

## GERM-SA Publications 2003 – 2016 GERMS-RELATED PUBLICATIONS

### Peer-reviewed publications

1. von Gottberg A, Ludewick H, Bamber S, Govind C, Sturm AW, Klugman KP. Emergence of fluoroquinolone-resistant *Streptococcus pneumoniae* in a South African child in a tuberculosis treatment facility. *Pediatr Infect Dis J* 2003; 22:1020-1021.
2. Helms M, S. Ethelberg, K. Mølbak and the DT104 study group. A Global Survey of Multidrug-resistant *Salmonella* Typhimurium, with Particular Reference to DT104, 1992-2001. *Emerg Infect Dis* 2005;11:859-67.
3. von Gottberg A, de Gouveia L, Madhi SA, du Plessis M, Quan V, Soma K, Huebner R, Flannery B, Schuchat A, Klugman KP, and the Group for Enteric, Respiratory and Meningeal disease Surveillance in South Africa (GERMS-SA). Impact of conjugate *Haemophilus influenzae* type b vaccine introduction in South Africa. *Bulletin of WHO* 2006;84:811-818.
4. Wadula J, von Gottberg A, Kilner D, de Jong G, Cohen C, Khoosal M, Keddy K, Crewe-Brown H. Nosocomial outbreak of extended-spectrum  $\beta$ -lactamase-producing *Salmonella* Isangi in paediatric wards. *Paed Infect Dis J* 2006;25:843-844
5. McCarthy KM, Morgan J, Wannemuehler KA, Mirza SA, Gould SM, Mhlongo N, Moeng P, Maloba BR, Crewe-Brown HH, Brandt ME and Hajjeh RA for the Gauteng Cryptococcal Surveillance Initiative Group. Population-based surveillance for cryptococcosis in an antiretroviral-naïve South African province with high HIV seroprevalence. *AIDS* 2006; 20:2199-2206.
6. Morgan J, McCarthy KM, Gould S, Fan K, Arthington-Skaggs B, Iqbal N, Stamey K, Hajjeh RA and Brandt ME for the Gauteng Cryptococcal Surveillance Initiative Group. *Cryptococcus gattii* infection: characteristics and epidemiology of cases identified in a South African province with high HIV seroprevalence, 2002-2004. *Clin Infect Dis* 2006; 43:1077-80.
7. Coulson G, von Gottberg A, du Plessis M, Smith AM, de Gouveia L, Klugman KP, for the Group for Enteric, Respiratory and Meningeal disease Surveillance in South Africa (GERMS-SA). Meningococcal disease in South Africa, 1999-2002. *Emerg Infect Dis* 2007;13(2):273-281.
8. Keddy KH, Nadan S, Govend C, Sturm AW for GERMS-SA. Evidence for a clonally different origin of the two cholera epidemics of 2001-2002 and 1980-1987 in South Africa. *J Med Microbiol* 2007;56(12):1644-50.
9. Smith AM, Gouws A-M., Hoyland G, Sooka A, Keddy KH, for the Group for Enteric, Respiratory and Meningeal disease Surveillance in South Africa (GERMS-SA). Outbreaks of food-borne disease: A common occurrence but rarely reported. *S Afr Med J* 2007;97(12):1272.
10. R Wollin on the behalf of the Enترنت participants. A study of invasiveness of different *Salmonella* serovars based on analysis of the Enترنت database. *Euro Surveill* 2007;12(9):E070927.3 Erratum in: *Euro Surveill* 2007;12(10):E071004.6
11. Govender N. HIV-associated opportunistic fungal infections: a guide to using the clinical microbiology laboratory. *S Afr J HIV Med* 2007;Spring edition:18-23.
12. McCarthy KM, Meintjes G, Arthington-Skaggs B, Bicanic T, Cotton M, Chiller T, Govender N, Harrison T, Karstaedt AS, Maartens G, Rabie H, Varavia E, Venter WDF, Vismer H. Guidelines for the Prevention, Diagnosis and Management of Cryptococcal Meningitis and Disseminated Cryptococcosis in HIV-infected patients. *S Afr J HIV Med* 2007;Spring edition:25-35.
13. von Gottberg A, du Plessis M, Cohen C, Prentice E, Schrag S, de Gouveia L, Coulson G, de Jong G, Klugman K. Emergence of endemic serogroup W135 meningococcal disease associated with a high mortality rate in South Africa. *Clin Infect Dis* 2008;46:377-86.
14. Wolter N, du Plessis M, von Gottberg A, de Gouveia L, Klugman KP. Molecular characterization of emerging levofloxacin-nonsusceptible pneumococci in children in South Africa. *J Clin Microbiol* 2009;47:1319-24
15. Smith AM, De Wee L, Keddy KH. Characterization of cholera outbreak isolates from Namibia, December 2006 to February 2007. *Epidemiology and Infection* 2008;136:1207-1209.
16. McCarthy KM, Cohen C, Schneider H, Gould SM, Brandt ME and Hajjeh RA for the Gauteng Cryptococcal Surveillance Initiative Group. The burden of disease due to AIDS in Gauteng: inferred evidence from results of surveillance for cryptococcosis 2002-4. *S Afr Med J* 2008;98 (6):452-454.
