Boiditswe S, **Madhi SA**, Feemster KA, Steenhoff AP, Arscott-Mills T, Muthoga C, Ajibola G, Shapiro R, Shah SS, Cunningham CK, Kelly MS. Placental Transfer of Respiratory Syncytial Virus Antibody Among HIV- Exposed, Uninfected Infants. *J Pediatric Infect Dis Soc*. 2020 Jul 13;9(3):349-356. doi: 10.1093/jpids/piz056. PMID: 31549157; PMCID: PMC7358043.

Influenza virus

156. Motsoeneng BM, Dhar N, Nunes MC, Krammer F, **Madhi SA**, Moore PL, Richardson SI. Hemagglutinin stalk-specific Fc-mediated functions are associated with protection against influenza-illness after seasonal influenza vaccination in pregnant women. *J Infect Dis*. 2024 May 14:jiae241. doi: 10.1093/infdis/jiae241. Epub ahead of print. PMID: 38743692.
157. Nunes MC, Walaza S, Meiring S, Zar HJ, Reubenson G, McMorrow M, Tempia S, Rossi L, Itzikowitz R, Bishop K, Mathunjwa A, Wise A, Treurnicht FK, Hellferscee O, Laubscher M, Serafin N, Cutland CL, **Madhi SA**, Cohen C. Effectiveness of Influenza Vaccination of Pregnant Women for Prevention of Maternal and Early Infant Influenza-Associated Hospitalizations in South Africa: A Prospective Test-Negative Study. *Open Forum Infect Dis*. 2022 Oct 19;9(11):ofac552. doi: 10.1093/ofid/ofac552. PMID: 36447608; PMCID: PMC9697604.
158. Motsoeneng BM, Dhar N, Nunes MC, Krammer F, **Madhi SA**, Moore PL, Richardson SI. Influenza Vaccination Results in Differential Hemagglutinin Stalk-Specific Fc-Mediated Functions in Individuals Living With or Without HIV. *Front Immunol*. 2022 Apr 19;13:873191. doi: 10.3389/fimmu.2022.873191. PMID: 35514992; PMCID: PMC9062095.
- 159.** Löwensteyn YN, Nair H, Nunes MC, van Roessel I, Vernooij FS, Willemssen J, Bont LJ, Mazur NI; FLU GOLD study group. Estimated impact of maternal vaccination on global paediatric influenza-related in-hospital mortality: A retrospective case series. *EClinicalMedicine*. 2021 Jun 10;37:100945. doi: 10.1016/j.eclinm.2021.100945. PMID: 34386739; PMCID: PMC8343247. **[Part of Group Authorship]**
160. Amin AB, Nunes MC, Tapia MD, **Madhi SA**, Cutland CL, Wairagkar N, Omer SB; for BMGF Supported Maternal Influenza Immunization Trials Investigators Group. Immunogenicity of influenza vaccines administered to pregnant women in randomized clinical trials in Mali and South Africa. *Vaccine*. 2020 Sep 22;38(41):6478-6483. doi: 10.1016/j.vaccine.2020.07.020. Epub 2020 Aug 29. PMID: 32868130; PMCID: PMC7505225.
161. Omer SB, Clark DR, **Madhi SA**, Tapia MD, Nunes MC, Cutland CL, Simões EAF, Aqil AR, Katz J, Tielsch JM, Steinhoff MC, Wairagkar N; BMGF Supported Maternal Influenza Immunization Trials Investigators Group. Efficacy, duration of protection, birth outcomes, and infant growth associated with influenza vaccination in pregnancy: a pooled analysis of three randomised controlled trials. *Lancet Respir Med*. 2020 Jun;8(6):597-608. doi: 10.1016/S2213-2600(19)30479-5. PMID: 32526188; PMCID: PMC7284303.
162. Clark DR, Omer SB, Tapia MD, Nunes MC, Cutland CL, Tielsch JM, Wairagkar N, **Madhi SA**; for BMGF Supported Maternal Influenza Immunization Trials Investigators Group. Influenza or Meningococcal Immunization During Pregnancy and Mortality in Women and Infants: A

- Pooled Analysis of Randomized Controlled Trials. *Pediatr Infect Dis J*. 2020 Jul;39(7):641-644. doi: 10.1097/INF.0000000000002629. PMID: 32379201; PMCID: PMC7279057.
163. Lina B, Georges A, Burtseva E, Nunes MC, Andrew MK, McNeil SA, Ruiz-Palacios GM, Feng L, Kyncl J, Vanhems P, Ortiz JR, Paget J, Reiner RC; GIHSN 2017–2018 study collaborators. Complicated hospitalization due to influenza: results from the Global Hospital Influenza Network for the 2017-2018 season. *BMC Infect Dis*. 2020 Jul 2;20(1):465. doi: 10.1186/s12879-020-05167-4. PMID: 32615985; PMCID: PMC7330273. **[Part of Group Authorship]**
164. Wang X, Li Y, O'Brien KL, **Madhi SA**, Widdowson MA, Byass P, Omer SB, Abbas Q, Ali A, Amu A, Azziz-Baumgartner E, Bassat Q, Abdullah Brooks W, Chaves SS, Chung A, Cohen C, Echavarría M, Fasce RA, Gentile A, Gordon A, Groome M, Heikkinen T, Hirve S, Jara JH, Katz MA, Khuri-Bulos N, Krishnan A, de Leon O, Lucero MG, McCracken JP, Mira-Iglesias A, Moïsi JC, Munywoki PK, Ourohiré M, Polack FP, Rahi M, Rasmussen ZA, Rath BA, Saha SK, Simões EA, Sotomayor V, Thamthitawat S, Treurnicht FK, Wamukoya M, Yoshida LM, Zar HJ, Campbell H, Nair H; Respiratory Virus Global Epidemiology Network. Global burden of respiratory infections associated with seasonal influenza in children under 5 years in 2018: a systematic review and modelling study. *Lancet Glob Health*. 2020 Apr;8(4):e497-e510. doi: 10.1016/S2214-109X(19)30545-5. Epub 2020 Feb 20. PMID: 32087815; PMCID: PMC7083228.
165. Nunes MC, Cutland CL, Moultrie A, Jones S, Ortiz JR, Neuzil KM, Klugman KP, Simões EAF, Weinberg A, **Madhi SA**; Maternal Flu Trial Team. Immunogenicity and safety of different dosing schedules of trivalent inactivated influenza vaccine in pregnant women with HIV: a randomised controlled trial. *Lancet HIV*. 2020 Feb;7(2):e91-e103. doi: 10.1016/S2352-3018(19)30322-4. Epub 2020 Jan 3. PMID: 31911146; PMCID: PMC7167514.

Human Metapneumovirus, Rhinovirus, parainfluenza virus and endemic coronavirus

166. Ramocha LM, Dorfman JR, Groome M, Baillie VL, Verwey C, Laubscher M, Nunes MC, **Madhi SA**. Human Metapneumovirus-Associated Hospitalization in HIV-1 Exposed Uninfected and HIV-1 Uninfected Children Less Than 5 Years in South Africa. *J Pediatric Infect Dis Soc*. 2023 Feb 9;12(1):53-55. doi: 10.1093/jpids/piac112. PMID: 36306473.
167. Ramocha LM, van den Hoogen BG, Baillie VL, van Nieuwkoop S, Cutland CL, Jones S, Moultrie A, Izu A, Verwey C, **Madhi SA**, Dorfman JR. Fetal Transfer of Human Metapneumovirus-Neutralizing Antibodies Is Reduced From Mothers Living With HIV-1. *J Pediatric Infect Dis Soc*. 2022 Apr 7:piac018. doi: 10.1093/jpids/piac018. Epub ahead of print. PMID: 35390156.
168. Ramocha LM, Mutsaerts EAML, Verwey C, **Madhi SA**. Epidemiology of Human Metapneumovirus-associated Lower Respiratory Tract Infections in African Children: Systematic Review and Meta-analysis. *Pediatr Infect Dis J*. 2021 May 1;40(5):479-485. doi: 10.1097/INF.0000000000003041. PMID: 33480663
169. Wang X, Li Y, Deloria-Knoll M, **Madhi SA**, Cohen C, Ali A, Basnet S, Bassat Q, Brooks WA, Chittaganpitch M, Echavarría M, Fasce RA, Goswami D, Hirve S, Homaira N, Howie SRC, Kotloff KL, Khuri-Bulos N, Krishnan A, Lucero MG, Lupisan S, Mira-Iglesias A, Moore DP, Moraleta C, Nunes M, Oshitani H, Owor BE, Polack FP, O'Brien KL, Rasmussen ZA, Rath BA, Salimi V, Scott JAG, Simões EAF, Strand TA, Thea DM, Treurnicht FK, Vaccari LC, Yoshida LM, Zar HJ, Campbell H, Nair H; Respiratory Virus Global Epidemiology Network. Global burden of acute lower respiratory infection associated with human metapneumovirus in children

under 5 years in 2018: a systematic review and modelling study. *Lancet Glob Health*. 2021 Jan;9(1):e33-e43. doi: 10.1016/S2214-109X(20)30393-4. Epub 2020 Nov 26. PMID: 33248481; PMCID: PMC7783516.

170. Baillie VL, Moore DP, Mathunjwa A, Morailane P, Simões EAF, **Madhi SA**. A prospective case-control study on the association of Rhinovirus nasopharyngeal viral load and viremia in South African children hospitalized with severe pneumonia. *J Clin Virol*. 2020 Apr;125:104288. doi: 10.1016/j.jcv.2020.104288. Epub 2020 Feb 11. PMID: 32092643; PMCID: PMC7086148.

