



International Conferences

Microbiology Division

Coetzee M, Hunt RH, Koekemoer LL, Brooke BD. Malaria vector control and insecticide resistance. Royal Society of Tropical Medicine & Hygiene Centenary Celebration, London, UK, September 13-14, 2007.

de Gouveia L, von Gottberg A, Mpembe R, Hattingh O, Klugman K for GERMS-SA (Group for Enteric, Respiratory and Meningeal Surveillance in South Africa). Bacterial meningitis in children in 2005 in South Africa. Poster presentation. 2007 International Meeting on Emerging Diseases and Surveillance (IMED), Vienna, Austria, February 23-25, 2007.

Firnhaber C, Van Le H, Pettifor H, Schulze D, Michelow P, Sanne I, William B, Lewis DA, Williamson A-L, Allan B, Williams S, van der Horst C, and Smith JS. Effect of antiretroviral therapy on cervical lesions among HIV seropositive women in Johannesburg, South Africa. Oral presentation at the 24th International Papillomavirus Meeting, Beijing, November 3-9, 2007.

Frean J. African Tick bite fever. RSTMH Centennial Symposium, 16th Annual Scientific Meeting of the Australasian College of Tropical Medicine and North Queensland Centre for Cancer Research, Townsville, Australia, July 2007.

Frean J. Tales of the unexpected: malaria acquired outside endemic areas. 2nd Copeland oration, 16th Annual Scientific Meeting of the Australasian College of Tropical Medicine and North Queensland Centre for Cancer Research, Townsville, Australia, July 2007.

Hunt RH. Entomological surveys in support of malaria vector control in Africa. 5th Biennial Conference of the African Malaria Network Trust, Zanzibar, Tanzania, February 26-28, 2007.

Keddy KH. A food-borne outbreak of Salmonella Virchow in Mpumalanga, December 2006 the mistakes we make from which we learn. Annual Enter-net Workshop, 5-7 July 2007, Vienna, Austria.

Lewis DA, Cheyip M, Baepi M, Bolani M, Radebe F. Impact of new periodic presumptive therapy services on STI syndromes and infections in high risk women living within South African mining communities. Oral presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29 -August 1, 2007.

Lewis DA, Cheyip M, Hussein F, Mndzebele S, Matumo N, Elgoni A. Establishment of enhanced clinical surveillance systems for sexually transmitted infections in Botswana and Swaziland. Poster presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Lewis DA, Magooa P, Mhonto S, Mohlamonyane O, Black V. Comparison of a rotor gene-based real-time PCR and the Aptima Combo-2 assay for the diagnosis of gonococcal and chlamydial infection in male urine samples. Poster presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Lewis DA, Pillay C, Mohlamonyane O, Mbabela S, Zezi A, Mzaidume Z, Radebe F. Opening Pandora's box: exposing the burden of HIV and sexually transmitted infections among men residing in informal settlements near Carletonville, South Africa. Poster presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Lewis DA, Ronald A. The declining prevalence of *H. ducreyi* in previously endemic area: hypotheses and implications for syndromic management and clinical and basic research. Oral presentation at the *Haemophilus ducreyi* symposium, 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Lewis DA, Scott L, Slabbert M, Mkhonto S, van Zijl A, Ntuli D, du Plessis N, Wasserman E, Radebe F. Escalation in the prevalence of ciprofloxacin resistant gonorrhoea in men presenting with urethritis to public health facilities in two South African cities. Poster presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Lewis DA, Tshelane S, Khanyile N, Pillay C. Surveillance of sexually transmitted infections in Gauteng Province, South Africa: 2000-2006. Poster presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Lewis DA. Challenges for Africa: antibiotic resistance, changing STI aetiologies and devastation by HIV. Symposium presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Lewis DA. HIV and women: the African Experience. Oral presentation at the Australasian Sexual Health Conference 2007, Gold Coast, Australia, 8-10 October 2007.

Lewis DA. Measuring trends in STI syndrome aetiologies and antibiotic resistance patterns: the South African experience. Oral presentation at the Australasian Sexual Health Conference 2007, Gold Coast, Australia, 8-10 October 2007.