17. Whitney AM, Coulson GB, von Gottberg A, Block C, Keller N, Mayer LW, Messonnier NE, Klugman KP. Genotypic comparison of invasive *Neisseria meningitidis* serogroup Y isolates from the United States, South Africa, and Israel, isolated from 1999 through 2002. *J Clin Microbiol* 2009;47:2787-93
18. Murphy E, Andrew L, Lee KL, Dilts DA, Nunez L, Fink PS, Ambrose K, Borrow R, Findlow J, Taha MK, Deghmane AE, Kriz P, Musilek M, Kalmusova J, Caugant DA, Alvestad T, Mayer LW, Sacchi CT, Wang X, Martin D, von Gottberg A, du Plessis M, Klugman KP, Anderson AS, Jansen KU, Zlotnick GW, Hoiseth SK. Sequence Diversity of the Factor H Binding Protein Vaccine Candidate in Epidemiologically Relevant Strains of Serogroup B *Neisseria meningitidis*. *J Infect Dis* 2009;200:379-89.
19. Smith AM, Keddy KH, Sooka A, Ismail H, Dejong GM; Group for Enteric, Respiratory and Meningeal disease Surveillance in South Africa (GERMS-SA). Analysis of a temporal cluster of *Shigella boydii* isolates in Mpumalanga, South Africa, November to December 2007. *J Infect Dev Ctries.* 2009;3(1):65-70.
20. Smith AM, Sooka A, Ismail H, Nadan S, Crisp N, Weenink E, Keddy KH; Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa (GERMS-SA). Analysis of *Vibrio cholerae* isolates from the Northern Cape province of South Africa. *J Med Microbiol.* 2009;58(1):151-4.

21. Keddy, K.H., Dwarika, S., Crowther, P., Perovic, O., Wadula, J., Hoosen, A., Sooka, A., Crewe-Brown, H.H., Smith, A.M. Genotypic and Demographic Characterisation of Invasive Isolates of *Salmonella* Typhimurium Mainly in Patients Co-infected With HIV in Gauteng, South Africa, 2006-2007. *Journal of Infection in Developing Countries* 2009; 3(8), 585-592.
22. Govender N, Smith AM, Karstaedt AS, Keddy KH; Group for Enteric, Respiratory and Meningeal disease Surveillance in South Africa (GERMS-SA). Plasmid-mediated quinolone resistance in *Salmonella* from South Africa. *J Med Microbiol*. 2009;58(10):1393-4.
23. Park BJ, Wannemuehler KA, Marston BJ, Govender N, Pappas PG, Chiller TM. Estimation of the current global burden of cryptococcal meningitis among persons living with HIV/AIDS. *AIDS* 2009;23;525-30.
24. Feldman C, Brink AJ, von Gottberg A, Wolter N, de Gouveia L, Perovic O, Klugman KP. Antimicrobial susceptibility of pneumococcal isolates causing bacteraemic pneumococcal pneumonia: analysis using current breakpoints and fluoroquinolone pharmacodynamics. *Int J Antimicrob Agents* 2010;36:95-97.
25. Mothibeli KM, du Plessis M, von Gottberg A, de Gouveia L, Adrian P, Madhi SA, Klugman KP. An unusual pneumococcal sequence type is the predominant cause of serotype 3 invasive disease in South Africa. *J Clin Microbiol* 2010;48:184-91
26. Cohen C, Singh E, Wu HM, Martin S, de Gouveia L, Klugman KP, Meiring S, Govender N, von Gottberg A. Increased incidence of meningococcal disease in HIV-infected individuals associated with higher case-fatality ratios in South Africa. *AIDS* 2010;24:1351-60.
27. du Plessis M, de Gouveia L, Skosana H, Thomas J, Blumberg L, Klugman KP, von Gottberg A. Invasive *Neisseria meningitidis* with decreased susceptibility to fluoroquinolones in South Africa, 2009. *J Antimicrob Chemother* 2010;65:2258-60.
28. Fali A, du Plessis M, Wolter N, Klugman KP, von Gottberg A. Single report of beta-lactam resistance in an invasive *Haemophilus influenzae* isolate from South Africa mediated by mutations in penicillin-binding protein 3, 2003-2008. *Int J Antimicrob Agents* 2010;36:480-482.
29. Smith AM, Govender N, Keddy KH, for the Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa (GERMS-SA). Quinolone-resistant *Salmonella* Typhi in South Africa, 2003-2007. *Epidemiology and Infection* 2010;138:86-90.
30. Keddy KH, Smith AM, Sooka A, Ismail H, Oliver S. Fluoroquinolone-resistant typhoid, South Africa. *Emerging Infectious Diseases* 2010;16:879-880.
31. Feasey N, Archer BN, Heyderman RS, Gordon MA, Keddy KH. Typhoid Fever and invasive Non-Typhoid Salmonellosis, Malawi and South Africa. *Emerging Infectious Diseases* 2010; 16:1448-1451.
32. Croucher NJ, Harris SR, Fraser C, Quail MA, Burton J, van der Linden M, McGee L, von Gottberg A, Song JH, Ko KS, Pichon B, Baker S, Parry CM, Lambertsen LM, Shahinas D, Pillai DR, Mitchell TJ, Dougan G, Tomasz A, Klugman KP, Parkhill J, Hanage WP, Bentley SD. Rapid pneumococcal evolution in response to clinical interventions. *Science* 2011;331:430-434.
33. Nunes MC, von Gottberg A, de Gouveia L, Cohen C, Moore DP, Klugman KP, Madhi SA. The impact of antiretroviral treatment on the burden of invasive pneumococcal disease in South African children: a time series analysis. *AIDS* 2011;25:453-62.