***Mycobacterium tuberculosis*/ Tuberculosis**

171. Cotton MF, **Madhi SA**, Luabeya AK, Tameris M, Hesseling AC, Shenje J, Schoeman E, Hatherill M, Desai S, Kapse D, Brückner S, Koen A, Jose L, Moultrie A, Bhikha S, Walzl G, Gutschmidt A, Kotze LA, Allies DL, Loxton AG, Shaligram U, Abraham M, Johnstone H, Grode L, Kaufmann SHE, Kulkarni PS. Safety and immunogenicity of VPM1002 versus BCG in South African newborn babies: a randomised, phase 2 non-inferiority double-blind controlled trial. *Lancet Infect Dis*. 2022 Jun 27:S1473-3099(22)00222-5. doi: 10.1016/S1473-3099(22)00222-5. Epub ahead of print. PMID: 35772447.
172. Kochhar S, Barreira D, Beattie P, Cavaleri M, Cravioto A, Frick MW, Ginsberg AM, Hudson I, Kaslow DC, Kurtz S, Lienhardt C, **Madhi SA**, Morgan C, Momeni Y, Patel D, Rees H, Rogalski-Salter T, Schmidt A, Semete-Makokotlela B, Voss G, White RG, Zignol M, Giersing B. Building the concept for WHO Evidence Considerations for Vaccine Policy (ECVP): Tuberculosis vaccines intended for adults and adolescents as a test case. *Vaccine*. 2022 Feb 11:S0264-410X(21)01395-5. doi: 10.1016/j.vaccine.2021.10.062. Epub ahead of print. PMID: 35164990. (Report)
173. Alli HD, Ally N, Mayet I, Joseph L, Omar SV, **Madhi SA**. Tubercular Uveitis in Uveitis Cases in a High TB and HIV Setting: A Prospective Cohort Study. *Transl Vis Sci Technol*. 2022 Jan 3;11(1):9. doi: 10.1167/tvst.11.1.9. PMID: 35006262; PMCID: PMC8762688.
174. Alli HD, Ally N, Mayet I, Joseph L, Omar S, **Madhi SA**. Treatment Outcome of Tubercular Uveitis in a High TB and HIV Setting: A Prospective Cohort Study. *Clin Ophthalmol*. 2021 Dec 30;15:4839-4846. doi: 10.2147/OPHTH.S342268. PMID: 35002219; PMCID: PMC8722693.
175. Alli HD, Ally N, Mayet I, Dangor Z, **Madhi SA**. Global prevalence and clinical outcomes of tubercular uveitis: a systematic review and meta-analysis. *Surv Ophthalmol*. 2021 Oct 7:S0039-6257(21)00189-2. doi: 10.1016/j.survophthal.2021.10.001. Epub ahead of print. PMID: 34626620.
176. Naidu G, Izu A, Madimabe MR, Poyiadjis S, MacKinnon D, Rowe B, **Madhi SA**. Burden of Tuberculosis in South African Children During Treatment for Underlying Malignancies: A Single-center Experience in Johannesburg. *Pediatr Infect Dis J*. 2020 Dec;39(12):1111-1115. doi: 10.1097/INF.0000000000002873. PMID: 33165271.
177. Ismail NA, Omar SV, Mvusi L, **Madhi SA**. Prevalence of drug-resistant tuberculosis in South Africa - Authors' reply. *Lancet Infect Dis*. 2018 Aug;18(8):836-837. doi: 10.1016/S1473-3099(18)30422-5. PMID: 30064675.
178. Haraus EP, Garcia-Prats AJ, Law S, Schaaf HS, Kredo T, Seddon JA, Menzies D, Turkova A, Achar J, Amanullah F, Barry P, Becerra M, Chan ED, Chan PC, Ioana Chiotan D, Crossa A, Drobac PC, Fairlie L, Falzon D, Flood J, Gegia M, Hicks RM, Isaakidis P, Kadri SM, Kampmann B, **Madhi SA**, Marais E, Mariandyshev A, Méndez- Echevarría A, Moore BK, Nargiza P, Ozere I, Padayatchi N, Ur-Rehman S, Rybak N, Santiago-Garcia B, Shah NS, Sharma S, Shim TS, Skrahina A, Soriano-Arandes A, van den Boom M, van der Werf MJ, van der Werf TS, Williams

- B, Yablokova E, Yim JJ, Furin J, Hesselning AC; Collaborative Group for Meta-Analysis of Paediatric Individual Patient Data in MDR-TB. Treatment and outcomes in children with multidrug-resistant tuberculosis: A systematic review and individual patient data meta-analysis. *PLoS Med.* 2018 Jul 11;15(7):e1002591. doi: 10.1371/journal.pmed.1002591. PMID: 29995958; PMCID: PMC6040687.
179. Ismail NA, Mvusi L, Nanoo A, Dreyer A, Omar SV, Babatunde S, Molebatsi T, van der Walt M, Adelekan A, Deyde V, Ihekweazu C, **Madhi SA**. Prevalence of drug-resistant tuberculosis and imputed burden in South Africa: a national and sub-national cross-sectional survey. *Lancet Infect Dis.* 2018 Jul;18(7):779-787. doi: 10.1016/S1473-3099(18)30222-6. Epub 2018 Apr 21. PMID: 29685458; PMCID: PMC6800151.
 180. Firth GB, Lescheid J, Camacho M, Esteves M, Beylis N, Groome MJ, **Madhi SA**. Extrapulmonary multidrug-resistant tuberculosis in children: A case series. *S Afr Med J.* 2017 Oct 31;107(11):983-986. doi: 10.7196/SAMJ.2017.v107i11.12577. PMID: 29262940.
 181. Moore DP, Higdon MM, Hammitt LL, Prosperi C, DeLuca AN, Da Silva P, Baillie VL, Adrian PV, Mudau A, Deloria Knoll M, Feikin DR, Murdoch DR, O'Brien KL, **Madhi SA**. The Incremental Value of Repeated Induced Sputum and Gastric Aspirate Samples for the Diagnosis of Pulmonary Tuberculosis in Young Children With Acute Community-Acquired Pneumonia. *Clin Infect Dis.* 2017 Jun 15;64(suppl_3):S309-S316. doi: 10.1093/cid/cix099. PMID: 28575364; PMCID: PMC5447846.
 182. Chaya S, Dangor Z, Solomon F, Nzenze SA, Izu A, **Madhi SA**. Incidence of tuberculosis meningitis in a high HIV prevalence setting: time-series analysis from 2006 to 2011. *Int J Tuberc Lung Dis.* 2016 Nov;20(11):1457-1462. doi: 10.5588/ijtld.15.0845. PMID: 27776585.
 183. Mammen VG, Dangor Z, Moore DP, Izu A, Beylis N, **Madhi SA**. Hospitalization for Culture-confirmed Pulmonary Tuberculosis in the Era of Childhood Pneumococcal Conjugate Vaccine Immunization. *Pediatr Infect Dis J.* 2017 Jan;36(1):e14-e21. doi: 10.1097/INF.0000000000001371. PMID: 27741092.
 184. Maritz ER, Montepiedra G, Liu L, Mitchell CD, **Madhi SA**, Bobat R, Violari A, Ogburn A, Hesselning AC, Cotton MF. Source case identification in HIV-exposed infants and tuberculosis diagnosis in an isoniazid prevention study. *Int J Tuberc Lung Dis.* 2016 Aug;20(8):1060-4. doi: 10.5588/ijtld.15.0602. PMID: 27393540; PMCID: PMC5066391.
 185. Gupta A, Montepiedra G, Gupte A, Zeldow B, Jubulis J, Detrick B, Violari A, **Madhi SA**, Bobat R, Cotton M, Mitchell C, Spector S; IMPAACT NWCS113 and P1041 Study Team. Low Vitamin-D Levels Combined with PKP3-SIGIRR-TMEM16J Host Variants Is Associated with Tuberculosis and Death in HIV-Infected and -Exposed Infants. *PLoS One.* 2016 Feb 12;11(2):e0148649. doi: 10.1371/journal.pone.0148649. PMID: 26872154; PMCID: PMC4752266.
 186. Beneri CA, Aaron L, Kim S, Jean-Philippe P, **Madhi SA**, Violari A, Cotton MF, Mitchell C, Nachman S; P1041 team. Understanding NIH clinical case definitions for pediatric intrathoracic TB by applying them to a clinical trial. *Int J Tuberc Lung Dis.* 2016 Jan;20(1):93-100. doi: 10.5588/ijtld.14.0848. PMID: 26688534; PMCID: PMC4928853.
 187. Nanoo A, Izu A, Ismail NA, Ihekweazu C, Abubakar I, Mametja D, **Madhi SA**. Nationwide and regional incidence of microbiologically confirmed pulmonary tuberculosis in South Africa, 2004-12: a time series analysis. *Lancet Infect Dis.* 2015 Sep;15(9):1066-1076. doi: 10.1016/S1473-3099(15)00147-4. Epub 2015 Jun 22. PMID: 26112077.
 188. Van Rie A, Sawry S, Link-Gelles R, **Madhi SA**, Fairlie L, Verwey C, Mahomed N, Murdoch D, Moultrie H. Paradoxical tuberculosis-associated immune reconstitution inflammatory syndrome in children. *Pediatr Pulmonol.* 2016 Feb;51(2):157-64. doi: 10.1002/ppul.23221. Epub 2015 Jun 14. PMID: 26073306; PMCID: PMC4678030.