McGee L, Biek D, Ge Y, Klugman M, du Plessis M, Smith AM, Moore M, Whitney CG and Klugman KP for the ABCs Team Evaluation of the Bactericidal Activity of Ceftaroline (CPT) and ME1036 Compared to Other β -lactam Agents Against Cephalosporin-resistant Clinical Isolates of *Streptococcus pneumoniae* and R6 Mutants with Defined Resistance Genes Poster presentation C2-215. In: Abstracts 47th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). September 17-20, 2007, McCormick Place, Chicago, Illinois, USA.

Mothibeli KM, du Plessis M, von Gottberg A, de Gouveia L and Klugman KP, for the Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa. Molecular epidemiology of antimicrobial-resistant serotype 3 pneumococci in South Africa. Poster presentation C2-206. In: Abstracts 47th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). September 17-20, 2007, McCormick Place, Chicago, Illinois, USA.

Mpembe RMS, Cohen C, von Gottberg A, Schrag S, de Gouveia L, Wolter N, du Plessis M, Govender N, Quan V, Meiring S and Klugman KP, for the Group for Enteric, Respiratory and Meningeal Disease Surveillance in South Africa. Fluoroquinolone-resistant pneumococci among children treated for multidrug-resistant tuberculosis in South Africa. Poster presentation C2-195. In: Abstracts 47th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). September 17-20, 2007, McCormick Place, Chicago, Illinois, USA.

Muller E, Paz-Bailey G, Pillay C, Lewis DA. The aetiology of genital ulcer disease among men presenting at primary health care clinics in South Africa. Poster presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Müller EE, Mkhonto S, Mhlongo S, Zietsman I, Radebe F, Nyati F, Lewis DA. The aetiology of vaginal discharge, male urethritis and genital ulcer syndromes

in Kimberley, South Africa. Poster presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Paz Bailey G, Sternberg M, Puren A, Pillay C, Ballard R, Delany S, Hawkes S, Nwanyanwu O, Lewis DA. Impact of episodic therapy on genital ulcer duration and HIV shedding from herpetic ulcers among men in South Africa. Late-breaker oral presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Radebe F, Black V, Myers M, Pillay C, Lewis DA. A study to determine the aetiology of symptomatic and asymptomatic urethritis in an inner-city region of Johannesburg, South Africa. Poster presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29-August 1, 2007.

Radebe F, Odinsen O, Parker D, Lewis DA. Early detection of HIV-1 specific lymphocyte derived antibodies in a high risk population. Poster presentation at the 17th Meeting of the International Society for STD Research and 10th World Congress of the International Society against STIs, Seattle, July 29 August 1, 2007.

Virology Division

Basson AE, Ntsala M, Martinson N, Tiale E, Corrigan GE, Shao X, Gray G, McIntyre J, Puren A, Morris L. Development of phenotypic HIV-1 drug resistance following exposure to single dose nevirapine. Poster No. TUPEB108. International AIDS Society (IAS) Conference on HIV Pathogenesis, Treatment and Prevention, Sydney, Australia July 22-25, 2007.

Besselaar TG, Botha L, McAnerney J. Phylogenetic analysis of influenza viruses circulating in South Africa during 2006-2007. Abstract P804, Options for the Control of Influenza V1, Toronto, Canada, June 17-23 June, 2007. Poster presentation.

Besselaar TG. Regional Preparedness of Africa for Avian Influenza. The WHO Directors Meeting of the National Influenza Centres on Strengthening the WHO Global Influenza Network, Toronto, Canada, June 15-16, 2007. Oral presentation. Personal invitation.

Binley J, Crooks ET, Moore PL, Jiang P, de Vries R, Shrestha D, Zhu P, Franti M, Cayan C, Wiley CL, Zharkikh I, Schulke N, Marx P, Roux KH, Montefiori DC, Burton DR and Apetrei C. Immunogenicity of HIV virus like particles bearing various forms of env proteins in guinea pigs and macaques. Abstract OA06-01 AIDS Vaccine 2007 Meeting, Seattle, USA, August 20-23 2007.

Binley J, Wrin T, Pantophlet R, Phung P, Crooks E, Lapedes A, Taylor N, Korber B, Chappay C, Moore PL,

Cavacini LA, Stiegler G, Kunert R, Katinger C, Petropoulos C, Richman D, Morris L, Sutthent R, and Burton DR. Cross-clade Neutralization Analysis of Plasmas from Clade B, C and CRF01_AE HIV-infected Donors. Abstract 116 Keystone Symposia on HIV Vaccines, Whistler Resort, Whistler, British Columbia, Canada, March 25-30, 2007.

