

## Research Report

Paediatrics and Child Health: 2014

### Journal Articles (subsidised)

**ACKERMANN C, ANDRONIKOU S, LAUGHTON B, KIDD M, DOBBELS E, INNES S, VAN TOORN R, COTTON M.** White matter signal abnormalities in children with suspected HIV-related neurologic disease on early combination antiretroviral therapy. *Pediatric Infectious Disease Journal* 2014; **33**(8) : e207-e212.

**ANDRONIKOU S, ACKERMANN C, LAUGHTON B, COTTON M, TOMAZOS N, SPOTTISWOODE B, MAUFF K, PETTIFOR JM.** Correlating brain volume and callosal thickness with clinical and laboratory indicators of disease severity in children with HIV-related brain disease. *Childs Nervous System* 2014; **30** : 1549-1557.

**ANDRONIKOU S, VAN WYK MJ, GOUSSARD PL, GIE RP.** Left Main Bronchus Compression as a Result of Tuberculous Lymphnode Compression of the Right-Sided Airways With Right Lung Volume Loss in Children. *Pediatric Pulmonology* 2014; **49** : 263-268.

**AYLES H, FLOYD S, BEYERS N, GODFREY-FAUSSETT P.** Design of pragmatic trials of tuberculosis interventions - authors' reply. *Lancet* 2014; **383** : 214-215.

**BASTOS ML, HUSSAIN H, WEYER K, GARCIA-GARCIA ML, LEIMANE V, LEUNG CC, NARITA M, PENA J, PONCE-DE-LEON A, SEUNG KJ, SHEAN K, SIFUENTES-OSORNIO J, VAN DER WALT M, VAN DER WERF TS, YEW WW, MENZIES D, ET AL, SCHAAP HS.** Treatment outcomes of patients with multidrug- and extensive drug-resistant tuberculosis according to drug susceptibility testing to first- and second-line drugs: an individual patient data meta-analysis. *Clinical Infectious Diseases* 2014; **59**(10) : 1364-1374.

**BEKKER A, SCHAAP HS, SEIFART HI, DRAPER HR, WEREY CJ, COTTON MF, HESSELING AC.** Pharmacokinetics of isoniazid in low-birth-weight and premature infants. *Antimicrobial Agents and Chemotherapy* 2014; **58**(4) : 2229-2234.

**BEKKER A, SLOGROVE A, SCHAAP HS, DU PREEZ K, HESSELING AC.** Determinants of tuberculosis treatment completion among newborns in a high-burden setting. *International Journal of Tuberculosis and Lung Disease* 2014; **18**(3) : 335-340.

**BEYERS N.** Nulda Beyers: speaking up for children with tuberculosis. *Lancet* 2014; **383** : 1031.

**BLOK N, VISSER DH, SOLOMONS R, VAN ELSLAND SL, DEN HERTOOG AL, VAN FURTH AM.** Lipoarabinomannan enzyme-linked immunosorbent assay for early diagnosis of childhood tuberculous meningitis. *International Journal of Tuberculosis and Lung Disease* 2014; **18**(2) : 205-210.

**BOCK P, BEYERS N, FIDLER SJ.** Balancing the need to rapidly scale-up and improve clinical outcomes in antiretroviral programmes in developing countries: lessons from an Indian programmatic cohort study. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 2014; **108**(10) : 599-600.

**CHURCHYARD G, MAMETJA LD, MVUSI L, NDJEKA N, HESSELING AC, REID AJ, BABATUNDE S, PILLAY Y.** Tuberculosis control in South Africa: Successes, challenges and recommendations. *SAMJ South African Medical Journal* 2014; **104**(3) : 244-248.

**CORI A, AYLES H, BEYERS N, SCHAAP A, FLOYD S, SABAPATHY K, EATON JW, HAUCK K, SMITH P, GRIFFITH S, MOORE A, DONNELL D, VERMUND SH, FIDLER SJ, HAYES R, FRASER C.** HPTN 071 (PopART): A Cluster-Randomized Trial of the Population Impact of an HIV Combination Prevention Intervention Including Universal Testing and Treatment: Mathematical Model. *PLoS ONE* 2014; **9**(1) : e84511.

**COTTON MF, CASSIM H, PAVIA-RUZ N, GARGES HP, PERGER T, FORD SL, WIRE MB, GIVENS N, ROSS LL, LOU Y, SIEVERS J, CHENG K.** Pharmacokinetics, Safety and Antiviral Activity of Fosamprenavir/Ritonavir-containing Regimens in HIV-infected Children Aged 4 Weeks to 2 Years—48-week Study Data. *Pediatric Infectious Disease Journal* 2014; **33**(1) : 57-62.

**COTTON MF, SLOGROVE A, RABIE H.** Infections in HIV-exposed uninfected children with focus on Sub-Saharan Africa. *Pediatric Infectious Disease Journal* 2014; **33**(10) : 1085-1086.

**DAVIDSON A, WAINWRIGHT L, STONES DK, KRUGER M, HENDRICKS M, GEEL J, POOLE J, REYNDERS D, OMAR F, MATHEW R, STEFAN DC.** Malignancies in South African Children with HIV. *Journal of Pediatric Hematology Oncology* 2014; **36**(2) : 111-117.

**DAVIES M-A, MAY M, BOLTON-MOORE C, CHIMBETETE C, ELEY B, GARONE D, GIDDY J, MOULTRIE H, NDIRANGU J, PHIRI S, RABIE H, TECHNAU K, WOOD R, BOULLE A, EGGER M, KEISER O.** Prognosis of Children With HIV-1 Infection Starting Antiretroviral Therapy in Southern Africa. A Collaborative Analysis of Treatment Programs. *Pediatric Infectious Disease Journal* 2014; **33**(6) : 608-616.