189. Oliwa JN, Karumbi JM, Marais BJ, **Madhi SA**, Graham SM. Tuberculosis as a cause or comorbidity of childhood pneumonia in tuberculosis-endemic areas: a systematic review. *Lancet Respir Med*. 2015 Mar;3(3):235-43. doi: 10.1016/S2213-2600(15)00028-4. Epub 2015 Jan 29. PMID: 25648115.
190. Naranbhai V, Kim S, Fletcher H, Cotton MF, Violari A, Mitchell C, Nachman S, McSherry G, McShane H, Hill AV, **Madhi SA**. The association between the ratio of monocytes:lymphocytes at age 3 months and risk of tuberculosis (TB) in the first two years of life. *BMC Med*. 2014 Jul 17;12:120. doi: 10.1186/s12916-014-0120-7. PMID: 25034889; PMCID: PMC4223414.
191. Dangor Z, Izu A, Hillier K, Solomon F, Beylis N, Moore DP, Nunes MC, **Madhi SA**. Impact of the antiretroviral treatment program on the burden of hospitalization for culture-confirmed tuberculosis in South African children: a time-series analysis. *Pediatr Infect Dis J*. 2013 Sep;32(9):972-7. doi: 10.1097/INF.0b013e31828d9aa4. PMID: 23503163.
192. Kiser JJ, Zhu R, D'Argenio DZ, Cotton MF, Bobat R, McSherry GD, **Madhi SA**, Carey VJ, Seifart HI, Werely CJ, Fletcher CV. Isoniazid pharmacokinetics, pharmacodynamics, and dosing in South African infants. *Ther Drug Monit*. 2012 Aug;34(4):446-51. doi: 10.1097/FTD.0b013e31825c4bc3. PMID: 22695364; PMCID: PMC3397663
193. Graham SM, Ahmed T, Amanullah F, Browning R, Cardenas V, Casenghi M, Cuevas LE, Gale M, Gie RP, Grzemska M, Handelsman E, Hatherill M, Hesselning AC, Jean-Philippe P, Kampmann B, Kabra SK, Lienhardt C, Lighter-Fisher J, **Madhi SA**, Makhene M, Marais BJ, McNeeley DF, Menzies H, Mitchell C, Modi S, Mofenson L, Musoke P, Nachman S, Powell C, Rigaud M, Rouzier V, Starke JR, Swaminathan S, Wingfield C. Evaluation of tuberculosis diagnostics in children: 1. Proposed clinical case definitions for classification of intrathoracic tuberculosis disease. Consensus from an expert panel. *J Infect Dis*. 2012 May 15;205 Suppl 2(Suppl 2):S199-208. doi: 10.1093/infdis/jis008. Epub 2012 Mar 22. PMID: 22448023; PMCID: PMC3334506.
194. Hesselning AC, Kim S, **Madhi SA**, Nachman S, Schaaf HS, Violari A, Victor TC, McSherry G, Mitchell C, Cotton MF; IMPAACT P1041 Team. High prevalence of drug resistance amongst HIV-exposed and -infected children in a tuberculosis prevention trial. *Int J Tuberc Lung Dis*. 2012 Feb;16(2):192-5. doi: 10.5588/ijtld.10.0795. PMID: 22236919; PMCID: PMC3265022.
195. Shah M, Kasambira TS, Adrian PV, **Madhi SA**, Martinson NA, Dorman SE. Longitudinal analysis of QuantiFERON-TB Gold In-Tube in children with adult household tuberculosis contact in South Africa: a prospective cohort study. *PLoS One*. 2011;6(10):e26787. doi: 10.1371/journal.pone.0026787. Epub 2011 Oct 31. PMID: 22066009; PMCID: PMC3204993.
196. Rabie H, Violari A, Duong T, **Madhi SA**, Josipovic D, Innes S, Dobbels E, Lazarus E, Panchia R, Babiker AG, Gibb DM, Cotton MF; CHER team. Early antiretroviral treatment reduces risk of bacille Calmette-Guérin immune reconstitution adenitis. *Int J Tuberc Lung Dis*. 2011 Sep;15(9):1194-200, i. doi: 10.5588/ijtld.10.0721. PMID: 21943845; PMCID: PMC3183835.
197. Kasambira TS, Shah M, Adrian PV, Holshouser M, **Madhi SA**, Chaisson RE, Martinson NA, Dorman SE. QuantiFERON-TB Gold In-Tube for the detection of Mycobacterium tuberculosis infection in children with household tuberculosis contact. *Int J Tuberc Lung Dis*. 2011 May;15(5):628-34. doi: 10.5588/ijtld.10.0555. PMID: 21756513.
198. **Madhi SA**, Nachman S, Violari A, Kim S, Cotton MF, Bobat R, Jean-Philippe P, McSherry G, Mitchell C; P1041 Study Team. Primary isoniazid prophylaxis against tuberculosis in HIV-exposed children. *N Engl J Med*. 2011 Jul 7;365(1):21-31. doi: 10.1056/NEJMoa1011214. PMID: 21732834; PMCID: PMC3164539
199. Fairlie L, Beylis NC, Reubenson G, Moore DP, **Madhi SA**. High prevalence of childhood multi-drug resistant tuberculosis in Johannesburg, South Africa: a cross sectional study. *BMC*

- Infect Dis. 2011 Jan 26;11:28. doi: 10.1186/1471-2334-11-28. PMID: 21269475; PMCID: PMC3045316.
200. Edginton ME, Rakgokong L, Verver S, **Madhi SA**, Koornhof HJ, Wong ML, Hodkinson HJ. Tuberculosis culture testing at a tertiary care hospital: options for improved management and use for treatment decisions. *Int J Tuberc Lung Dis.* 2008 Jul;12(7):786-91. PMID: 18544205.
201. Van Rie A, **Madhi SA**, Heera JR, Meddows-Taylor S, Wendelboe AM, Anthony F, Violari A, Tiemessen CT. Gamma interferon production in response to Mycobacterium bovis BCG and Mycobacterium tuberculosis antigens in infants born to human immunodeficiency virus-infected mothers. *Clin Vaccine Immunol.* 2006 Feb;13(2):246-52. doi: 10.1128/CVI.13.2.246-252.2006. PMID: 16467333; PMCID: PMC1391928.
202. Cotton MF, Schaaf HS, Hesselning AC, **Madhi SA**. HIV and childhood tuberculosis: the way forward. *Int J Tuberc Lung Dis.* 2004 May;8(5):675-82. PMID: 15137551.
203. **Madhi SA**, Huebner RE, Doedens L, Aduc T, Wesley D, Cooper PA. HIV-1 co-infection in children hospitalised with tuberculosis in South Africa. *Int J Tuberc Lung Dis.* 2000 May;4(5):448-54. PMID: 10815739.
204. **Madhi SA**, Gray GE, Huebner RE, Sherman G, McKinnon D, Pettifor JM. Correlation between CD4+ lymphocyte counts, concurrent antigen skin test and tuberculin skin test reactivity in human immunodeficiency virus type 1-infected and -uninfected children with tuberculosis. *Pediatr Infect Dis J.* 1999 Sep;18(9):800-5. doi: 10.1097/00006454-199909000-00011. PMID: 10493341.

General Pneumonia

205. Mushunje PK, Dube FS, Olwagan C, Madhi S, Odland JØ, Ferrand RA, Nicol MP, Abotsi RE; BREATHE study team. Characterization of bacterial and viral pathogens in the respiratory tract of children with HIV-associated chronic lung disease: a case-control study. *BMC Infect Dis.* 2024 Jun 26;24(1):637. doi: 10.1186/s12879-024-09540-5. PMID: 38926682; PMCID: PMC11201860.
206. Gallagher KE, Awori JO, Knoll MD, Rhodes J, Higdon MM, Hammitt LL, Prospero C, Baggett HC, Brooks WA, Fancourt N, Feikin DR, Howie SRC, Kotloff KL, Tapia MD, Levine OS, **Madhi SA**, Murdoch DR, O'Brien KL, Thea DM, Baillie VL, Ebruke BE, Kamau A, Moore DP, Mwananyanda L, Olutunde EO, Seidenberg P, Sow SO, Thamthitawat S, Scott JAG; PERCH Study Group. Factors predicting mortality in hospitalised HIV-negative children with lower-chest-wall indrawing pneumonia and implications for management. *PLoS One.* 2024 Mar 11;19(3):e0297159. doi: 10.1371/journal.pone.0297159. PMID: 38466696; PMCID: PMC10927117.
207. Moosa F, du Plessis M, Weigand MR, Peng Y, Mogale D, de Gouveia L, Nunes MC, **Madhi SA**, Zar HJ, Reubenson G, Ismail A, Tondella ML, Cohen C, Walaza S, von Gottberg A, Wolter N. Genomic characterization of Bordetella pertussis in South Africa, 2015-2019. *Microb Genom.* 2023 Dec;9(12):001162. doi: 10.1099/mgen.0.001162. PMID: 38117675; PMCID: PMC10763497.
208. Izu A, Nunes MC, Solomon F, Baillie VL, Serafin N, Verwey C, Moore DP, Laubscher M, Ncube M, Olwagan C, Dangor Z, **Madhi SA**. All-cause and pathogen-specific lower respiratory tract infection hospital admissions in children younger than 5 years during the COVID-19 pandemic (2020-22) compared with the pre-pandemic period (2015-19) in South Africa: an observational study. *Lancet Infect Dis.* 2023 May 1:S1473-3099(23)00200-1. doi:

- 10.1016/S1473-3099(23)00200-1. Epub ahead of print. PMID: 37141913; PMCID: PMC10151031.
209. Hooli S, King C, McCollum ED, Colbourn T, Lufesi N, Mwansambo C, Gregory CJ, Thamthitiwat S, Cutland CL, **Madhi SA**, Nunes MC, Gessner BD, Hazir T, Mathew JL, Addo-Yobo E, Chisaka N, Hassan M, Hibberd PL, Jeena P, Lozano JM, MacLeod WB, Patel A, Thea DM, Nguyen NTV, Zaman SM, Ruvinsky RO, Lucero M, Kartasasmita CB, Turner C, Asghar R, Banajeh S, Iqbal I, Maulen-Radovan I, Mino-Leon G, Saha SK, Santosham M, Singhi S, Awasthi S, Bavdekar A, Chou M, Nymadawa P, Pape JW, Paranhos-Baccala G, Picot VS, Rakoto-Andrianarivelo M, Rouzier V, Russomando G, Sylla M, Vanhems P, Wang J, Basnet S, Strand TA, Neuman MI, Arroyo LM, Echavarria M, Bhatnagar S, Wadhwa N, Lodha R, Aneja S, Gentile A, Chadha M, Hirve S, O'Grady KF, Clara AW, Rees CA, Campbell H, Nair H, Falconer J, Williams LJ, Horne M, Qazi SA, Nisar YB; Pneumonia REsearch Partnership to Assess WHO REcommendations (PREPARE) study group. In-hospital mortality risk stratification in children aged under 5 years with pneumonia with or without pulse oximetry: A secondary analysis of the Pneumonia REsearch Partnership to Assess WHO REcommendations (PREPARE) dataset. *Int J Infect Dis.* 2023 Apr;129:240-250. doi: 10.1016/j.ijid.2023.02.005. Epub 2023 Feb 16. PMID: 36805325; PMCID: PMC10017350.
210. Martin H, Falconer J, Addo-Yobo E, Aneja S, Arroyo LM, Asghar R, Awasthi S, Banajeh S, Bari A, Basnet S, Bavdekar A, Bhandari N, Bhatnagar S, Bhutta ZA, Brooks A, Chadha M, Chisaka N, Chou M, Clara AW, Colbourn T, Cutland CL, D'Acremont V, Echavarria M, Gentile A, Gessner B, Gregory CJ, Hazir T, Hibberd PL, Hirve S, Hooli S, Iqbal I, Jeena P, Kartasasmita CB, King C, Libster R, Lodha R, Lozano JM, Lucero M, Lufesi N, MacLeod WB, **Madhi SA**, Mathew JL, Maulen- Radovan I, McCollum ED, Mino G, Mwansambo C, Neuman MI, Nguyen NTV, Nunes MC, Nymadawa P, O'Grady KF, Pape JW, Paranhos-Baccala G, Patel A, Picot VS, Rakoto- Andrianarivelo M, Rasmussen Z, Rouzier V, Russomando G, Ruvinsky RO, Sadruddin S, Saha SK, Santosham M, Singhi S, Soofi S, Strand TA, Sylla M, Thamthitiwat S, Thea DM, Turner C, Vanhems P, Wadhwa N, Wang J, Zaman SM, Campbell H, Nair H, Qazi SA, Nisar YB; World Health Organization Pneumonia Research Partnership to Assess WHO Recommendation (PREPARE) study group. Assembling a global database of child pneumonia studies to inform WHO pneumonia management algorithm: Methodology and applications. *J Glob Health.* 2022 Dec 29;12:04075. doi: 10.7189/jogh.12.04075. PMID: 36579417; PMCID: PMC9798037.
211. Park DE, Watson NL, Focht C, Feikin D, Hammit L, Brooks WA, Howie SRC, Kotloff KL, Levine OS, **Madhi SA**, Murdoch DR, O'Brien KL, Scott JAG, Thea DM, Amorninthapichet T, Awori J, Bunthi C, Ebruke B, Elhilali M, Higdon M, Hossain L, Jahan Y, Moore DP, Mulindwa J, Mwananyanda L, Naorat S, Prosperi C, Thamthitiwat S, Verwey C, Jablonski KA, Power MC, Young HA, Deloria Knoll M, McCollum ED. Digitally recorded and remotely classified lung auscultation compared with conventional stethoscope classifications among children aged 1-59 months enrolled in the Pneumonia Etiology Research for Child Health (PERCH) case-control study. *BMJ Open Respir Res.* 2022 May;9(1):e001144. doi: 10.1136/bmjresp-2021-001144. PMID: 35577452; PMCID: PMC9115042.
212. Rees CA, Colbourn T, Hooli S, King C, Lufesi N, McCollum ED, Mwansambo C, Cutland CL, **Madhi SA**, Nunes M, Matthew JL, Addo-Yobo E, Chisaka N, Hassan M, Hibberd PL, Jeena PM, Lozano JM, MacLeod WB, Patel A, Thea DM, Nguyen NTV, Kartasasmita CB, Lucero M, Awasthi S, Bavdekar A, Chou M, Nymadawa P, Pape JW, Paranhos-Baccala G, Picot VS, Rakoto-Andrianarivelo M, Rouzier V, Russomando G, Sylla M, Vanhems P, Wang J, Asghar R, Banajeh S, Iqbal I, Maulen-Radovan I, Mino-Leon G, Saha SK, Santosham M, Singhi S, Basnet S, Strand TA, Bhatnagar S, Wadhwa N, Lodha R, Aneja S, Clara AW, Campbell H, Nair H,

- Falconer J, Qazi SA, Nisar YB, Neuman MI; World Health Organization PREPARE study group. Derivation and validation of a novel risk assessment tool to identify children aged 2-59 months at risk of hospitalised pneumonia-related mortality in 20 countries. *BMJ Glob Health*. 2022 Apr;7(4):e008143. doi: 10.1136/bmjgh-2021-008143. PMID: 35428680; PMCID: PMC9014031.
213. Zar HJ, Moore DP, Andronikou S, Argent AC, Avenant T, Cohen C, Green RJ, Itzikowitz G, Jeena P, Masekela R, Nicol MP, Pillay A, Reubenson G, **Madhi SA**. Diagnosis and management of community-acquired pneumonia in children: South African Thoracic Society guidelines. *Afr J Thorac Crit Care Med*. 2020 Oct 13;26(3):10.7196/AJTCCM.2020.v26i3.104. doi: 10.7196/AJTCCM.2020.v26i3.104. PMID: 34471872; PMCID: PMC7433705. (Guidelines)
214. Baillie VL, Moore DP, Mathunjwa A, Park DE, Thea DM, Kwenda G, Mwananyanda L, **Madhi SA**. Epidemiology and Seasonality of Endemic Human Coronaviruses in South African and Zambian Children: A Case-Control Pneumonia Study. *Viruses*. 2021 Jul 31;13(8):1513. doi: 10.3390/v13081513. PMID: 34452378; PMCID: PMC8402793.
215. Moore DP, Baillie VL, Mudau A, Wadula J, Adams T, Mangera S, Verwey C, Sipambo N, Liberty A, Prospero C, Higdon MM, Haddix M, Hammitt LL, Feikin DR, O'Brien KL, Deloria Knoll M, Murdoch DR, Simões EAF, **Madhi SA**. The Etiology of Pneumonia in HIV-1-infected South African Children in the Era of Antiretroviral Treatment: Findings From the Pneumonia Etiology Research for Child Health (PERCH) Study. *Pediatr Infect Dis J*. 2021 Sep 1;40(9S):S69-S78. doi: 10.1097/INF.0000000000002651. PMID: 34448746; PMCID: PMC8448402.
216. Moore DP, Baillie VL, Mudau A, Wadula J, Adams T, Mangera S, Verwey C, Prospero C, Higdon MM, Haddix M, Hammitt LL, Feikin DR, O'Brien KL, Deloria Knoll M, Murdoch DR, Simões EAF, **Madhi SA**. The Etiology of Pneumonia in HIV- uninfected South African Children: Findings From the Pneumonia Etiology Research for Child Health (PERCH) Study. *Pediatr Infect Dis J*. 2021 Sep 1;40(9S):S59-S68. doi: 10.1097/INF.0000000000002650. PMID: 34448745; PMCID: PMC8448398.
217. Deloria Knoll M, Prospero C, Baggett HC, Brooks WA, Feikin DR, Hammitt LL, Howie SRC, Kotloff KL, **Madhi SA**, Murdoch DR, Scott JAG, Thea DM, O'Brien KL. Introduction to the Site-specific Etiologic Results From the Pneumonia Etiology Research for Child Health (PERCH) Study. *Pediatr Infect Dis J*. 2021 Sep 1;40(9S):S1-S6. doi: 10.1097/INF.0000000000002778. PMID: 34448739; PMCID: PMC8448396.
218. Ayeni OA, Walaza S, Tempia S, Groome M, Kahn K, **Madhi SA**, Cohen AL, Moyes J, Venter M, Pretorius M, Treurnicht F, Hellferscee O, von Gottberg A, Wolter N, Cohen C. Mortality in children aged <5 years with severe acute respiratory illness in a high HIV-prevalence urban and rural areas of South Africa, 2009-2013. *PLoS One*. 2021 Aug 12;16(8):e0255941. doi: 10.1371/journal.pone.0255941. PMID: 34383824; PMCID: PMC8360538.
219. Moore DP, **Madhi SA**. Of novel analytic approaches and impactful findings... and an opportunity to pose more questions. *Lancet Reg Health West Pac*. 2020 Sep 10;2:100018. doi: 10.1016/j.lanwpc.2020.100018. PMID: 34327374; PMCID: PMC8315651. (Invited commentary)
220. McCollum ED, Park DE, Watson NL, Fancourt NSS, Focht C, Baggett HC, Brooks WA, Howie SRC, Kotloff KL, Levine OS, **Madhi SA**, Murdoch DR, Scott JAG, Thea DM, Awori JO, Chipeta J, Chuananon S, DeLuca AN, Driscoll AJ, Ebruke BE, Elhilali M, Emmanouilidou D, Githua LP, Higdon MM, Hossain L, Jahan Y, Karron RA, Kyalo J, Moore DP, Mulindwa JM, Naorat S, Prospero C, Verwey C, West JE, Knoll MD, O'Brien KL, Feikin DR, Hammitt LL. Digital auscultation in PERCH: Associations with chest radiography and pneumonia mortality in children. *Pediatr Pulmonol*. 2020 Nov;55(11):3197-3208. doi: 10.1002/ppul.25046. Epub 2020 Sep 11. PMID: 32852888; PMCID: PMC7692889.