Davis KL, Bibollet-Ruche F, Li H, Decker JM, Hahn BH, Shaw GM, Gary E and Morris L. Cross clade reactivity of HIV-1 V3-specific neutralizing antibodies. Abstract P10-17. AIDS Vaccine 2007 Meeting, Seattle, USA, August 20-23, 2007.

Donninger S, Meddows-Taylor S, Gray GE, Kuhn L, Tiemessen CT. Reduced proportion of CCL3L1 to CCL3 mRNA in HIV-1 infected individuals. Keystone Symposium: Molecular and Cellular Determinants of HIV Pathogenesis, Whistler, British Columbia, Canada, March 25-30, 2007.

Gray E, Moore P, Choge IA, Decker M, Bibollet-Ruche F, Li H, Leseke N, Treurnicht F, Mlisana K, Shaw GM, Haynes BF, Abdool Karim SA, Williamson C, Morris L and the CAPRISA 002 Study Team. Neutralizing antibody responses in acute HIV-1 subtype C infection. Abstract 209, Keystone Symposia on HIV Vaccines, Whistler Resort, Whistler, British Columbia, Canada, March 25-30, 2007.

Gray E, Taylor N, Moore PL, Langan M, Choge IA, Cave E, Puren A, Shaw G and Morris L. Mapping the specificities of antibodies in broadly cross-reactive plasma from HIV-1 subtype C infected blood donors. Abstract 4-3 Center for HIV/AIDS Vaccine Immunology (CHAVI) 3rd Annual Retreat in Durham, North Carolina, USA, September 30-October 3, 2007.

Gray ES, Taylor N, Moore PL, Choge I, Cave E, Puren A, Shaw G and Morris L. HIV-1 subtype C Infected Plasma Samples with Broad Specificity Contain Anti-MPER Antibodies. Abstract P10-19. AIDS Vaccine 2007 Meeting, Seattle, USA, August 20-23, 2007.

Jiang P, Richman D, Shrestha D, de Vries R, Moore PL, Robinson J, Crooks E and Binley J. Mapping the Specificity of Neutralizing HIV Immune Plasma. Abstract OA01-01 AIDS Vaccine 2007 Meeting, Seattle, USA, August 20-23, 2007.

Kassaye S, Pillay V, Ledwaba J, Dalai S, Zijenah L, Kadzirange G, Musingwini G, Morris L, Katzenstein D. Pre-HAART Drug Resistance Mutations in Subtype C HIV-1 in Zimbabwe. Abstract 644. The 14th Conference on Retroviruses and Opportunistic Infections (CROI), Los Angeles, USA, February 25-28, 2007.

Ledwaba J, Pillay V, Dalai S, Kassaye S, Zijenah L, Kadzirange G, Muccheche M, Loubser S, Morris L and Katzenstein D. Detection of drug resistance by population sequencing and allele specific PCR for K103N after nevirapine-based HAART in Subtype C

HIV-1 in Zimbabwe. Abstract 643. The 14th Conference on Retroviruses and Opportunistic Infections (CROI), Los Angeles, USA, February 25-28, 2007.

Lentsoane O. Challenges with the new ITD algorithm. Oral presentation. Joint Annual Workshop for Measles/Yellow Fever and Polio Lab Networks, Ghana, 27 July-1 August 2007.

Mawela A. Molecular epidemiology of wild polio virus in AFRO - 2006. Oral presentation. Joint Annual Workshop for Measles/Yellow Fever and Polio Lab Networks, Ghana, 27 July-1 August 2007.

Mawela A. A laboratory perspective on the new testing algorithm: The impact of and the comparison between old and new testing algorithm. Oral presentation. EPI meeting for combined Eastern and Southern Region of Africa, Harare, 14-16 March 2007.

Mawela A. Molecular analysis of the polio virus importations and transmission in the African region. Oral presentation. 13th Annual Global meeting for polio eradication, Geneva, 28-29 June 2007.

Mayne E, Suchard M, Eastham V, Shalekoff S, Donninger S, Scott L, Vallet L, Mayne A, Duse A, Stevens W, Tiemessen CT, Gray C. Characterisation of Regulatory T cells in Human Immunodeficiency Virus (HIV) and Tuberculosis (TB) Infected Adults in South Africa. Keystone Symposium: Molecular and Cellular Determinants of HIV Pathogenesis, Whistler, British Columbia, Canada, March 25-30, 2007.