**DE KOCK L, SY SKB, ROSENKRANZ B, DIACON AH, PRESCOTT K, HERNANDEZ KR, YU M, DERENDORF H, DONALD PR.** Pharmacokinetics of *para*-Aminosalicylic acid in HIV-uninfected and HIV-coinfected tuberculosis patients receiving antiretroviral therapy, managed for multidrug-resistant and extensively drug-resistant tuberculosis. *Antimicrobial Agents and Chemotherapy* 2014; **58**(10) : 6242-6250.

**DE WAAL R, KROON SM, HOLGATE SL, HORN A, TOOKE LJ, NORMAN J, SMITH P, BLOCKMAN M, COTTON MF, MCILLERON H, COHEN K.** Nevirapine Concentrations in Preterm and Low Birth Weight HIV-Exposed. *Pediatric Infectious Disease Journal* 2014; **33**(12) : 1231-1233.

**DHANASEKARAN S, JENUM S, STAVRUM R, RITZ C, KENNETH J, VAZ M, DOHERTY TM, GREWAL HMS, HESSELING AC.** Concordant or discordant results by the tuberculin skin test and the quantiFERON-TB test in children reflect immune biomarker profiles. *Genes and Immunity* 2014; **15**(5) : 265-274.

**DHANASEKARAN S, JENUM S, STAVRUM R, WIKER HG, KENNETH J, VAZ M, DOHERTY TM, GREWAL HMS, HESSELING AC.** Effect of non-tuberculous Mycobacteria on host biomarkers potentially relevant for tuberculosis management. *PLoS Neglected Tropical Diseases* 2014; **8**(10) : e3243.

**DIACON AH, DONALD PR.** The early bactericidal activity of antituberculosis drugs. *Expert Review of Anti-Infective Therapy* 2014; **12**(2) : 223-237.

**DIACON AH, VAN DER MERWE L, DEMERS A, VON GROOTE-BIDLINGMAIER F, VENTER A, DONALD PR.** Time to positivity in liquid culture predicts colony forming unit counts of Mycobacterium tuberculosis in sputum specimens. *Tuberculosis* 2014; **94** : 148-151.

**DIACON AH, VAN DER MERWE L, DEMERS A-M, VON GROOTE-BIDLINGMAIER F, VENTER A, DONALD PR.** Pre-treatment mycobacterial sputum load influences individual on-treatment measurements. *Tuberculosis* 2014; **94** : 690-694.

**DIACON AH, VON GROOTE-BIDLINGMAIER F, DONALD PR.** Delamanid, a new 6-nitro-2,3-dihydroimidazo[2,1-b]oxazole for the management of tuberculosis resistant to at least isoniazid and rifampicin. *Expert Opinion on Orphan Drugs* 2014; **2**(1) : 87-94.

**DONALD PR.** The North American contribution to our knowledge of childhood tuberculosis and its epidemiology. *International Journal of Tuberculosis and Lung Disease* 2014; **18**(8) : 890-898.

**DU TOIT E, VAN SCHALKWYK C, DUNBAR R, JENNINGS K, YANG B, COETZEE D, BEYERS N.** Missed Opportunities for Retention in Pre-ART Care in Cape Town, South Africa. *PLoS ONE* 2014; **9**(5) : 1-6.

**ENARSON PM, GIE RP, MWANSAMBO C, MAGANGA E, LOMBARD CJ, ENARSON DA, GRAHAM SM.** Reducing Deaths from Severe Pneumonia in Children in Malawi by Improving Delivery of Pneumonia Case Management. *PLoS ONE* 2014; **9**(7) : e102955.

**ESPOSITO S, D'AMBROSIO L, TADOLINI M, SCHAAF HS, LUNA JC, MARAIS BJ, CENTIS R, DARA M, MATTEELLI A, BLASI F, MIGLIORI GB.** ERS/WHO Tuberculosis Consilium assistance with extensively drug-resistant tuberculosis management in a child: case study of compassionate delamanid use. *European Respiratory Journal* 2014; **44**(3) : 811-815.

**FEUCHT UD, MEYER A, KRUGER M.** Missing HIV prevention opportunities in South African children - A 7-year review. *BMC Public Health* 2014; **14** : 1265.

**FEUCHT UD, ROSSOUW T, VAN DYK G, FORSYTH BWC, KRUGER M.** Consequences of Prior Use of Full-dose Ritonavir as Single Protease Inhibitor as Part of Combination Antiretroviral Regimens on the Future Therapy Choices in HIV-1-Infected Children. *Pediatric Infectious Disease Journal* 2014; **33**(2) : e53-e59.

**FORD N, SHUBBER Z, JAO J, ABRAMS EJ, FRIGATI L, MOFENSON L.** Safety of Cotrimoxazole in Pregnancy: A Systematic Review and Meta-Analysis. *JAIDS-Journal of Acquired Immune Deficiency Syndromes* 2014; **66**(5) : 512-521.

**FORTUNY C, DUICULESCU D, CHENG K, GARGES HP, COTTON MF, TAMANNAI M, FORD SL, WIRE MB, GIVENS N, ROSS LL, LOU Y, PERGER T, SIEVERS J.** Pharmacokinetics and 48-week Safety and Antiviral Activity of Fosamprenavir-containing Regimens in HIV-infected 2- to 18-year-old Children. *Pediatric Infectious Disease Journal* 2014; **33**(1) : 50-56.

**FRANCK C, SEDDON JA, HESSELING AC, SCHAAF HS, SKINNER D, REYNOLDS L.** Assessing the impact of multidrug-resistant tuberculosis in children: an exploratory qualitative study. *BMC Infectious Diseases* 2014; **14** : 426.