221. Ebruke BE, Deloria Knoll M, Haddix M, Zaman SMA, Prosperi C, Feikin DR, Hammitt LL, Levine OS, O'Brien KL, Murdoch DR, Brooks WA, Scott JAG, Kotloff KL, **Madhi SA**, Thea DM, Baillie VL, Chisti MJ, Dione M, Driscoll AJ, Fancourt N, Karron RA, Le TT, Mohamed S, Moore DP, Morpeth SC, Mwaba J, Mwansa J, Bin Shahid ASMS, Sow SO, Tapia MD, Antonio M, Howie SRC. The Etiology of Pneumonia From Analysis of Lung Aspirate and Pleural Fluid Samples: Findings From the Pneumonia Etiology Research for Child Health (PERCH) Study. *Clin Infect Dis*. 2021 Dec 6;73(11):e3788-e3796. doi: 10.1093/cid/ciaa1032. PMID: 32710751; PMCID: PMC8662778.
222. Mahomed N, van Ginneken B, Philipsen RHHM, Melendez J, Moore DP, Moodley H, Sewchuran T, Mathew D, **Madhi SA**. Computer-aided diagnosis for World Health Organization-defined chest radiograph primary-endpoint pneumonia in children. *Pediatr Radiol*. 2020 Apr;50(4):482-491. doi: 10.1007/s00247-019-04593-0. Epub 2020 Jan 13. PMID: 31930429.

Rotavirus and diarrheal diseases

223. Page NA, Netshikweta R, Tate JE, **Madhi SA**, Parashar UD, Groome MJ; South African Intussusception Surveillance Group. Microorganisms Detected in Intussusception Cases and Controls in Children <3 Years in South Africa From 2013 to 2017. *Open Forum Infect Dis*. 2023 Sep 4;10(9):ofad458. doi: 10.1093/ofid/ofad458. PMID: 37720699; PMCID: PMC10500044
224. Johnstone SL, Page NA, Groome MJ, **Madhi SA**, Mutevedzi PC, Thomas J. Identifying gaps in hand hygiene practice to support tailored target audience messaging in Soweto: A cross-sectional community survey. *S Afr J Infect Dis*. 2022 Mar 31;37(1):339. doi: 10.4102/sajid.v37i1.339. PMID: 35399561; PMCID: PMC8991282.
225. Kurokawa N, Robinson MK, Bernard C, Kawaguchi Y, Koujin Y, Koen A, **Madhi SA**, Polasek TM, McNeal M, Dargis M, Couture MM, Trépanier S, Forrest BD, Tsutsui N. Safety and immunogenicity of a plant-derived rotavirus-like particle vaccine in adults, toddlers and infants. *Vaccine*. 2021 Sep 15;39(39):5513-5523. doi: 10.1016/j.vaccine.2021.08.052. Epub 2021 Aug 25. PMID: 34454786.
226. Johnstone SL, Page NA, Thomas J, **Madhi SA**, Mutevedzi PC, Myburgh N, Herrera C, Groome MJ. Diarrhoeal diseases in Soweto, South Africa, 2020: a cross-sectional community survey. *BMC Public Health*. 2021 Jul 20;21(1):1431. doi: 10.1186/s12889-021-11470-9. PMID: 34284738; PMCID: PMC8293521.
227. Bessey TK, Parashar UD, Tate JE; South African Intussusception Surveillance Group, **Madhi SA**, Jiang B, Groome MJ. Cytokine profiles in children with acute intussusception in South Africa. *Cytokine*. 2021 Oct;146:155639. doi: 10.1016/j.cyto.2021.155639. Epub 2021 Jul 17. PMID: 34284276.
228. Cox S, Withers A, Arnold M, Chitnis M, de Vos C, Kirsten M, le Grange SM, Loveland J, Machaea S, Maharaj A, **Madhi SA**, Tate JE, Parashar UD, Groome MJ. Clinical presentation and management of childhood intussusception in South Africa. *Pediatr Surg Int*. 2021 Oct;37(10):1361-1370. doi: 10.1007/s00383-021-04946-7. Epub 2021 Jul 2. PMID: 34213589; PMCID: PMC8408053.
229. Groome MJ, Tate JE, Arnold M, Chitnis M, Cox S, de Vos C, Kirsten M, le Grange SM, Loveland J, Machaea S, Maharaj A, Andrews N, **Madhi SA**, Parashar UD. Evaluation of Intussusception After Oral Monovalent Rotavirus Vaccination in South Africa. *Clin Infect Dis*. 2020 Apr 10;70(8):1606-1612. doi: 10.1093/cid/ciz431. PMID: 31125061; PMCID: PMC7146001.

230. Groome MJ, Fairlie L, Morrison J, Fix A, Koen A, Masenya M, Jose L, **Madhi SA**, Page N, McNeal M, Dally L, Cho I, Power M, Flores J, Cryz S. Safety and immunogenicity of a parenteral trivalent P2-VP8 subunit rotavirus vaccine: a multisite, randomised, double-blind, placebo-controlled trial. *Lancet Infect Dis*. 2020 Jul;20(7):851-863. doi: 10.1016/S1473-3099(20)30001-3. Epub 2020 Apr 3. PMID: 32251641; PMCID: PMC7322558.

Cytomegalovirus

231. Pathirana J, Kwatra G, Maposa I, Groome MJ, **Madhi SA**. Effect of cytomegalovirus infection on humoral immune responses to select vaccines administered during infancy. *Vaccine*. 2021 Aug 9;39(34):4793-4799. doi: 10.1016/j.vaccine.2021.05.066. Epub 2021 Jul 16. PMID: 34275675.
232. Dorfman JR, Balla SR, Pathirana J, Groome MJ, **Madhi SA**, Moore PL. In Utero Human Cytomegalovirus Infection Is Associated With Increased Levels of Putatively Protective Maternal Antibodies in Nonprimary Infection: Evidence for Boosting but Not Protection. *Clin Infect Dis*. 2021 Aug 16;73(4):e981-e987. doi: 10.1093/cid/ciab099. PMID: 33560335.
233. Pathirana J, Texeira L, Munian H, Nakwa F, Mayet I, Maposa I, Groome MJ, Boppana S, **Madhi SA**. Neurological and growth outcomes in South African children with congenital cytomegalovirus: A cohort study. *PLoS One*. 2020 Sep 17;15(9):e0238102. doi: 10.1371/journal.pone.0238102. PMID: 32941484; PMCID: PMC7498063.

Paediatric HIV studies (excluding vaccine specific studies delineated elsewhere)

234. Johnson M, Lazarus SK, Bennett AE, Tovar-Salazar A, Robertson CE, Kofonow JM, Li S, McCollister B, Nunes MC, **Madhi SA**, Frank DN, Weinberg A. Gut Microbiota and Other Factors Associated With Increased Regulatory T Cells in Hiv-exposed Uninfected Infants. *Res Sq [Preprint]*. 2024 Feb 2:rs.3.rs-3909424. doi: 10.21203/rs.3.rs-3909424/v1. PMID: 38352510; PMCID: PMC10862973.
235. Jackson CL, Frank DN, Robertson CE, Ir D, Kofonow JM, Montlha MP, Mutsaerts EAML, Nunes MC, **Madhi SA**, Ghosh D, Weinberg A. Evolution of the Gut Microbiome in HIV-Exposed Uninfected and Unexposed Infants during the First Year of Life. *mBio*. 2022 Oct 26;13(5):e0122922. doi: 10.1128/mbio.01229-22. Epub 2022 Sep 8. PMID: 36073815; PMCID: PMC9600264.

Other vaccine related studies not covered elsewhere (including measles, pertussis and *Haemophilus influenzae type b*)

236. Memish ZA, Zumla A, Madhi SA, Al Rabeeah AA. Novel funding pledges for advancing polio eradication efforts. *Lancet*. 2024 Jun 29;403(10446):2781-2782. doi: 10.1016/S0140-6736(24)01026-2. PMID: 38944519.
237. Nunes MC, Tamblyn A, Jose L, Ntsimane M, Lerotholi N, Machimana C, Taylor A, Laher F, **Madhi SA**. Immunogenicity of tetanus, diphtheria and acellular pertussis vaccination among pregnant women living with and without HIV. *AIDS*. 2023 Sep 29. doi: 10.1097/QAD.0000000000003731. Epub ahead of print. PMID: 37773052.