34. Nyasulu P, Cohen C, de Gouveia L, Feldman C, Klugman KP, von Gottberg A. Increased Risk of Death in Human Immunodeficiency Virus-infected Children With Pneumococcal Meningitis in South Africa, 2003-2005. *Pediatr Infect Dis J* 2011;30:1075-80.
35. Son MR, Shchepetov M, Adrian PV, Madhi SA, de Gouveia L, von Gottberg A, Klugman KP, Weiser JN, Dawid S. Conserved Mutations in the Pneumococcal Bacteriocin Transporter Gene, *blpA*, Result in a Complex Population Consisting of Producers and Cheaters. *MBio* 2011;2:e00179-11.
36. Silberbauer EJ, Ismail N, von Gottberg A, Hoosen AA. Serotype and antimicrobial profile distribution of invasive pneumococcal isolates in the pre-vaccine introduction era in Pretoria, South Africa, 2005 through 2009. *Diagn Microbiol Infect Dis* 2011;71:309-11.
37. Nunes MC, von Gottberg A, de Gouveia L, Cohen C, Kuwanda L, Karstaedt AS, Klugman KP, Madhi SA. Persistent High Burden of Invasive Pneumococcal Disease in South African HIV-Infected Adults in the Era of an Antiretroviral Treatment Program. *PLoS One* 2011;6:e27929
38. Moodley T, Lekalakala M R, de Gouveia L, Dangor Y, Hoosen A A. Meningococcal infections in hospitalised patients in Pretoria. *S Afr Med J* 2011;101:736-738.
39. Mothibeli KM, du Plessis M, von Gottberg A, Murphy E, Hoiseh SK, Zlotnick G, Klugman KP. Distribution of factor H binding protein beyond serogroup B: variation among five serogroups of invasive *Neisseria meningitidis* in South Africa. *Vaccine* 2011;29:2187-92.
40. Keddy KH, Sooka A, Ismail H, Smith AM, Weber I, Letsoalo ME, Harris BN for GERMS SA. Molecular epidemiological investigation of a typhoid fever outbreak in Delmas, South Africa 2005: the relationship to a prior epidemic in 1993. *Epidemiol Infect* 2011;139: 1239-45
41. Smith AM, Tau NP, Sooka A, Keddy KH for the Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa (GERMS-SA). Surveillance for enterohaemorrhagic *Escherichia coli* associated with human diarrhoea in South Africa, 2006-2009. *J Med Microbiol* 2011;60:681-683.
42. Ismail H, Smith AM, Sooka A, Keddy KH for the Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa (GERMS-SA). Genetic characterisation of multi-drug resistant,  $\beta$ -lactamase producing *Vibrio cholerae* O1 outbreak strains, Mpumalanga, South Africa, 2008. *J Clin Microbiol* 2011; 49: 2976-79.

43. Crowther-Gibson P, Govender N, Lewis DA, Bamford C, Brink A (principal authors). Von Gottberg A, Klugman K, Du Plessis M, Fali A, Harris B, Keddy K, Botha M (co-authors). Part IV. Human infections and antibiotic resistance. *South Afr Med J Suppl.*: The Global Antibiotic Resistance Partnership. 2011;101:567-578.
44. Bamford C, Brink A, Govender N, Lewis DA (principal authors). Botha M, Harris B, Keddy K, Gelband H, Duse AG (co-authors). Part V. Surveillance activities. *South Afr Med J Suppl.*: The Global Antibiotic Resistance Partnership. 2011; 01:579-582.
45. Park BJ, Shetty S, Ahlquist A, Greenbaum A, Miller JL, Motsi A, McCarthy K, Govender N; for the Gauteng Cryptococcal Surveillance Initiative Group. Long-term follow-up and survival of antiretroviral-naïve patients with cryptococcal meningitis in the pre-antiretroviral therapy era, Gauteng Province, South Africa. *Int J STD AIDS*. 2011 Apr;22(4):199-20
46. Govender NP, Patel J, van Wyk M, Chiller TM, Lockhart SR; for the Group for Enteric, Respiratory and Meningeal disease Surveillance in South Africa (GERMS-SA). Trends in Antifungal Drug Susceptibility of *Cryptococcus neoformans* Obtained Through Population-based Surveillance, South Africa, 2002-2003 and 2007-2008. *Antimicrob Agents Chemother*. 2011 Jun;55(6):2606-11.
47. Miglia KJ, Govender NP, Rossouw J, Meiring S, Mitchell TG; Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa. Analyses of pediatric isolates of *Cryptococcus neoformans* from South Africa. *J Clin Microbiol*. 2011 Jan;49(1):307-14.
48. Madhi SA, Cohen C, von Gottberg A. Introduction of pneumococcal conjugate vaccine into the public immunization program in South Africa: translating research into policy. *Vaccine* 2012; 30 Suppl 3:C21-C27.
49. Wyres KL, Lambertsen LM, Croucher NJ, McGee L, von Gottberg A, Linares J, Jacobs MR, Kristinsson KG, Beall BW, Klugman KP, Parkhill J, Hakenbeck R, Bentley SD, Brueggemann AB. The multidrug-resistant PMEN1 pneumococcus is a paradigm for genetic success. *Genome Biol* 2012; 13:R103.