**FRIGATI L, COTTON MF, RABIE H.** Antiretroviral therapy for the management of HIV in children. *SAMJ South African Medical Journal* 2014; **104**(12) : 898-901.

**FRIGATI L, VAN DER MERWE JP, HARVEY J, RABIE H, THERON GB, COTTON MF.** A retrospective review of group B streptococcal infection in the Mero East area of the Western Cape province: 2010 to 2011. *Southern African Journal of Epidemiology and Infection* 2014; **29** : 33-36.

**GARCIA-PRATS AJ, DONALD PR, SCHAAF HS.** In reply: Acquired drug-resistance during inadequate therapy in a young child with tuberculosis. *Pediatric Infectious Disease Journal* 2014; **33**(11) : 1205-1206.

**GARCIA-PRATS AJ, ROSE PC, HESSELING AC, SCHAAF HS.** Linezolid for the treatment of drug-resistant tuberculosis in children: A review and recommendations. *Tuberculosis* 2014; **94** : 93-104.

**GARCIA-PRATS AJ, WILLEMSE M, SEIFART HI, JORDAAN AM, WERELY CJ, DONALD PR, SCHAAF HS.** Acquired drug resistance during inadequate therapy in a young child with tuberculosis. *Pediatric Infectious Disease Journal* 2014; **33**(8) : 883-885.

**GARCIA-PRATS AJ, ZIMRI K, MRAMBA Z, SCHAAF HS, HESSELING AC.** Children exposed to multidrug-resistant tuberculosis at a homebased day care centre: a contact investigation. *International Journal of Tuberculosis and Lung Disease* 2014; **18**(11) : 1292-1298.

**GOUSSARD PL, GIE RP.** The role of bronchoscopy in the diagnosis and management of pediatric pulmonary tuberculosis. *Expert Review of Respiratory Medicine* 2014; **8**(1) : 101-109.

**GRAHAM SM, DONALD PR.** Death and disability: the outcomes of tuberculous meningitis. *Lancet Infectious Diseases* 2014; **14**(10) : 902-904.

**GRAY DM, WORKMAN L, LOMBARD CJ, JENNINGS T, INNES S, GROBBELAAR CJ, COTTON MF, ZAR HJ.** Isoniazid preventive therapy in HIV-infected children on antiretroviral therapy: a pilot study. *International Journal of Tuberculosis and Lung Disease* 2014; **18**(3) : 322-327.

**HAYES R, AYLES H, BEYERS N, SABAPATHY K, FLOYD S, SHANAUBE K, BOCK P, GRIFFITH S, MOORE A, WATSON-JONES D, FRASER C, VERMUND SH, FIDLER SJ, HORN L.** HPTN 071 (PopART): Rationale and design of a cluster-randomised trial of the population impact of an HIV combination prevention intervention including universal testing and treatment – a study protocol for a cluster randomised trial. *Trials* 2014; **15** : 57.

**HENDRICKS H, KIRSTEN G F, VOSS M, CONRADIE H.** Is continuous positive airway pressure a feasible treatment modality for neonates with respiratory distress syndrome in a rural district hospital?. *Journal of Tropical Pediatrics* 2014; **60**(5) : 348-351.

**INNES S, LAZARUS E, OTWOMBE K, LIBERTY A, GERMANUS R, VAN RENSBURG AJ, GROBBELAAR N, HURTER T, ELEY B, VIOLARI A, COTTON MF.** Early severe HIV disease precedes early antiretroviral therapy in infants: Are we too late?. *Journal of the International Aids Society* 2014; **17** : 18914.

**IRVING B, GOUSSARD PL, ANDRONIKOU S, GIE RP, DOUGLAS T, TODD-POKROPEK A, TAYLOR P.** Computer assisted detection of abnormal airway variation in CT scans related to Paediatric Tuberculosis. *Medical Image Analysis* 2014; **18** : 963-976.

**JENUM S, GREWAL HMS, HOKEY DA, KENNETH J, VAZ M, DOHERTY TM, JAHNSEN F, HESSELING AC.** The frequencies of IFN $\gamma$ +IL2+TNF $\alpha$ + PPD-specific CD4+CD45RO+ T-cells correlate with the magnitude of the QuantiFERON $\text{\textcircled{R}}$  gold in-tube response in a prospective study of healthy indian adolescents. *PLoS ONE* 2014; **9**(7) : e101224.

**JENUM S, SELVAM S, MAHELAI D, JESURAJ N, CARDENAS V, KENNETH J, HESSELING AC, DOHERTY TM, VAZ M, GREWAL HMS.** Influence of Age and Nutritional Status on the Performance of the Tuberculin Skin Test and QuantiFERON $\text{\textcircled{R}}$ -TB Gold In-Tube in Young Children Evaluated for Tuberculosis in Southern India. *Pediatric Infectious Disease Journal* 2014; **33**(10) : e260-e269.

**KAPLAN R, CALDWELL J, BEKKER L-G, JENNINGS K, LOMBARD CJ, ENARSON DA, WOOD R, BEYERS N.** Integration of TB and ART services fails to improve TB treatment outcomes: Comparison of ART/TB primary healthcare services in Cape Town, South Africa. *SAMJ South African Medical Journal* 2014; **104**(3) : 204-209.

**KAUFMANN SHE, COTTON MF, EISELE B, GENGENBACHER M, GRODE L, HESSELING AC, WALZL G.** The BCG replacement vaccine VPM1002: from drawing board to clinical trial. *Expert Review of Vaccines* 2014; **13**(5) : 619-630.

**KHANDELWAL D, GUPTA N, MUKHERJEE A, LODHA R, SINGH V, GREWAL HMS, BHATNAGAR S, SINGH S, KABRA SK, HESSELING AC.** Vitamin D levels in Indian children with intrathoracic tuberculosis. *Indian Journal of Medical Research* 2014; **140**(4) : 531-537.