238. Butler-Laporte G, Auckland K, Noor Z, Kabir M, Alam M, Carstensen T, Wojcik GL, Chong AY, Pomilla C, Noble JA, McDevitt SL, Smits G, Wareing S, van der Klis FR, Jeffery K, Kirkpatrick BD, Sirima S, **Madhi SA**, Elliott A, Richards JB, Hill AV, Duggal P; PROVIDE authors; Cryptosporidiosis Birth Cohort authors; Sandhu MS, Haque R, Petri WA, Mentzer AJ. Targeting hepatitis B vaccine escape using immunogenetics in Bangladeshi infants. medRxiv [Preprint]. 2023 Jun 29:2023.06.26.23291885. doi: 10.1101/2023.06.26.23291885. PMID: 37425840; PMCID: PMC10327284.
239. Cable J, Rappuoli R, Klemm EJ, Kang G, Mutreja A, Wright GJ, Pizza M, Castro SA, Hoffmann JP, Alter G, Carfi A, Pollard AJ, Krammer F, Gupta RK, Wagner CE, Machado V, Modjarrad K, Corey L, B Gilbert P, Dougan G, Lurie N, Bjorkman PJ, Chiu C, Nemes E, Gordon SB, Steer AC, Rudel T, Blish CA, Sandberg JT, Brennan K, Klugman KP, Stuart LM, **Madhi SA**, Karp CL. Innovative vaccine approaches-a Keystone Symposia report. *Ann N Y Acad Sci*. 2022 Jan 14. doi: 10.1111/nyas.14739. Epub ahead of print. PMID: 35029310. (Meeting report)
240. Koen A, **Madhi SA**, Lyabis O, Vidor E, Cowper B, Marais T, Patel D, Vigne C. Immunogenicity and safety of a hexavalent pediatric vaccine in HIV-exposed infected and uninfected infants in Republic of South Africa. *Hum Vaccin Immunother*. 2021 Jun 3;17(6):1770-1778. doi: 10.1080/21645515.2020.1839289. Epub 2020 Dec 16. PMID: 33326316; PMCID: PMC8115757
241. Mutsaerts EAML, Nunes MC, Bhikha S, Ikulinda BT, Jose L, Koen A, Moultrie A, Grobbee DE, Klipstein-Grobusch K, Weinberg A, **Madhi SA**. Short-term immunogenicity and safety of hepatitis-A and varicella vaccines in HIV-exposed uninfected and HIV-unexposed South African children. *Vaccine*. 2020 May 8;38(22):3862-3868. doi: 10.1016/j.vaccine.2020.03.045. Epub 2020 Apr 16. PMID: 32307279.

Neonatal and Childhood diseases and stillbirths

242. Leulseged H, Bethencourt C, Igunza KA, Akelo V, Onyango D, Omoro R, Ogbuanu IU, Ameh S, Moseray A, Kowuor D, Bassey IA, El Arifeen S, Gurley ES, Hossain MZ, Rahman A, Alam M, Assefa N, Madrid L, Alemu A, Abdullahi YY, Kotloff KL, Sow SO, Tapia MD, Kourouma N, Sissoko S, Bassat Q, Varo R, Mandomando I, Carrilho C, Rakislova N, Fernandes F, Madhi S, Dangor Z, Mahtab S, Hale M, Baillie V, du Toit J, Madewell ZJ, Blau DM, Martines RB, Mutevedzi PC, Breiman RF, Whitney CG, Rees CA; Child Health and Mortality Prevention Surveillance (CHAMPS) network. Clinicopathological discrepancies in the diagnoses of childhood causes of death in the CHAMPS network: An analysis of antemortem diagnostic inaccuracies. *BMJ Paediatr Open*. 2024 Jul 20;8(1):e002654. doi: 10.1136/bmjpo-2024-002654. PMID: 39032935.
243. Garcia Gomez E, Igunza KA, Madewell ZJ, Akelo V, Onyango D, El Arifeen S, Gurley ES, Hossain MZ, Chowdhury MAI, Islam KM, Assefa N, Scott JAG, Madrid L, Tilahun Y, Orlie S, Kotloff KL, Tapia MD, Keita AM, Mehta A, Magaço A, Torres-Fernandez D, Nhacolo A, Bassat Q, Mandomando I, Ogbuanu I, Cain CJ, Luke R, Kamara SIB, Legesse H, **Madhi SA**, Dangor Z, Mahtab S, Wise A, Adam Y, Whitney CG, Mutevedzi PC, Blau DM, Breiman RF, Tippet Barr BA, Rees CA; Child Health and Mortality Prevention Surveillance Network. Identifying delays in healthcare seeking and provision: The Three Delays-in-Healthcare and mortality among

- infants and children aged 1-59 months. *PLOS Glob Public Health*. 2024 Feb 8;4(2):e0002494. doi: 10.1371/journal.pgph.0002494. PMID: 38329969; PMCID: PMC10852234.
244. Mabena FC, Olwagen CP, Phosa M, Ngwenya IK, Van Der Merwe L, Khan A, Mwamba TM, Mpembe R, Magobo RE, Govender NP, Velaphi SC, **Madhi SA**. Bacterial and Candida Colonization of Neonates in a Regional Hospital in South Africa. *Pediatr Infect Dis J*. 2024 Mar 1;43(3):263-270. doi: 10.1097/INF.0000000000004177. Epub 2023 Nov 20. PMID: 38381956.
245. Ogbuanu IU, Otieno K, Varo R, Sow SO, Ojulong J, Duduyemi B, Kowuor D, Cain CJ, Rogena EA, Onyango D, Akelo V, Tippett Barr BA, terKuile F, Kotloff KL, Tapia MD, Keita AM, Juma J, Assefa N, Assegid N, Acham Y, Madrid L, Scott JAG, Arifeen SE, Gurley ES, Mahtab S, Dangor Z, Wadula J, Dutoit J, **Madhi SA**, Mandomando I, Torres-Fernandez D, Kincardett M, Mabunda R, Mutevedzi PC, Madewell ZJ, Blau DM, Whitney CG, Samuels AM, Bassat Q; CHAMPS consortium. Burden of child mortality from malaria in high endemic areas: Results from the CHAMPS network using minimally invasive tissue sampling. *J Infect*. 2024 Mar;88(3):106107. doi: 10.1016/j.jinf.2024.01.006. Epub 2024 Jan 28. PMID: 38290664.
246. Mahtab S, Blau DM, Madewell ZJ, Ogbuanu I, Ojulong J, Lako S, Legesse H, Bangura JS, Bassat Q, Mandomando I, Xerinda E, Fernandes F, Varo R, Sow SO, Kotloff KL, Tapia MD, Keita AM, Sidibe D, Onyango D, Akelo V, Gethi D, Verani JR, Revathi G, Scott JAG, Assefa N, Madrid L, Bizuayehu H, Tirfe TT, El Arifeen S, Gurley ES, Islam KM, Alam M, Zahid Hossain M, Dangor Z, Baillie VL, Hale M, Mutevedzi PC, Breiman RF, Whitney CG, **Madhi SA**; CHAMPS Consortium. Post-mortem investigation of deaths due to pneumonia in children aged 1-59 months in sub-Saharan Africa and South Asia from 2016 to 2022: an observational study. *Lancet Child Adolesc Health*. 2024 Mar;8(3):201-213. doi: 10.1016/S2352-4642(23)00328-0. Epub 2024 Jan 25. PMID: 38281495; PMCID: PMC10864189.
247. Verani JR, Blau DM, Gurley ES, Akelo V, Assefa N, Baillie VL, Bassat Q, Berhane M, Bunn J, Cossa ACA, El Arifeen S, Gunturu R, Hale M, Igunza A, Keita AM, Kenneh S, Kotloff KL, Kowuor D, Mabunda R, Madewell ZJ, **Madhi SA**, Madrid L, Mahtab S, Miguel J, Murila FV, Ogbuanu IU, Ojulong J, Onyango D, Oundo JO, Scott JAG, Sow S, Tapia M, Traore CB, Velaphi S, Whitney CG, Mandomando I, Breiman RF. Child deaths caused by *Klebsiella pneumoniae* in sub-Saharan Africa and south Asia: a secondary analysis of Child Health and Mortality Prevention Surveillance (CHAMPS) data. *Lancet Microbe*. 2024 Feb;5(2):e131-e141. doi: 10.1016/S2666-5247(23)00290-2. Epub 2024 Jan 11. PMID: 38218193; PMCID: PMC10849973.
248. Gupta PM, Madewell ZJ, Gannon BM, Grahn M, Akelo V, Onyango D, Mahtab S, **Madhi SA**, Giri J, Blau DM, Ramakrishnan U, Stein AD, Whitney CG, Young MF, Tanumihardjo SA, Suchdev PS. Hepatic Vitamin A Concentrations and Association with Infectious Causes of Child Death. *J Pediatr*. 2024 Feb;265:113816. doi: 10.1016/j.jpeds.2023.113816. Epub 2023 Nov 4. PMID: 37931699; PMCID: PMC10869935.
249. Baillie VL, **Madhi SA**, Ahyong V, Olwagen CP. Metagenomic sequencing of post-mortem tissue samples for the identification of pathogens associated with neonatal deaths. *Nat Commun*. 2023 Sep 4;14(1):5373. doi: 10.1038/s41467-023-40958-8. PMID: 37666833; PMCID: PMC10477270.
- 11;10(9):ofad356. doi: 10.1093/ofid/ofad356. PMID: 37674633; PMCID: PMC10478157.
250. Rees CA, Igunza KA, Madewell ZJ, Akelo V, Onyango D, El Arifeen S, Gurley ES, Hossain MZ, Rahman A, Alam M, Scott JAG, Assefa N, Madrid L, Belachew A, Leulseged H, Kotloff KL, Sow SO, Tapia MD, Keita AM, Sidibe D, Siteo A, Varo R, Ajanovic S, Bassat Q, Mandomando I, Tippett Barr BA, Ogbuanu I, Cain CJ, Basse IA, Luke R, Gassama K, **Madhi S**, Dangor Z, Mahtab S, Velaphi S, du Toit J, Mutevedzi PC, Blau DM, Breiman RF, Whitney CG; Child Health and Mortality Prevention Surveillance Network. Provider adherence to clinical care

recommendations for infants and children who died in seven low- and middle- income countries in the Child Health and Mortality Prevention Surveillance (CHAMPS) network. *EClinicalMedicine*. 2023 Aug 31;63:102198. doi: 10.1016/j.eclinm.2023.102198. PMID: 37692079; PMCID: PMC10484959.