Moore PL, Choge IA, Gray ES, Ranchobe N, Mlisana K, Abdool Karim SS, Williamson C and Morris L. Role of anti-V1V2 antibodies in autologous neutralization of acute HIV-1 subtype C viruses. Abstract OA07-05 AIDS Vaccine 2007 Meeting, Seattle, USA, August 20-23 2007.

Moore PL, Gray ES, Choge IA, Ranchobe N, Mlisana K, Abdool Karim SS, Williamson C and Morris L. Specificity of the early autologous neutralizing antibody response in HIV-1 subtype C infection. Abstract 4-4 Center for HIV/AIDS Vaccine Immunology (CHAVI) 3rd Annual Retreat in Durham, North Carolina, USA, September 30-October 3, 2007.

Morris L. Drug Resistance following First-Line ART. Invited discussant on the Poster Discussion Session. The 14th Conference on Retroviruses and Opportunistic Infections (CROI) in Los Angeles, USA February 25-28, 2007.

Morris L. Co-chair Oral Abstract Session: B Cell Immunity. Round Table Discussion: Defining the Specificities in Broadly Neutralizing Sera. Rapporteur: (i) B Cell Immunity; (ii) Acute HIV infection; (iii) Mucosal Immunity; (iv) Neutralization and B Cell Response. AIDS Vaccine 2007 Meeting, Seattle, USA, August 20-23, 2007.

Morris L. Oral presentation: Standardisation of HIV Neutralisation Assays for use in Vaccine Research and Clinical Trials. NeutNet-WHO Workshop in Milan, Italy from 15-18 March 2007.

Morris L. Oral presentation: Neutralizing antibody responses in acute HIV-1 subtype C infection. African International Conference on Immunity (AICI), Victoria Falls, Zimbabwe, 27-29 May 2007.

Naidoo D, Besselaar TG. The 2007 influenza season in South Africa. International Symposium on Avian Influenza: Epidemiologic, Basic and Applied Research meeting, New Delhi, India, October 29-31, 2007. Oral presentation.

Paweska JT & Swanepoel R: a) Epidemiology of Rift Valley fever; b) African bats as natural reservoir for SARS-coronavirus; c) High prevalence of IgG antibodies to Ebola virus in Pygmy population in Watsa region, DR Congo; d) Optical fiber immunosensor for the detection of IgG antibody to Rift Valley fever virus; e) Epidemiology and laboratory diagnosed cases of Crimean-Congo haemorrhagic fever in Southern Africa; f) Monitoring of IgG and IgM responses in patients infected with Crimean-Congo haemorrhagic fever virus; g) Recombinant ELISA for the detection of antibody to Rift Valley fever virus in humans; h) Rift Valley fever virus surveillance in Kenyan wildlife; i) An alphavirus replicon derived candidate vaccine against Rift Valley fever virus. International Meeting on Emerging Diseases and Surveillance, Vienna, Austria, 23-25 February 2007. Poster presentations.

Paweska JT. Validation aspects of ELISA for serodiagnosis of Rift Valley fever. Second Research Coordination meeting on Veterinary Surveillance of Rift Valley fever, Nairobi, Kenya, 5-9 March 2007. Oral presentation.

Paweska JT. Past and future role in research and diagnosis of viral haemorrhagic fevers in Africa with special reference to Rift Valley fever and Crimean-Congo haemorrhagic fever. Cost Action B28 meeting on Array Technologies for BSL3 and BSL4 Pathogens, Plovdiv, Bulgaria. 20-22 April 2007. Oral presentation.

Paweska JT. Viral haemorrhagic fevers in Africa with special reference to the Marburg outbreak in Angola, 2005. Biological Defense Conference, Munich, Germany, 17-18 October 2007. Oral presentation.

Paximadis M, Schramm D, Donninger S, Meddows-Taylor S, Gray GE, Sherman GG, Coovadia AH, Kuhn L, Tiemessen CT. Single nucleotide polymorphism and haplotype characterization of the CCL3 and CCL3-L1 genes and investigation of a unique CCL3 haplotype with respect to mother-to-infant HIV transmission. Keystone Symposium: Molecular and Cellular Determinants of HIV Pathogenesis, Whistler, British Columbia, Canada, March 25-30, 2007.