**KIBLEUR Y, BROCHART H, SCHAAF HS, DIACON AH, DONALD PR.** Dose regimen of Para-Aminosalicylic Acid Gastro-Resistant Formulation (PAS-GR) in multidrug-resistant Tuberculosis. *Clinical Drug Investigation* 2014; **34** : 269-276.

**KIDZERU EB, HESSELING AC, PASSMORE J-A, MYER L, GAMIELDIEN H, TCHAKOUTE CT, GRAY CM, SODORA DL, JASPAN HB.** In-utero exposure to maternal HIV infection alters T-cell immune responses to vaccination in HIV-uninfected infants. *Aids* 2014; **28**(10) : 1421-1430.

**KLING S.** Danger at the Frontier: Social Media and Ethics. *Current Allergy & Clinical Immunology* 2014; **27**(3) : 196-199.

**KLING S.** Ethics and Allergy Practice. *Current Allergy & Clinical Immunology* 2014; **27**(4) : 268-270.

**KLING S.** Is it OK to accept gifts from my patient?. *Current Allergy & Clinical Immunology* 2014; **27**(4) : 318-321.

**KRUGER M, HENDRICKS M, DAVIDSON A, STEFAN DC, VAN EYSEN AL, UYS R, VAN ZYL A, HESSELING PB.** Childhood Cancer in Africa. *Pediatric Blood & Cancer* 2014; **61** : 587-592.

**KRUGER M, REYNDERS D, OMAR F, SCHOEMAN J, WEDI O, HARVEY J.** Retinoblastoma Outcome at a Single Institution in South Africa. *SAMJ South African Medical Journal* 2014; **104** : 859-863.

**KRUGER M, STEFAN DC, UYS P, VAN ZYL A, HESSELING PB, HENDRICKS M, DAVIDSON A, VAN EYSEN AL.** Childhood Cancer in Africa (Letter to the Editor). *Pediatric Blood & Cancer* 2014; **61** : 1525.

**KUMAR RS, KUMAR AMV, CLAASSENS M, BANUREKHA VV, SEKAR G, VENKATESAN P, SWAMINATHAN S.** Are we justified in treating for multidrug-resistant tuberculosis based on positive follow-up smear results?. *International Journal of Tuberculosis and Lung Disease* 2014; **18**(4) : 449-453.

**LANGERAK NG, DU TOIT J, BURGER M, COTTON M, SPRINGER P E , LAUGHTON B.** Spastic diplegia in children with HIV encephalopathy: first description of gait and physical status. *Developmental Medicine and Child Neurology* 2014; **56**(7) : 686-694.

**LINDSEY JC, HUGHES MD, VIOLARI A, ESHLEMAN SH, ABRAMS EJ, BWAKURA-DANGAREMBIZI M, BARLOW-MOSHA L, KAMTHUNZI P, SAMBO PM, COTTON MF, MOULTRIE H, KHADSE S, SCHIMANA W, BOBAT R, ZIMMER B, PETZOLD E, MOFENSON LM, JEAN-PHILIPPE P, PALUMBO P.** Predictors of virologic and clinical response to nevirapine versus lopinavir/ritonavir-based antiretroviral therapy in young children with and without prior nevirapine exposure for the prevention of mother-to-child HIV transmission. *Pediatric Infectious Disease Journal* 2014; **33**(8) : 846-854.

**LODHA R, MUKHERJEE A, SINGH V, SINGH S, FRIIS H, FAURHOLT-JEPSEN D, BHATNAGAR S, SAINI S, KABRA SK, GREWAL HMS, HESSELING AC.** Effect of micronutrient supplementation on treatment outcomes in children with intrathoracic tuberculosis: a randomized controlled trial. *American Journal of Clinical Nutrition* 2014; **100**(5) : 1287-1297.

**MARAIS BJ, SCHAAF HS, GRAHAM SM.** Child health and tuberculosis. *Lancet* 2014; **2**(4) : 254-256.

**MARAIS BJ, SCHAAF HS.** Tuberculosis in Children. *Cold Spring Harbor Perspectives in Medicine* 2014; **4**(9) : a017855.

**MARX FM, DUNBAR R, ENARSON DA, WILLIAMS G, WARREN RM, VAN DER SPUY GD, VAN HELDEN PD, BEYERS N.** The temporal dynamics of relapse and reinfection tuberculosis after successful treatment: a retrospective cohort study. *Clinical Infectious Diseases* 2014; **58**(12) : 1676-1683.

**MEEHAN S-A, NAIDOO P, CLAASSENS M, LOMBARD CJ, BEYERS N.** Characteristics of clients who access mobile compared to clinic HIV counselling and testing services: a matched study from Cape Town, South Africa. *BMC Health Services Research* 2014; **14**(1) : 658.

**MORKEL G, BEKKER A, MARAIS BJ, KIRSTEN GF, VAN WYK J, DRAMOWSKI A.** Bloodstream infections and antimicrobial resistance patterns in a South African neonatal intensive care unit. *Paediatrics and International Child Health* 2014; **34**(2) : 108-114.

**MUKHERJEE A, SAINI S, KABRA SK, GUPTA N, SINGH V, SINGH S, BHATNAGAR S, SAINI D, GREWAL HMS, LODHA R, HESSELING AC.** Effect of micronutrient deficiency on QuantiFERON-TB Gold In-Tube test and tuberculin skin test in diagnosis of childhood intrathoracic tuberculosis. *European Journal of Clinical Nutrition* 2014; **68**(1) : 38-42.