251. Bassat Q, Blau DM, Ogbuanu IU, Samura S, Kaluma E, Bassey IA, Sow S, Keita AM, Tapia MD, Mehta A, Kotloff KL, Rahman A, Islam KM, Alam M, El Arifeen S, Gurley ES, Baillie VL, Mutevedzi PC, Mahtab S, Thwala BN, Tippett Barr BA, Onyango D, Akelo V, Rogena E, Onyango P, Omore R, Mandomando I, Ajanovic S, Varo R, Siteo A, Duran-Frigola M, Assefa N, Scott JAG, Madrid L, Tesfaye T, Dessie Y, Madewell ZJ, Breiman RF, Whitney CG, **Madhi SA**; Child Health and Mortality Prevention Surveillance (CHAMPS) Network. Causes of Death Among Infants and Children in the Child Health and Mortality Prevention Surveillance (CHAMPS) Network. *JAMA Netw Open*. 2023 Jul 3;6(7):e2322494. doi: 10.1001/jamanetworkopen.2023.22494. PMID: 37494044.
252. Madrid L, Vyas KJ, Kancherla V, Leulseged H, Suchdev PS, Bassat Q, Sow SO, El Arifeen S, **Madhi SA**, Onyango D, Ogbuanu I, Scott JAG, Blau D, Mandomando I, Keita AM, Gurley ES, Mahtab S, Akelo V, Sannoh S, Tilahun Y, Varo R, Onwuchekwa U, Rahman A, Adam Y, Omore R, Lako S, Xerinda E, Islam KM, Wise A, Tippet-Barr BA, Kaluma E, Ajanovic S, Kotloff KL, Hossain MZ, Mutevedzi PC, Tapia MD, Rogena E, Moses F, Whitney CG, Assefa N; CHAMPS Consortium. Neural tube defects as a cause of death among stillbirths, infants, and children younger than 5 years in sub-Saharan Africa and southeast Asia: an analysis of the CHAMPS network. *Lancet Glob Health*. 2023 Jul;11(7):e1041-e1052. doi: 10.1016/S2214-109X(23)00191-2. Epub 2023 Jun 1. PMID: 37271162; PMCID: PMC10282076.
253. Mahtab S, **Madhi SA**, Baillie VL, Els T, Thwala BN, Onyango D, Tippet-Barr BA, Akelo V, Igunza KA, Omore R, Arifeen SE, Gurley ES, Alam M, Chowdhury AI, Rahman A, Bassat Q, Mandomando I, Ajanovic S, Siteo A, Varo R, Sow SO, Kotloff KL, Badji H, Tapia MD, Traore CB, Ogbuanu IU, Bunn J, Luke R, Sannoh S, Swarray-Deen A, Assefa N, Scott JAG, Madrid L, Marami D, Fentaw S, Diaz MH, Martines RB, Breiman RF, Madewell ZJ, Blau DM, Whitney CG; CHAMPS Consortium. Causes of death identified in neonates enrolled through Child Health and Mortality Prevention Surveillance (CHAMPS), December 2016 -December 2021. *PLOS Glob Public Health*. 2023 Mar 20;3(3):e0001612. doi: 10.1371/journal.pgph.0001612. PMID: 36963040; PMCID: PMC10027211.
254. Madewell ZJ, Whitney CG, Velaphi S, Mutevedzi PC, Mahtab S, **Madhi SA**, Fritz A, Swaray-Deen A, Sesay T, Ogbuanu IU, Mannah MT, Xerinda EG, Siteo A, Mandomando I, Bassat Q, Ajanovic S, Tapia MD, Sow SO, Mehta A, Kotloff KL, Keita AM, Tippett Barr BA, Onyango D, Oele E, Igunza KA, Agaya J, Akelo V, Scott JAG, Madrid L, Kelil YE, Dufera T, Assefa N, Gurley ES, El Arifeen S, Spotts Whitney EA, Seib K, Rees CA, Blau DM; Child Health and Mortality Prevention Surveillance Network. Prioritizing Health Care Strategies to Reduce Childhood Mortality. *JAMA Netw Open*. 2022 Oct 3;5(10):e2237689. doi: 10.1001/jamanetworkopen.2022.37689. PMID: 36269354; PMCID: PMC9587481.
255. Quincer E, Philipsborn R, Morof D, Salzberg NT, Vitorino P, Ajanovic S, Onyango D, Ogbuanu I, Assefa N, Sow SO, Mutevedzi PC, El Arifeen S, Tippet Barr BA, Scott JAG, Mandomando I, Kotloff KL, Jambai A, Akelo V, Cain CJ, Chowdhury AI, Gure T, Igunza KA, Islam F, Keita AM, Madrid L, Mahtab S, Mehta A, Mitei PK, Ntuli C, Ojulong J, Rahman A, Samura S, Sidibe D, Thwala BN, Varo R, **Madhi SA**, Bassat Q, Gurley ES, Blau DM, Whitney CG. Insights on the differentiation of stillbirths and early neonatal deaths: A study from the Child Health and Mortality Prevention Surveillance (CHAMPS) network. *PLoS One*. 2022 Jul 21;17(7):e0271662. doi: 10.1371/journal.pone.0271662. PMID: 35862419; PMCID: PMC9302850.

256. Mogire RM, Muriuki JM, Morovat A, Mentzer AJ, Webb EL, Kimita W, Ndungu FM, Macharia AW, Cutland CL, Sirima SB, Diarra A, Tiono AB, Lule SA, **Madhi SA**, Prentice AM, Bejon P, Pettifor JM, Elliott AM, Adeyemo A, Williams TN, Atkinson SH. Vitamin D Deficiency and Its Association with Iron Deficiency in African Children. *Nutrients*. 2022 Mar 25;14(7):1372. doi: 10.3390/nu14071372. PMID: 35405984; PMCID: PMC9002534.
257. Car KP, Nakwa F, Solomon F, Velaphi SC, Tann CJ, Izu A, Lala SG, **Madhi SA**, Dangor Z. The association between early-onset sepsis and neonatal encephalopathy. *J Perinatol*. 2022 Jan 10. doi: 10.1038/s41372-021-01290-5. Epub ahead of print. PMID: 35001084.
258. Mangeni NS, Solomon F, Velaphi S, Izu A, **Madhi SA**, Dangor Z, Lala SG. Sepsis in previously healthy neonates discharged home after delivery in Soweto, South Africa. *S Afr Med J*. 2021 Apr 30;111(5):432-436. doi: 10.7196/SAMJ.2021.v111i5.15181. PMID: 34852884.
259. Breiman RF, Blau DM, Mutevedzi PC, Akelo V, Mandomando I, Ogbuanu IU, Sow SO, Madrid L, El Arifeen S, Garel M, Thwala NB, Onyango D, Siteo A, Bassey IA, Keita AM, Alemu A, Alam M, Mahtab S, Gethi D, Varo R, Ojulong J, Samura S, Mehta A, Ibrahim AM, Rahman A, Vitorino P, Baillie VL, Agaya J, Tapia MD, Assefa N, Chowdhury AI, Scott JAG, Gurley ES, Kotloff KL, Jambai A, Bassat Q, Tippet-Barr BA, **Madhi SA**, Whitney CG; CHAMPS Consortium. Postmortem investigations and identification of multiple causes of child deaths: An analysis of findings from the Child Health and Mortality Prevention Surveillance (CHAMPS) network. *PLoS Med*. 2021 Sep 30;18(9):e1003814. doi: 10.1371/journal.pmed.1003814. PMID: 34591862; PMCID: PMC8516282.
260. Mogire RM, Morovat A, Muriuki JM, Mentzer AJ, Webb EL, Kimita W, Ndungu FM, Macharia AW, Cutland CL, Sirima SB, Diarra A, Tiono AB, Lule SA, **Madhi SA**, Sandhu MS, Prentice AM, Bejon P, Pettifor JM, Elliott AM, Adeyemo A, Williams TN, Atkinson SH. Prevalence and predictors of vitamin D deficiency in young African children. *BMC Med*. 2021 May 20;19(1):115. doi: 10.1186/s12916-021-01985-8. PMID: 34011341; PMCID: PMC8136043.
261. Muriuki JM, Mentzer AJ, Mitchell R, Webb EL, Etyang AO, Kyobutungi C, Morovat A, Kimita W, Ndungu FM, Macharia AW, Ngetsu CJ, Makale J, Lule SA, Musani SK, Raffield LM, Cutland CL, Sirima SB, Diarra A, Tiono AB, Fried M, Gwamaka M, Adu-Afarwuah S, Wirth JP, Wegmüller R, **Madhi SA**, Snow RW, Hill AVS, Rockett KA, Sandhu MS, Kwiatkowski DP, Prentice AM, Byrd KA, Ndjebayi A, Stewart CP, Engle-Stone R, Green TJ, Karakochuk CD, Suchdev PS, Bejon P, Duffy PE, Davey Smith G, Elliott AM, Williams TN, Atkinson SH. Malaria is a cause of iron deficiency in African children. *Nat Med*. 2021 Apr;27(4):653-658. doi: 10.1038/s41591-021-01238-4. Epub 2021 Feb 22. PMID: 33619371; PMCID: PMC7610676.
262. Naidu G, Izu A, Poyiadjis S, MacKinnon D, Rowe B, **Madhi SA**. High Burden of Serious Bacterial Infections in African Children Treated for Cancer. *Pediatr Infect Dis J*. 2020 Oct;39(10):943-948. doi: 10.1097/INF.0000000000002758. PMID: 32453195.
263. Taylor AW, Blau DM, Bassat Q, Onyango D, Kotloff KL, Arifeen SE, Mandomando I, Chawana R, Baillie VL, Akelo V, Tapia MD, Salzberg NT, Keita AM, Morris T, Nair S, Assefa N, Seale AC, Scott JAG, Kaiser R, Jambai A, Barr BAT, Gurley ES, Ordi J, Zaki SR, Sow SO, Islam F, Rahman A, Dowell SF, Koplan JP, Raghunathan PL, **Madhi SA**, Breiman RF; CHAMPS Consortium. Initial findings from a novel population-based child mortality surveillance approach: a descriptive study. *Lancet Glob Health*. 2020 Jul;8(7):e909-e919. doi: 10.1016/S2214-109X(20)30205-9. PMID: 32562647; PMCID: PMC7303945 (**Note joint senior author**)
264. Muriuki JM, Mentzer AJ, Webb EL, Morovat A, Kimita W, Ndungu FM, Macharia AW, Crane RJ, Berkley JA, Lule SA, Cutland CL, Sirima SB, Diarra A, Tiono AB, Bejon P, **Madhi SA**, Hill AVS, Prentice AM, Suchdev PS, Elliott AM, Williams TN, Atkinson SH. Estimating the burden of iron deficiency among African children. *BMC Med*. 2020 Feb 27;18(1):31. doi: 10.1186/s12916-020-1502-7. PMID: 32102669; PMCID: PMC7045745.