50. Soeters HM, von Gottberg A, Cohen C, Quan V, and Klugman KP. Trimethoprim-Sulfamethoxazole Prophylaxis and Antibiotic Nonsusceptibility in Invasive Pneumococcal Disease. *Antimicrob Agents Chemother* 2012;56:1602-1605
51. Moodley C, du Plessis M, Ndlangisa K, de Gouveia L, Klugman KP, von Gottberg A. Clonal Analysis of *Neisseria meningitidis* Serogroup B Strains in South Africa, 2002 to 2006: Emergence of New Clone ST-4240/6688. *J Clin Microbiol* 2012; 50:3678-86.
52. Tau NP, Smith AM, Sooka A, Keddy KH for GERMS-SA. Molecular characterization of extended-spectrum beta-lactamase-producing *Shigella* isolates from humans in South Africa, 2003-2009. *J Med Microbiol* 2012;61:162-164.
53. Tau NP, Meidany P, Smith AM, Sooka A, Keddy KH for the Group for Enteric, Respiratory, and Meningeal Disease Surveillance in South Africa. *Escherichia coli* O104 associated with human diarrhea, South Africa, 2004-2011. *Emerg Infect Dis*. 2012; 18(8):1314-1317.
54. Keddy KH, Sooka A, Crowther-Gibson P, Quan V, Meiring S, Cohen C, Nana T, Sriruttan C, Seetharam S, Hoosen A, Naicker P, Elliott E, Haffeejee S, Whitelaw A, Klugman KP, for the Group for Enteric, Respiratory, and Meningeal Disease Surveillance in South Africa (GERMS-SA). Systemic Shigellosis in South Africa. *Clin Infect Dis*. 2012;54(10): 1448-1454.
55. Espinel-Ingroff A, Chowdhary A, Cuenca-Estrella M, Fothergill A, Fuller J, Hagen F, Govender N, Guarro J, Johnson E, Lass-Flörl C, Lockhart SR, Martins MA, Meis JF, Melhem MS, Ostrosky-Zeichner L, Pelaez T, Pfaller MA, Schell WA, Trilles L, Kidd S, Turnidge J. *Cryptococcus neoformans-Cryptococcus gattii* Species Complex: An International Study of Wild-Type Susceptibility Endpoint Distributions and Epidemiological Cutoff Values for Amphotericin B and Flucytosine. *Antimicrob Agents Chemother*. 2012 Jun; 56(6):3107-13.
56. Jarvis JN, Govender N, Chiller T, Park BJ, Longley N, Meintjes G, Bekker LG, Wood R, Lawn SD, Harrison TS. Cryptococcal Antigen Screening and Pre-emptive Therapy in Patients Initiating Antiretroviral Therapy in Resource-Limited Settings: A Proposed Algorithm for Clinical Implementation. *J Int Assoc Physicians AIDS Care* 2012. 2012 Nov-Dec;11(6):374-9.
57. Govender NP, Roy M, Oladoyinbo S, Maotoe T, Stevens W, Pinini Z, Spencer D, Venter WDF, Jassat W, Cameron D, Meintjes G, Chiller T, Chetty V, Mbengashe T and Pillay Y for the South African Cryptococcal Screening Initiative Group. Phased Implementation of Screening for Cryptococcal Disease in South Africa. *S Afr Med J*. 2012 Oct 8;102(12):914-7.
58. A comparison of paediatric- and adult-onset cryptococcosis detected through population-based surveillance in South Africa, 2005-2007. Susan T. MEIRING, Vanessa C. QUAN, Cheryl COHEN, Halima DAWOOD, Alan S. KARSTAEDT, Kerrigan M. MCCARTHY, Andrew C. WHITELAW, and Nelesh P. GOVENDER for the Group for Enteric, Respiratory and Meningeal disease Surveillance in South Africa (GERMS-SA) – AIDS. 2012 Nov 28;26(18):2307-14. doi: 10.1097/QAD.0b013e3283570567.
59. Klausner J, Govender N, Oladoyinbo S, Roy M, Chiller T. Response to Parkes-Ratanshi R, Wakeham K, Levin J, et al. Primary prophylaxis of cryptococcal disease with fluconazole in HIV-positive Ugandan adults: a double-blind, randomized, placebo-controlled trial. *Lancet Infect Dis*. 2012 Jun; 12(6):431-2.
60. Wyres KL, Lambertsen LM, Croucher NJ, McGee L, von Gottberg A, Linares J, Jacobs MR, Kristinsson KG, Beall BW, Klugman KP, Parkhill J, Hakenbeck R, Bentley SD, Brueggemann AB. Pneumococcal capsular switching: a historical perspective. *J Infect Dis* 2013; 207:439-49.
61. von Gottberg A, Cohen C, de Gouveia L, Meiring S, Quan V, Whitelaw A, Crowther-Gibson P, Madhi SA, Whitney CG, Klugman KP. Epidemiology of invasive pneumococcal disease in the pre-conjugate vaccine era: South Africa, 2003-2008. *Vaccine* 2013; 31:4200-4208.
62. Ismail H, Smith AM, Tau NP, Sooka A, Keddy KH for the Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa (GERMS-SA). Cholera outbreak in South Africa, 2008-2009: Laboratory analysis of *Vibrio cholerae* O1 strains. *J Infect Dis*. 2013;208: S39-S45.

63. Govender NP, Meintjes G, Bicanic T, Dawood H, Harrison TS, Jarvis JN, Karstaedt AS, Maartens G, McCarthy KM, Rabie H, Variava E and Venter WDF. Guideline for Prevention, Diagnosis and Management of Cryptococcal Meningitis among HIV-infected Persons: 2013 Update. *S Afr J HIV Med* 2013; 14(2):76-86.