**NAIDOO P, DU TOIT E, DUNBAR R, LOMBARD CJ, CALDWELL J, DETJEN AK, BERTEL SQUIRE S, ENARSON DA, BEYERS N.** A Comparison of Multidrug-Resistant Tuberculosis Treatment Commencement Times in MDRTBPlus Line Probe Assay and XpertH MTB/RIF-Based Algorithms in a Routine Operational Setting in Cape Town. *PLoS ONE* 2014; **9**(7) : e103328.

**NARANBHAI V, KIM S, FLETCHER H, COTTON MF, VIOLARI A, MITCHELL C, NACHMAN S, MCSHERRY G, MCSHERRY G, HILL A, MADHI S.** 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 Medicine* 2014; **12** : 120.

**NDEBELE P, WASSENAAR D, BENATAR S, FLEISCHER T, KRUGER M, ADEBAMOWO C, KASS N, HYDER AA, MESLIN EM.** Research Ethics Capacity Building in Sub-Saharan Africa: A Review of NIH Fogarty-Funded Programs 2000–2012. *Journal of Empirical Research on Human Research Ethics* 2014; **9**(2) : 24-40.

**OKWUNDU CI, UTHMAN OA, SMITH J.** Transcutaneous screening for hyperbilirubinemia in neonates (Protocol). *Cochrane Database of Systematic Reviews* 2014; **4** : 1-8.

**PITCHER R, LOMBARD C, COTTON M, BENINGFIELD S, ZAR HJ.** Clinical and immunological correlates of chest X-ray abnormalities in HIV-infected South African children with limited access to anti-retroviral therapy. *Pediatric Pulmonology* 2014; **49** : 581-588.

**REICHMAN B, SCHAAF HS, PONTALI E, MIGLIORI GB.** A new paradigm for multidrug-resistant tuberculosis?. *International Journal of Tuberculosis and Lung Disease* 2014; **18**(8) : 884.

**REIKIE BA, ADAMS RCM, LELIGDOWICZ A, HO K, NAIDOO S, RUCK CE, DE BEER C, PREISER W, COTTON MF, SPEERT DP, ESSER M, KOLLMANN TR.** Altered Innate Immune Development in HIV-Exposed Uninfected Infants. *JAIDS-Journal of Acquired Immune Deficiency Syndromes* 2014; **66**(3) : 245-255.

**ROHNER E, VALERI F, MASKEW M, PROZESKY HW, RABIE H, GARONE D, DICKINSON D, CHIMBETETE C, LUMANO-MULENGA P, SIKAZWE I, WYSS N, CLOUGH-GORR K, EGGER M, CHI BH, BOHLIUS J.** Incidence rate of Kaposi Sarcoma in HIV-infected patients on antiretroviral therapy in Southern Africa: A prospective multicohort study. *JAIDS-Journal of Acquired Immune Deficiency Syndromes* 2014; **67**(5) : 547-554.

**SATTAR S, VAN SCHALKWYK C, CLAASSENS M, DUNBAR R, FLOYD S, ENARSON DA, GODFREY-FAUSSETT P.** Symptom reporting among prevalent tuberculosis cases who

smoke, are HIV-positive or have hyperglycaemia. *\*\*MISSING JOURNAL\*\** 2014; **4**(4) : 222-225.

**SCHAAF HS, GARCIA-PRATS AJ, HESSELING AC, SEDDON JA.** Managing multidrug-resistant tuberculosis in children: review of recent developments. *Current Opinion in Infectious Diseases* 2014; **27** : 211-219.

**SCHAAF HS, HESSELING AC, RAUTENBACH C, SEDDON JA.** Trends in childhood drug-resistant tuberculosis in South Africa: a window into the wider epidemic?. *International Journal of Tuberculosis and Lung Disease* 2014; **18**(7) : 770-773.

**SEDDON JA, GARCIA-PRATS AJ, KAMPMANN B, SCHAAF HS, HESSELING AC.** Toxicity and Tolerability of Fluoroquinolonebased Preventive Therapy for Childhood Contacts of Multidrug-resistant Tuberculosis. *Pediatric Infectious Disease Journal* 2014; **33**(10) : 1098-1099.

**SEDDON JA, HESSELING AC, GODFREY-FAUSSETT P, SCHAAF HS.** High treatment success in children treated for multidrug-resistant tuberculosis: an observational cohort study. *Thorax* 2014; **69** : 471-477.

**SEDDON JA, PADAYACHEE T, DU PLESSIS AM, GOUSSARD P, SCHAAF HS, LOMBARD C, GIE R.** Teaching chest X-ray reading for child tuberculosis suspects. *International Journal of Tuberculosis and Lung Disease* 2014; **18**(7) : 763-769.

**SHAH SK, PERSAUD D, WENDLER DS, TAYLOR HA, GAY H, KRUGER M, GRADY C.** Research into a functional cure for HIV in neonates: the need for ethical foresight. *Lancet Infectious Diseases* 2014; **14**(9) : 893-898.

**SIMANI OE, IZU A, VIOLARI A, COTTON MF, VAN NIEKERK N, ADRIAN P, MADHI SA.** Effect of HIV-1 exposure and antiretroviral treatment strategies in HIV-infected children on immunogenicity of vaccines during infancy. *Aids* 2014; **28** : 531-541.

**SIMBIRI K, BIDDLE J, KINYERA T, WERE PA, TENGE C, KAWIRA E, MASALU N, SUMBA PO, LAWLER-HEAVNER J, STEFAN DC, BUONAGURO FM, ROBINSON D, NEWTON R, HARFORD J, BHATIA K, MBULAITEYE SM.** Burkitt Lymphoma Research in East Africa: Highlights from the 9th African Organization for Research and Training in Cancer Conference held in Durban, South Africa in 2013. *Infectious Agents and Cancer* 2014; **9** : 32.