General articles on vaccines

265. Mentzer AJ, Dilthey AT, Pollard M, Gurdasani D, Karakoc E, Carstensen T, Muhwezi A, Cutland CL, Diarra A, da Silva Antunes R, Paul S, Smits G, Wareing S, Kim H, Pomilla C, Chong AY, Brandt DYC, Nielsen R, Neaves S, Timpson N, Crinklaw A, Lindestam Arlehamn CS, Rautanen A, Kizito D, Parks T, Auckland K, Elliott KE, Mills T, Ewer K, Edwards N, Fatumo S, Webb E, Peacock S, Jeffery K, van der Klis FRM, Kaleebu P, Vijayanand P, Peters B, Sette A, Cereb N, Sirima S, **Madhi SA**, Elliott AM, McVean G, Hill AVS, Sandhu MS. High-resolution African HLA resource uncovers HLA-DRB1 expression effects underlying vaccine response. *Nat Med*. 2024 May;30(5):1384-1394. doi: 10.1038/s41591-024-02944-5. Epub 2024 May 13. PMID: 38740997; PMCID: PMC11108778.
266. Hausdorff WP, **Madhi SA**, Kang G, Kaboré L, Tufet Bayona M, Giersing BK. Facilitating the development of urgently required combination vaccines. *Lancet Glob Health*. 2024 Jun;12(6):e1059-e1067. doi: 10.1016/S2214-109X(24)00092-5. Epub 2024 Apr 15. Erratum in: *Lancet Glob Health*. 2024 Apr 25:S2214-109X(24)00184-0. doi: 10.1016/S2214-109X(24)00184-0. PMID: 38636529; PMCID: PMC11099297.
267. Berrueta M, Ciapponi A, Bardach A, Cairoli FR, Castellano FJ, Xiong X, Stergachis A, Zaraa S, Meulen AS, Buekens P; Scoping Review Collaboration Group. Maternal and neonatal data collection systems in low- and middle-income countries for maternal vaccines active safety surveillance systems: A scoping review. *BMC Pregnancy Childbirth*. 2021 Mar 17;21(1):217. doi: 10.1186/s12884-021-03686-9. PMID: 33731029; PMCID: PMC7968860. **[Part of Group Authorship]**
268. Panero MS, Khuri-Bulos N, Biscayart C, Bonvehí P, Hayajneh W, **Madhi SA**. The role of National Immunization Technical Advisory Groups (NITAG) in strengthening health system governance: Lessons from three middle-income countries-Argentina, Jordan, and South Africa (2017-2018). *Vaccine*. 2020 Oct 21;38(45):7118-7128. doi: 10.1016/j.vaccine.2020.08.069. Epub 2020 Sep 16. PMID: 32950303.
269. Abu-Raya B, Maertens K, Edwards KM, Omer SB, Englund JA, Flanagan KL, Snape MD, Amirthalingam G, Leuridan E, Damme PV, Papaevangelou V, Launay O, Dagan R, Campins M, Cavaliere AF, Frusca T, Guidi S, O'Ryan M, Heininger U, Tan T, Alsuwaidi AR, Safadi MA, Vilca LM, Wanlapakorn N, **Madhi SA**, Giles ML, Prymula R, Ladhani S, Martínón-Torres F, Tan L, Michelin L, Scambia G, Principi N, Esposito S. Global Perspectives on Immunization During Pregnancy and Priorities for Future Research and Development: An International Consensus Statement. *Front Immunol*. 2020 Jun 24;11:1282. doi: 10.3389/fimmu.2020.01282. PMID: 32670282; PMCID: PMC7326941.

Antimicrobial Resistance

270. Khan S, **Madhi SA**, OIWAGEN C. Structure-based identification of novel inhibitors targeting the enoyl-ACP reductase enzyme of *Acinetobacter baumannii*. *Sci Rep*. 2023 Dec 4;13(1):21331. doi: 10.1038/s41598-023-48696-z. PMID: 38044353; PMCID: PMC10694131.
271. Dangor Z, Benson N, Berkley JA, Bielicki J, Bijsma MW, Broad J, Buurman ET, Cross A, Duffy EM, Holt KE, Iroh Tam PY, Jit M, Karampatsas K, Katwere M, Kwatra G, Laxminarayan R, Le Doare K, Mboizi R, Micoli F, Moore CE, Nakabembe E, Naylor NR, O'Brien S, OIWAGEN C, Reddy D, Rodrigues C, Rosen DA, Sadarangani M, Srikantiah P, Tennant SM, Hasso-Agopsowicz M, **Madhi SA**. Vaccine value profile for *Klebsiella pneumoniae*. *Vaccine*. 2024

Mar 18:S0264-410X(24)00248-2. doi: 10.1016/j.vaccine.2024.02.072. Epub ahead of print. PMID: 38503661.

272. Khan S, **Madhi SA**, Olwage C. *In-silico identification* of potential inhibitors against FabI protein in *Klebsiella pneumoniae*. *J Biomol Struct Dyn*. 2023 Apr 27:1-12. doi: 10.1080/07391102.2023.2200571. Epub ahead of print. PMID: 37105229.

Miscellaneous

273. Myburgh N, Qwabi T, Shivambo L, Ntsie L, Sokani A, Maixenchs M, Choge I, Mahtab S, Dangor Z, Madhi S. Factors affecting antenatal care attendance in Soweto, Johannesburg: The three-delay model. *Afr J Prim Health Care Fam Med*. 2024 Jun 14;16(1):e1-e9. doi: 10.4102/phcfm.v16i1.4333. PMID: 38949438; PMCID: PMC11220068. Schuind AE, Rees H, Schiller J, Mugo N, Dull P, Barnabas R, Clifford GM, Liu G, Madhi SA, Morse RB, Moscicki AB, Palefsky JM, Plotkin S, Sierra MS, Slifka MK, Vorsters A, Kreimer AR, Didierlaurent AM. State-of-the-Science of human papillomavirus vaccination in women with human immunodeficiency Virus: Summary of a scientific workshop. *Prev Med Rep*. 2023 Jul 19;35:102331. doi: 10.1016/j.pmedr.2023.102331. PMID: 37576844; PMCID: PMC10413150.
274. Breiman RF, Demetriou G, Naidu G, Papathanasopoulos MA, Ruff P, Madhi SA. Shifting the center of gravity for addressing the rising cancer disease burden in Africa: A rationale for African-based integrative infectious diseases and oncology research. *PLOS Glob Public Health*. 2023 May 31;3(5):e0001970. doi: 10.1371/journal.pgph.0001970. PMID: 37256858; PMCID: PMC10231805.
275. Adedini SA, Thaele D, Sello M, Mutevedzi PC, Hywinya C, Ngwenya N, Myburgh N, Madhi SA. Approaches, achievements, challenges, and lessons learned in setting up an urban-based Health and Demographic Surveillance System in South Africa. *Glob Health Action*. 2021 Jan 1;14(1):1874138. doi: 10.1080/16549716.2021.1874138. PMID: 33530879; PMCID: PMC8018403.

CHAPTERS IN BOOKS

1. Child Health for All: a Manual for Southern Africa. Westwood T, Saloojee H, Shung-King M, (ed). **Madhi SA**, Saloojee H. Immunisation. Pg 281-294. Cape Town: Oxford University Press, 2021
2. The Continuous Textbook of Women's Medicine Series – Obstetrics Module. Vol 17. Chapter: Respiratory Syncytial Virus. Dangor Z, **Madhi SA**, Glob. libr. women's med., ISSN: 1756-2228; DOI 10.3843/GLOWM.420433. 2023.
3. Mutsaerts, Eleonora, and Shabir A. Madhi, 'Immunization', in Robert Davidson, and others (eds), *Oxford Handbook of Tropical Medicine 5e*, 5 edn, Oxford Medical Handbooks (Oxford, 2022; online edn, Oxford Academic, 1 Oct. 2021), <https://doi.org/10.1093/med/9780198810858.003.0021>.