64. du Plessis M, Wolter N, Crowther-Gibson P, Hamstra HJ, Schipper K, Moodley C, Cohen C, van de Beek D, van der Ley P, von Gottberg A, van der Ende A. Meningococcal serogroup Y IpxL1 variants from South Africa are associated with clonal complex 23 among young adults. *J Infect* 2014; 68:455-61.
65. von Gottberg A, de Gouveia L, Tempia S, Quan V, Meiring S, von Mollendorf C, Madhi SA, Zell ER, Verani JR, O'Brien KL, Whitney CG, Klugman KP, Cohen C. Effects of vaccination on invasive pneumococcal disease in South Africa. *N Engl J Med* 2014;371:1889-99.
66. Ndlangisa KM, du Plessis M, Wolter N, de Gouveia L, Klugman KP, von Gottberg A. Population Snapshot of *Streptococcus pneumoniae* Causing Invasive Disease in South Africa Prior to Introduction of Pneumococcal Conjugate Vaccines. *PLoS One* 2014;9:e107666.
67. van Tonder AJ, Mistry S, Bray JE, Hill DM, Cody AJ, Farmer CL, Klugman KP, von Gottberg A, Bentley SD, Parkhill J, Jolley KA, Maiden MC, Brueggemann AB. Defining the estimated core genome of bacterial populations using a Bayesian decision model. *PLoS Comput Biol* 2014;10:e1003788.
68. Magomani V, Wolter N, Tempia S, du Plessis M, de Gouveia L, von Gottberg A. Challenges of using molecular serotyping for surveillance of pneumococcal disease. *J Clin Microbiol* 2014;52:3271-76.
69. von Mollendorf C, Cohen C, de Gouveia L, Quan V, Meiring S, Feldman C, Klugman KP, von Gottberg A. Factors Associated with Ceftriaxone Nonsusceptibility of *Streptococcus pneumoniae*: Analysis of South African National Surveillance Data, 2003 to 2010. *Antimicrob Agents Chemother* 2014;58:3293-305.
70. Dangor Z, Izu A, Moore DP, Nunes MC, Solomon F, Beylis N, von Gottberg A, McAnerney JM, Madhi SA. Temporal association in hospitalizations for tuberculosis, invasive pneumococcal disease and influenza virus illness in South African children. *PLoS One* 2014;9:e91464.
71. von Mollendorf C, Cohen C, de Gouveia L, Naidoo N, Meiring S, Quan V, Lindani S, Moore DP, Reubenson G, Moshe M, Eley B, Hallbauer UM, Finlayson H, Madhi SA, Conklin L, Zell ER, Klugman KP, Whitney CG, von Gottberg A; for the South African IPD Case-Control Study Group. Risk Factors for Invasive Pneumococcal Disease among Children less Than 5 Years of Age in a High HIV-Prevalence Setting, South Africa, 2010 to 2012. *Pediatr Infect Dis J*. 2015 Jan; 34 (1): 27-34 Epub 2014 Jul 3
72. van Wyk M, Govender NP, Mitchell TG, Litvintseva AP; GERMS-SA. Multilocus Sequence Typing of Serially Collected Isolates of *Cryptococcus* from HIV-Infected Patients in South Africa. *J Clin Microbiol*. 2014 Mar 19.
73. Govender NP and Dlamini S. Management of HIV-associated cryptococcal disease in South Africa. *S Afr J Med* 2014;104 (12): 896.
74. Govender NP, Meintjes G and Banoo S. Access to flucytosine for HIV-infected patients with cryptococcal meningitis: an urgent need. *S Afr Med J* 2014: In press.
75. Magobo RE, Corcoran C, Seetharam S, Govender NP. *Candida auris*-Associated Candidemia, South Africa. *Emerg Infect Dis*. 2014 Jul;20(7).
76. Jarvis JN, Bicanic T, Loyse A, Meintjes G, Hogan L, Roberts CH, Shoham S, Perfect JR, Govender NP, Harrison TS. Very Low Levels of 25-Hydroxyvitamin D Are Not Associated With Immunologic Changes or Clinical Outcome in South African Patients With HIV-Associated Cryptococcal Meningitis. *Clin Infect Dis*. 2014 Aug 15;59(4):493-500.
77. Loyse A, Thangaraj H, Govender NP, Harrison T, Bicanic T; all authors. Access to antifungal medicines in resource-poor countries - authors' reply. *Lancet Infect Dis*. 2014 May;14(5):371.
78. Govender NP, Roy M, Mendes JF, Zulu TG, Chiller TM and Karstaedt AS. Evaluation of Screening and Treatment of Cryptococcal Antigenaemia among HIV-infected Persons in Soweto, South Africa. *HIV Med* 2015. In Press.