**SOLOMONS R, VISSER DH, FRIEDRICH SO, DIACON AH, HOEK KGP, MARAIS BJ, SCHOEMAN JF, VAN FURTH AM.** Improved diagnosis of childhood tuberculous meningitis using more than one nucleic acid amplification test. *International Journal of Tuberculosis and Lung Disease* 2014; **19**(1) : 74-80.

**SOLOMONS R, WESSELS M, VISSER DH, DONALD PR, MARAIS BJ, SCHOEMAN JF, VAN FURTH AM.** Uniform research case definition criteria differentiate tuberculous and bacterial meningitis in children. *Clinical Infectious Diseases* 2014; **59**(11) : 1574-1578.

**SOLOMONS RS, VAN ELSLAND SL, VISSER DH, HOEK KGP, MARAIS BJ, SCHOEMAN JF, VAN FURTH AM.** Commercial nucleic acid amplification tests in tuberculous meningitis - a meta-analysis. *Diagnostic Microbiology and Infectious Disease* 2014; **78**(2014) : 398-403.

**STEFAN DC, LUTCHMAN R.** Burkitt lymphoma: epidemiological features and survival in a South African centre. *Infectious Agents and Cancer* 2014; **9** : 19.

**STEFAN DC, STONES DK, VAN ZYL A, UYS R.** The cost of nephroblastoma treatment in South Africa: A very cost-effective investment with guidelines for the rest of Africa. *South African Journal of Child Health* 2014; **8**(4) : 128-132.

**STEFAN DC.** Effect of HIV infection on the outcome of cancer therapy in children. *Lancet Oncology* 2014; **15** : e562-567.

**STONES DK, DE BRUIN G, ESTERHUIZEN TM, STEFAN DC.** Childhood cancer survival rates in two South African units. *SAMJ South African Medical Journal* 2014; **104**(7) : 501-504.

**SY SKB, INNES S, DERENDORF H, COTTON MF, ROSENKRANZ B.** Estimation of intracellular concentration of Stavudine Triphosphate in HIV-infected children given a reduced dose of 0.5 milligrams per kilogram twice daily. *Antimicrobial Agents and Chemotherapy* 2014; **58**(2) : 1084-1091.

**TECHNAU K, SCHOMAKER M, KUHN L, MOULTRIE H, COOVADIA A, ELEY B, RABIE H, WOOD R, COX H, VIZCAYA LS, MUCHIRI E, DAVIES M-A.** Virologic Response in Children

Treated With Abacavir compared With Stavudine-based Antiretroviral Treatment. A South African Multi-Cohort Analysis. *Pediatric Infectious Disease Journal* 2014; **33**(6) : 617-622.

**THEE S, GARCIA-PRATS AJ, MCILLERON H, WIESNER L, CASTEL S, NORMAN J, DRAPER HR, VAN DER MERWE P-L, HESSELING AC, SCHAAF HS.** Pharmacokinetics of ofloxacin and levofloxacin for prevention and treatment of multidrug-resistant tuberculosis in children. *Antimicrobial Agents and Chemotherapy* 2014; **58**(5) : 2948-2951.

**VAN NIEKERK E, AUTRAN CA, NEL DG, KIRSTEN GF, BLAAUW R, BODE L.** Human Milk Oligosaccharides Differ between HIV-Infected and HIV-Uninfected Mothers and Are Related to Necrotizing Enterocolitis Incidence in Their Preterm Very-Low-Birth-Weight Infants 1–3. *Journal of Nutrition* 2014; **144**(8) : 1227-1233.

**VAN NIEKERK E, BLAAUW R, KIRSTEN GF.** The role of human milk oligosaccharides in preventing necrotising enterocolitis and human immunodeficiency virus transmission. *South African Journal of Clinical Nutrition* 2014; **27**(2) : 51-55.

**VAN NIEKERK E, KIRSTEN GF, NEL DG, BLAAUW R.** Probiotics, feeding tolerance, and growth: A comparison between HIV-exposed and unexposed very low birth weight infants. *Nutrition* 2014; **30**(6) : 645-653.

**VAN TOORN R, SCHAAF HS, LAUBSCHER JA, VAN ELSLAND SL, DONALD PR, SCHOEMAN JF.** Short Intensified Treatment in Children with Drug-susceptible Tuberculous Meningitis. *Pediatric Infectious Disease Journal* 2014; **33**(3) : 248-252.

**VAN TOORN R, SCHAAF HS, SCHOEMAN JF.** In reply: Short Intensified Treatment in Children with Drug-susceptible Tuberculous Meningitis. *Pediatric Infectious Disease Journal* 2014; **33**(9) : 993-994.

**VAN TOORN R, SCHAAF HS, SOLOMONS R, LAUBSCHER JA, SCHOEMAN JF.** The value of transcranial Doppler imaging in children with tuberculous meningitis. *Childs Nervous System* 2014; **30**(10) : 1711-1716.

**VAN TOORN R, SOLOMONS R.** Update on the diagnosis and management of tuberculous meningitis in children. *Seminars in Pediatric Neurology* 2014; **21**(1) : 12-18.

**VON BIBRA M, ROSENKRANZ B, PRETORIUS E, RABIE H, EDSON C, LENKER U, COTTON M, KLINKER H.** Are lopinavir and efavirenz serum concentrations in HIV-infected children in the therapeutic range in clinical practice?. *Paediatrics and International Child Health* 2014; **34**(2) : 138-141.

**WALTERS E, DUVENHAGE J, DRAPER HR, HESSELING AC, VAN WYK SS, COTTON MF, RABIE H.** Severe manifestations of extrapulmonary tuberculosis in HIV-infected children initiating antiretroviral therapy before 2 years of age. *Archives of Disease in Childhood* 2014; **99**(11) : 998-1003.