Pillay V, Ledwaba J, Hunt G, Rakgotho M, Singh B, Makubalo L, Puren A and Morris L. Antiretroviral Drug Resistance among Drug-naïve HIV-1. Recently Infected Individuals in South Africa. Abstract 640 The 14th Conference on Retroviruses and Opportunistic Infections (CROI), Los Angeles, USA, February 25-28, 2007.

Pillay V. Oral presentation: Antiretroviral drug resistance among drug-naïve HIV-1 infected individuals in South Africa. Coordination meeting on Project RAF/6/029 - Initiatives in HIV-1 Molecular Epidemiology and Immunology in support of the UNAIDS-WHO Africa Vaccine Programme in Addis Ababa, Ethiopia from March 5-7, 2007.

Smit SB. Progress report of NICD Measles Regional Reference Laboratory. WHO-AFRO Measles/Yellow Fever Laboratory Director's Meeting, Accra, Ghana, 24-26 July, 2007. Oral presentation.

Smit SB. Characterization of viruses identified in the African Region and challenges in improving surveillance in South Africa. The Fifth Global Measles and Rubella WHO Laboratory Network Meeting, Geneva, Switzerland, 26-28 September, 2007. Oral presentation.

Swanepoel R. Viral haemorrhagic fevers and other hazardous infections of human importance: need for increased engagement of animal health scientists. Oral presentation. Wellcome Trust Conference on Animal Health Research: Recent Developments and Future Directions, Hinxton, Cambridge, England, 24-26 January 2007.

Swanepoel R. Crimean-Congo haemorrhagic fever and Rift Valley fever. Oral presentation. 5th International Conference on Emerging Zoonoses, Limassol, Cyprus, 18 November 2007.

Swanepoel R. Thread of African viral haemorrhagic fevers to Indian Ocean Islands. Oral presentation. Scientific Meeting on Chikungunya and other Related Emerging Arboviruses, Reunion Island, 3-4 December 2007.

Epidemiology Division

Archer BN, Crisp N, Tetteh C. Outbreak of wide spread pharyngitis within rural communities of the !Kheis municipality, Northern Cape, South Africa, March-May 2007. Poster presentation. The Fourth African Regional TEPHINET and Second AFENET Scientific Conference, 3-7 December 2007 in Kampala, Uganda.

Huma M, Khuzwayo L, Mnyaluza J. Evaluating the Acute Flaccid Paralysis Surveillance System in Gauteng Province, South Africa, October 2006-April 2007. Poster presentation. The Fourth African

Regional TEPHINET and Second AFENET Scientific Conference, 3-7 December 2007 in Kampala, Uganda.

J McAnerney, L Blumberg, T Besselaar, C Cohen. Active Influenza Surveillance in South Africa. International Meeting on Emerging Infections and Surveillance, Vienna, Austria, 23-25 February 2007 (poster presentation).

Jacobs CA, Tetteh C, Cameron N. Is our Diarrhoeal Surveillance System effective? An evaluation of the Diarrhoeal Surveillance System in the Western Cape, 2006. Poster presentation. The Fourth African Regional TEPHINET and Second AFENET Scientific Conference, 3-7 December 2007 in Kampala, Uganda.

Khumalo DL, Govender N, Quan V, Prentice E. Evaluation of Laboratory Surveillance for AIDS Defining Opportunistic fungal infection in selected sites, South Africa, 2006. Poster presentation. The Fourth African Regional TEPHINET and Second AFENET Scientific Conference, 3-7 December 2007 in Kampala, Uganda.

Nkosi D, Gouws A, Morgan B. Evaluation of the Acute Flaccid Paralysis Surveillance System in Mpumalanga Province, South Africa, March to May 2007. Oral presentation. The Fourth African Regional TEPHINET and Second AFENET Scientific Conference, 3-7 December 2007 in Kampala, Uganda.

Wongama F, Dlamini T, Maimela E. Evaluation of Rabies Surveillance System in Eastern Cape, South Africa, April 2007. Oral presentation. The Fourth African Regional TEPHINET and Second AFENET Scientific Conference, 3-7 December 2007 in Kampala, Uganda.

Zondo PCB, Govender N, Quan V, Keddy K, Prentice E. Evaluation of Laboratory-based surveillance system for Shigella in selected sites-South Africa, 2006. Poster presentation. The Fourth African Regional TEPHINET and Second AFENET Scientific Conference, 3-7 December 2007 in Kampala, Uganda.