79. Longley N, Jarvis JN, Meintjes G, Bouille A, Cross A, Kelly N, Govender NP, Bekker LG, Wood R, Harrison TS. Cryptococcal Antigen Screening in Patients Initiating ART In South Africa: A Prospective Cohort Study. *Clin Infect Dis*. 2015 Nov 12. pii: civ936. In press
80. Espinel-Ingroff A, Alvarez-Fernandez M, Cantón E, Carver PL, S. C-A. Chen, G. Eschenauer, D. L. Getsinger, G. M. Gonzalez, Govender NP, A. Grancini, K. E. Hanson, S. E. Kidd, K. Klinker, C. J. Kubin, J.V. Kus, S. R. Lockhart, J. Meletiadiis, A. J. Morris, T. Pelaez, G. Quindós, M. Rodriguez-Iglesias, F. Sánchez-Reus, S. Shoham, N. L. Wengenack, N. Borrell Solé, J. Echeverria, J. Esperalba, E. Gómez-G. de la Pedrosa, I. García García, M. J. Linares, F. Marco, P. Merino, J. Pemán, L. Pérez del Molino, E. Roselló Mayans, C. Rubio Calvo, M. Ruiz Pérez de Pipaon, G. Yagüe, G. Garcia-Effron, J. Guinea, D. S. Perlin, M. Sanguinetti, R. Shields, and J. Turnidge. A multi-center study of epidemiological cutoff values and detection of resistance in *Candida* spp. to anidulafungin, caspofungin and micafungin using the Sensititre YeastOne colorimetric method. *Antimicrob. Agents Chemother*. 2015 Nov;59(11):6725-32. doi: 10.1128/AAC.01250-15. Epub 2015 Aug 17.
81. Du Plessis D, et al. Laboratory-based surveillance for *Pneumocystis pneumonia* in South Africa, 2006 through 2010. *S Afr J Infect Dis* 2016. In press
82. von Mollendorf C, von Gottberg A, Tempia S, Meiring S, de Gouveia L, Quan V, Lengana S, Aveneant T, du Plessis N, Eley B, Finlayson H, Reubenson G, Moshe M, O'Brien KL, Klugman KP, Whitney CG, Cohen C, for the Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa (GERMS-SA). Increased risk and mortality of invasive

- pneumococcal disease in HIV-exposed-uninfected infants <1 year of age in South Africa, 2009-2013. *Clin Infect Dis*. 2015 May 1;60(9):1346-56. doi: 10.1093/cid/civ059. Epub 2015 Feb 2.
83. Walaza S, Cohen C. Recommendations pertaining to the use of influenza vaccines and influenza antiviral drugs: *Influenza 2015. S Afr Med J*. 2015 Jan 12;105(2):90-1. doi: 10.7196/samj.9367.
  84. McAnerney JM, Treurnicht F, Walaza S, Cohen AL, Tempia S, Mtshali S, Buys A, Blumberg L, Cohen C. Evaluation of influenza vaccine effectiveness and description of circulating strains in outpatient settings in South Africa, 2014. *Influenza Other Respir Viruses*. 2015 Jul;9(4):209-15. doi: 10.1111/irv.12314.
  85. Cohen C, Walaza S, Moyes J, Groome M, Tempia S, Pretorius M, Hellferscee O, Dawood H, Haffejee S, Variava E, Kahn K, Tshangela A, von Gottberg A, Wolter N, Cohen AL, Kgekong B, Venter M, Madhi SA. Epidemiology of severe acute respiratory illness (SARI) among adults and children aged ≥5 years in a high HIV-prevalence setting, 2009-2012. *PLoS One*. 2015 Feb 23;10(2):e0117716. doi: 10.1371/journal.pone.0117716. eCollection 2015.
  86. Wolter N, Carrim M, Cohen C, Tempia S, Walaza S, Sahr P, de Gouveia L, Treurnicht F, Hellferscee O, Cohen AL, Benitez AJ, Dawood H, Variava E, Winchell JM, von Gottberg A. Legionnaires' disease in South Africa, 2012-2014. *Emerging Infectious Diseases*. 2016; 22(1):131-133.
  87. Cohen C, Naidoo N, Meiring S, de Gouveia L, von Mollendorf C, Walaza S, Naicker P, Madhi SA, Feldman C, Klugman KP, Dawood H, von Gottberg A for GERMS-SA. *Streptococcus pneumoniae* serotypes and mortality in adults and adolescents in South Africa: analysis of national surveillance data, 2003 – 2008. *PLoS One*. 2015 Oct 13;10(10):e0140185. doi: 10.1371/journal.pone.0140185. eCollection 2015
  88. Cohen AL, Sahr PK, Treurnicht F, Walaza S, Groome MJ, Kahn K, Dawood H, Variava E, Tempia S, Pretorius M, Moyes J, Olorunju SAS, Malope-Kgekong B, Kuonza L, Wolter N, von Gottberg A, Madhi SA, Venter M, Cohen C for the South African Severe Acute Respiratory Illness (SARI) Surveillance Group. Parainfluenza Virus Infection among HIV-infected and HIV-uninfected Children and Adults Hospitalized for Severe Acute Respiratory Illness in South Africa, 2009-2014. *Open Forum on Infectious Diseases*. 2015 Sep 19;2(4):ofv139. doi: 10.1093/ofid/ofv139. eCollection 2015 Dec.
  89. Tempia S, Wolter N, Cohen C, Walaza S, von Mollendorf C, Cohen AL, Moyes J, de Gouveia L, Nzenze S, Treurnicht F, Venter M, Groome MJ, Madhi SA, von Gottberg A. Assessing the Impact of Pneumococcal Conjugate Vaccines on Invasive Pneumococcal Disease Using Polymerase Chain Reaction-Based Surveillance: An Experience from South Africa. *BMC Infectious Diseases*. 2015; 15(450). DOI 10.1186/s12879-015-1198-z
  90. Iyengar P, von Mollendorf C, Tempia S, Moerdyk A, Valley-Omar Z, Hellferscee O, Martinson M, Chhagan M, McMorro M, Gambhiri M, Cauchemez S, Variava E, Masonoke K, Cohen AL, Cohen C. Case-Ascertained Study of Household Transmission of Seasonal Influenza — South Africa, 2013. *J Infect*. 2015 Nov;71(5):578-86. doi: 10.1016/j.jinf.2015.09.001. Epub 2015 Sep 11.