**WALTERS E, GOUSSARD PL, BOSCH C, HESSELING AC, GIE RP.** GeneXpert MTB/RIF on bronchoalveolar lavage samples in children with suspected complicated intrathoracic tuberculosis: A pilot study. *Pediatric Pulmonology* 2014; **49**(11) : 1133-1137.

**WILLIAMS JR, SPRUMONT D, HIRTLE M, ADEBAMOWO C, BRAUNSCHWEIGER P, BULL S, BURRI C, CZARKOWSKI M, TE FAN C, FRANCK C, GEFENAS E, GEISSBUHLER A, KLINGMANN I, KOUYATÉ B, KRAEHEBHUL J-P, KRUGER M, MOODLEY K, NTOUMI F, NYIRENDA T, PYM A, SILVERMAN H, TENORIO .** Consensus standards for introductory e-learning courses in human participants research ethics. *Journal of Medical Ethics* 2014; **40**(6) : 426-428.

**ZÖLLNER EW, LOMBARD CJ, GALAL U, HOUGH S, IRUSEN E, WEINBERG E.** Screening for hypothalamic-pituitary-adrenal axis suppression (HPAS) in asthmatic children is not possible when employing clinical and biochemical parameters. *Current Allergy & Clinical Immunology* 2014; **27**(3) : 236-237.

**ZÖLLNER EW.** Effects of corticosteroids on adrenal function in children with asthma. *Current Allergy & Clinical Immunology* 2014; **27**(4) : 189-192.

**ZVADA ZP, DENTI P, DONALD PR, SCHAAF HS, THEE S, SEDDON JA, SEIFART HI, SMITH PJ, MCILLERON H, SIMONSSON USH.** Population pharmacokinetics of rifampicin, pyrazinamide and isoniazid in children with tuberculosis: in silico evaluation of currently recommended doses. *Journal of Antimicrobial Chemotherapy* 2014; **69**(5) : 1339-1349.

#### Journal Articles (NON-subsidised)

**BEKKER A, GOUSSARD PL, GIE RP, ANDRONIKOU S.** Congenital anterior mediastinal teratoma causing severe airway compression in a neonate. *BMC Case Reports* 2013; **26 September** : 201205.

**BRAND S, DRAPER HR, ENARSON DA, BEYERS N, CLAASSENS M.** Factors influencing increased expertise for a sustainable workforce at a research centre in South Africa. *Public Health Action* 2014; **4(4)** : 276-280.

**DRAMOWSKI A, FRIGATI L, RABIE H, COTTON MF.** Malaria in Children Prevention and Management. *Infectious Disorders - Drug Targets* 2013; **13** : 303-311.

**GOUSSARD PL, ANDRONIKOU S, SEMAKULA-KATENDE NS, GIE RP.** Calcification and airway stenosis in a child with chondrodysplasia calcificans punctate. doi:10.1136/bcr-2014-205087 . *BMJ Case Reports* 2014; **22 September** : 205087.

**GOUSSARD PL, GIE RP, ANDRONIKOU S, FOURIE PB.** A correctable cause of lung collapse in an adolescent with severe scoliosis causing compression of the bronchial tree. . *BMJ Case Reports* 2013; **15 November** : 202017.

**GOUSSARD PL, GIE RP, ANDRONIKOU S, MORRISON J.** Organic foreign body causing lung collapse and bronchopleural fistula with empyema. doi:10.1136/bcr-2014-204633 . *BMJ Case Reports* 2014; **4 April** : 204633.

**GOUSSARD PL, GIE RP, JANSON J, SCHUBERT PT.** Intratracheal inflammatory myofibroblastic tumour mimicking severe acute asthma. *BMC Case Reports* 2013; **4 July** : 010232.

**GOUSSARD PL, GIE RP, RABIE H, ANDRONIKOU S.** Nocardia pneumonia in an HIV-infected neonate presenting as acute necrotising pneumonia. *BMC Case Reports* 2013; **31 July** : 010479.

**GOUSSARD PL.** The radiological evaluation of childhood tuberculosis. *Paediatric Focus* 2014; **5(1)** : 6-8.

**HEUNIS JC, KIGOZI NG, VAN DER MERWE S, CHIKOBVU P, BEYERS N.** Sex-related trends in non-conversion of new smear-positive tuberculosis patients in the Free State, South Africa. *Public Health Action* 2014; **4(1)** : 66-71.

**KAGUTHI G, NDUBA V, NYOKABI J, ONCHIRI F, GIE RP, BORGDORFF MW.** Chest Radiographs for Pediatric TB Diagnosis: Interrater Agreement and Utility. *Interdisciplinary Perspectives on Infectious Diseases* 2014; **291841** : 1-8.

**KASS N, CHURCHYARD G, AYLES H, BEYERS N, GODFREY-FAUSSETT P, CHAISSON RE.** Applying Ethical Principles to International Community-Based Research: A Case Study from the Consortium to Respond Effectively to the AIDS-TB Epidemic (CREATE). *IRB Ethics and Human Research* 2014; **36(3)** : 1-8.

**MASON S, MOUTLOATSE GP, VAN FURTH AM, SOLOMONS R, VAN REENEN M, REINECKE C, KOEKEMOER G.** KEMREP: A New Qualitative Method for the Assessment of an Analyst's Ability to Generate a Metabolomics Data Matrix by Gas Chromatography–Mass Spectrometry. *Current Metabolomics* 2014; **2(1)** : 15-26.

**MORSHEIMER MM, DRAMOWSKI A, RABIE H, COTTON MF.** Paediatric ART outcomes in a decentralised model of care in Cape Town, South Africa. *South African Journal of HIV Medicine* 2014; **15(4)** : 148-153.

**NAIDOO P, WILLS C, ENARSON DA, BEYERS N.** How do we measure the success of operational research?. *Public Health Action* 2014; **4(2)** : 74.

**PICKEN SC, WILLIAMS S, HARVEY J, ESSER M.** The routine paediatric human immunodeficiency virus visit as an intervention opportunity for failed maternal care, and use of point-of-care CD4 testing as an adjunct in determining antiretroviral therapy eligibility. *South African Journal of Infectious Diseases* 2014; **29** : 70-74.

**ROHNER E, VALERI F, MASKEW M, PROZESKY HW, RABIE H, GARONE D, DICKINSON D, CHIMBETETE C, LUNA-FINEMAN S, SIKAZWE I, WYSS N, CLOUGH-GORR KM, EGGER M, CHI BH, BOHLIUS J.** Incidence Rate of Kaposi Sarcoma in HIV-Infected Patients on Antiretroviral Therapy in Southern Africa: A Prospective Multicohort Study. *Journal of Acquired Immune Deficiency Syndrome* 2014; **67(5)** : 547-554.

**SCHAAF HS.** Multi-drug resistant tuberculosis in children. *Paediatric Focus* 2014; **5(1)** : 8-10.

**SEDDON JA, GODFREY-FAUSSETT P, HESSELING AC, SCHAAF HS, ENARSON DA.** Preventive therapy for children following contact with a tuberculosis source case: cause for debate in a high-burden setting?. *Southern African Journal of Infectious Diseases* 2014; **29**(3): 120-124.

**STEFAN DC, KRUGER M.** Incidence of childhood cancer in Namibia: the need for registries in Africa. *Pan African Medical Journal* 2014; **17** : 191.

**STEFAN DC.** Childhood cancer in Africa: Past, Present, and Future. *Journal of African Cancer* 2014; **6**(3) : 127-128.

**VISSER JH, UYS R, VAN ZYL A, STEFAN DC.** Nephroblastoma - A 25-year review of a South African unit. *Journal of Medicine and Life* 2014; **7**(3) : 445-449.

Proceedings National

**WILLIAMS CKO, STEFAN DC, RAWLINSON F, SIMBIRI K, MBULAITEYE SM.** *The African Organisation for Research and Training in Cancer and its conferences: a historical perspective and highlights of the Ninth International Conference, Durban, South Africa, 21–24 November 2013.* Ninth International Conference, Durban, South Africa, ECancer 2014: 396.

### Books

**M KRUGER, P NDEBELE, L HORN,** Editors: *Research Ethics in Africa. A Resource for Research Ethics Committees.* Sun Media Publishers, July 2014: 206 pp.

**GIE RP, BEYERS N.** *Getting Started in Clinical Research: Guidance for junior researchers.* Sun Media, Stellenbosch 2014:155 pp.

### Chapters in Books

**BALAGADDE-KAMBUGU J, OREM J, STEFAN DC.** HIV and malignancy in children. In *Pediatric Hematology-Oncology in Countries with Limited Resources*, Springer, New York, USA, 2014: 377-391.

**COTTON MF, KROON SM, RABIE H.** HIV in pregnancy: diagnostic and therapeutic implications for the newborn. In *ERS - Monograph - Pulmonary complication of HIV*, European Respiratory Society, Sheffield, United Kingdom, 2014: 71-83.

**COTTON MF, SCHAAF HS, RABIE H, MARAIS BJ.** Tuberculosis. In *Coovadia's Paediatrics & Child Health*, Oxford University Press, Goodwood, South Africa, 2014: 354-378.

**GIE RP.** Respiratory disorders. In *Coovadia's Paediatrics and Child Health*, Oxford University Press, Goodwood, South Africa, 2014: 537-563.

**KRUGER M, KLING S.** Ethical issues in Paediatrics. In *Coovadia's Paediatrics and Child Health*, Oxford University Press, Goodwood, South Africa, 2014: 795-800.

**KRUGER M.** Neoplastic disorders. In *Coovadia's Paediatrics and Child Health*, Oxford University Press, Goodwood, South Africa, 2014: 468-482.

**MURGUIA-PENICHE T, KIRSTEN GF.** Meeting the challenge of providing neonatal nutritional care to very or extremely low birth weight infants in low-resource settings. In *Nutritional Care of Preterm Infants – Scientific basis and practical guidelines*, Karger, Basel, Switzerland, 2014: 278-296.

**NEL ED, COOKE ML, GODDARD EA.** Gastrointestinal disorders. In *Coovadia's Paediatrics and Child Health*, Oxford University Press, Goodwood, South Africa, 2014: 510-536.

**SCHOEMAN JF, VAN TOORN R.** Tuberculosis. In *Central Nervous System Infections in Childhood*, Mac Keith Press, London, United Kingdom, 2014: 202-218.

**STEFAN DC.** Childhood Cancer in Low-income and middle-income countries in the twenty-first century. In *Pediatric Hematology-Oncology in Countries with Limited Resources*, Springer, New York, USA, 2014: 1-5.

**STEFAN DC.** Clinical trials. In *Handbook for Cancer Research in Africa*, World Health Organization Regional office for Africa, Republic of Congo, Congo, 2014: 117-127.

**STEFAN DC.** Developing and maintaining effective North-South, South-South and South-South-North partnerships. In *Handbook for Cancer Research in Africa*, World Health Organization regional office for Africa, Republic of Congo, Congo, 2014: 15-22.

**STEFAN DC.** Malignancies in children with HIV infection. In *Cancers in People with HIV and AIDS*, Springer, Bethesda, USA, 2014: 349-357.