  91. Cohen C, Moyes J, Tempia S, Groome M, Walaza S, Pretorius M, Dawood H, Chhagan M, Haffejee S, Variava E, Kahn K, von Gottberg A, Wolter N, Cohen AL, Malope-Kgekong B, Venter M, Madhi SA. Mortality amongst patients with influenza-associated severe acute respiratory illness, South Africa, 2009-2013. *PLoS One*. 2015 Mar 18;10(3):e0118884. doi: 10.1371/journal.pone.0118884. eCollection 2015.
  92. Caini S, Huang QS, Ciblak MA, Kuszniarz G, Owen R, Wangchuk S, Henriques CM, Njouom R, Fasce RA, Yu H, Feng L, Zambon M, Clara AW, Kosasih H, Puzelli S, Kadjo HA, Emukule G, Heraud JM, Ang LW, Venter M, Mironenko A, Brammer L, Mai le TQ, Schellevis F, Plotkin S, Paget J; Global Influenza B Study. Epidemiological and virological characteristics of influenza B: results of the Global Influenza B Study. (Cohen C is a member of the Global Influenza B Study group). *Influenza Other Respir Viruses*. 2015 Aug;9 Suppl 1:3-12. doi: 10.1111/irv.12319.
  93. von Mollendorf C, Cohen C, de Gouveia L, Naidoo N, Meiring S, Quan V, Lindani S, Moore DP, Reubenson G, Moshe M, Eley B, Hallbauer UM, Finlayson H, Madhi SA, Conklin L, Zell ER, Klugman KP, Whitney CG, von Gottberg A; South African IPD Case–Control Study Group. Risk factors for invasive pneumococcal disease among children less than 5 years of age in a high HIV prevalence setting, South Africa, 2010 to 2012. *Pediatr Infect Dis J*. 2015 Jan;34(1):27-34. doi: 10.1097/INF.0000000000000484.
  94. Groome MJ, Moyes J, Cohen C, Walaza S, Tempia S, Pretorius M, Hellferscee O, Chhagan M, Haffejee S, Dawood H, Kahn K, Variava E, Cohen AL, von Gottberg A, Wolter N, Venter M, Madhi SA. Human metapneumovirus-associated severe acute respiratory illness hospitalisation in HIV-infected and HIV-uninfected South African children and adults. *J Clin Virology*. 2015; 69(2015): 125-132.
  95. Murray J, Cohen A, Walaza S, Groome M, Madhi SA, Variava E, Kahn K, Dawood H, Tempia S, Tshangela A, Venter M, Feikin D, Cohen C. Determining the provincial and national burden of influenza-associated severe acute respiratory illness in South Africa using a rapid assessment methodology. *PLoS One*. 2015 Jul 8;10(7):e0132078. doi: 10.1371/journal.pone.0132078. eCollection 2015.
  96. Cohen AL, McMorro M, Walaza S, Cohen C, Tempia S, Alexander-Scott M, Widdowson M. Potential Impact of Co-Infections and Co-Morbidities Prevalent in Africa on Influenza Severity and Frequency: A Systematic Review. *PLoS ONE* 10(6):e0128580. doi:10.1371/journal.pone.0128580
  97. Tempia S, Walaza S, Cohen AL, von Mollendorf C, Moyes J, McAnerney JM, Cohen C. Mortality Associated with Seasonal and Pandemic Influenza among Pregnant and Non-Pregnant Women of Childbearing Age in a High HIV Prevalence Setting - South Africa, 1999-2009. *C Clin Infect Dis*. 2015 Oct 1;61(7):1063-70. doi: 10.1093/cid/civ448. Epub 2015 Jun 9.

98. Budgell E, Cohen AL, McAnerney J, Walaza S, Madhi SA, Blumberg L, Dawood L, Dawood H, Kahn K, Tempia S, Venter M, Cohen C. Evaluation of two influenza surveillance systems in South Africa. *Plos One* 2015 PLoS ONE. 10(3): e0120226. doi:10.1371/journal.pone.0120226.
99. McAnerney JM, Walaza S, Cohen AL, Tempia S, Buys A, Venter M, Blumberg L, Duque J, Cohen C. Effectiveness and knowledge, attitudes and practises of seasonal influenza vaccine in primary health care settings in South Africa, 2010-2013. *Influenza and other respiratory viruses*. 2015 Feb 10. doi: 10.1111/irv.12305. [Epub ahead of print]
100. Tempia S, Walaza S, Viboud C, Cohen AL, Madhi SA, Venter M, von Mollendorf C, Moyes J, McAnerney JM, Cohen C. Mortality Associated with Seasonal and Pandemic Influenza and Respiratory Syncytial Virus among Individuals Aged  $\geq 5$  Years in a High HIV-Prevalence Setting – South Africa, 1998-2009. *Emerg Inf Dis* 2015 (In Press)
101. Walaza S, Tempia S, Dawood H, Variava E, Moyes J, Cohen AL, Wolter N, Groome M, von Mollendorf C, Kahn K, Pretorius M, Venter M, Madhi SA, Cohen C. Influenza virus infection is associated with increased risk of death amongst patients hospitalized with confirmed pulmonary tuberculosis in South Africa, 2010-2011. *BMC Infectious Diseases*. 2015, 15:26 DOI 10.1186/s12879-015-0746-x
102. Walaza S, Cohen C, Nanoo A, Cohen AL, McAnerney J, von Mollendorf C, Moyes J, Tempia S. Excess Mortality Associated with Influenza among Tuberculosis Deaths in South Africa, 1999-2009. *PLoS One*. 2015 Jun 15;10(6):e0129173. doi: 10.1371/journal.pone.0129173. eCollection 2015.
103. McMorro ML, Wemakoy EO, Tshilobo JK, Emukule GO, Mott JA, Njuguna H, Waiboci L, Heraud J, Rajatonirina S, Razanajatovo NH, Chilombe M, Everett D, Heyderman RS, Barakat A, Nyatanyi T, Rukelibuga J, Cohen AL, Cohen C, Tempia S, Thomas J, Venter M, Mwakapeje E, Mponela M, Lutwama J, Duque J, Lafond K, Nzussouo NT, Williams T, Widdowson M. Severe acute respiratory illness deaths in Sub-Saharan Africa and the role of influenza: a case-series from 8 countries. *J Infect Dis*. 2015 (In press)
104. Cohen C, Walaza S, Moyes J, Groom M, Tempia S, Pretorius M, Hellferscee O, Dawood H, Chhagan M, Naby F, Haffejee S, Variava E, Kahn K, Nzenze S, Tshangela A, von Gottberg A, Wolter N, Cohen AL, Kgokong B, Venter M, Madhi SA. Epidemiology of viral-associated acute lower respiratory tract infection amongst children aged  $<5$  years in a high HIV prevalence setting, South Africa, 2009-2012. *Pediatr Infect Dis J*. 2015; 34(1):66-72.
105. Lafond K, Nair H, Hafiz Rasooly M ..et al. Widdowson M, Global Respiratory Disease Influenza Proportion Positive (GRIPP) Working Group. Global Role and Burden of Influenza in Pediatric Respiratory Hospitalizations, 1982-2012: A Systematic Analysis. *Plos Med*. 2016. (In press)(Cohen C is a member of the GRIPP working group).
106. Pretorius MA, Tempia S, Walaza S, Cohen AL, Moyes J, Variava E, Dawood H, Selekla M, Hellferscee O, Treurnicht F, Cohen C, Venter M. The role of influenza, RSV and other common respiratory viruses in severe acute respiratory infections and influenza-like illness in a population with a high HIV sero-prevalence, South Africa 2012-2015. *J Clin Virol*. 2015 Dec 19;75:21-26. doi: 10.1016/j.jcv.2015.12.004. [Epub ahead of print]
107. Milne GJ, Halder N, Kelso JK, Barr IG, Moyes J, Kahn K, Twine R, Cohen C. Trivalent and quadrivalent influenza vaccination effectiveness in Australia and South Africa: results from a modelling study. *Influenza Other Respir Viruses*. 2015 Dec 12. doi: 10.1111/irv.12367. [Epub ahead of print]
108. von Mollendorf C, Cohen C, Tempia S, Meiring S, de Gouveia L, Quan V, Lengana S, Karstaedt A, Dawood H, Seetharam S, Lekalakala R, Madhi SA, Klugman KP, von Gottberg A for GERMS-SA. Epidemiology of Serotype 1 Invasive Pneumococcal Disease, South Africa, 2003–2013. *Emerg Infect Dis*. 2016; 22(2):261-270. DOI: 10.3201/eid2202.150967.
109. Smith AM, Tau N, Sooka A, Keddy KH for GERMS-SA. Microbiological characterization of Salmonella enterica serotype Paratyphi, South Africa, 2003-2014. *J Med Microbiol*. 2015 Aug 24. doi: 10.1099/jmm.0.000161.
110. Keddy KH, Sooka A, Musekiwa A, Smith AM, Ismail H, Tau NP, Crowther-Gibson P, Angulo FJ, Klugman KP; Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa (GERMS-SA); Group for Enteric Respiratory and Meningeal Disease Surveillance in South Africa GERMS-SA. Clinical and microbiological features of Salmonella Meningitis in a South African Population, 2003-2013. *Clin Infect Dis*. 2015 Nov 1;61 Suppl 4:S272-82. doi: 10.1093/cid/civ685. (Nominated for Shepard Award)
111. Singh-Moodley A, Ekermans P and Perovic O. Emerging Carbapenem-Resistant Enterobacter cloacae Producing OXA-48-, VIM- and IMP-Type- $\beta$ -lactamases in Eastern Cape Hospitals in South Africa. *Open Journal of Medical Microbiology* 2015; 5, 246-253. DOI: 10.4236/ojmm.2015.54030.
112. Singh-Moodley A, Marais E and Perovic O. Discrepancies between Genotypic and Phenotypic identification of Methicillin-Resistant Staphylococcus aureus and absence of mecC in surveillance isolates in South Africa. *Southern African Journal of Infectious Diseases* 2015; 1(1):1-3. <http://dx.doi.org/10.1080/23120053.2015.1107256>
113. Perovic O, Iyaloo S, Lowman W, Kularatne R, Bosman N, Wadula J, Seetharam S, Duse A, Mbelle N, Bamford C, Dawood H, Mahabeer Y, Bhola P, Abrams S and Singh-Moodley A. Prevalence and trends of Staphylococcus aureus bacteraemia in hospitalised patients in South Africa, 2010 to 2012: Laboratory-based surveillance mapping of antimicrobial resistance and molecular epidemiology. *PLoS ONE* 10(12): e0145429. doi:10.1371/journal.pone.0145429.