

BIostatistics Unit: RESEARCH OUTPUTS 2009

1. PUBLICATIONS

1.1 INDEXED JOURNALS - INTERNATIONAL (FIRST AUTHOR)

1. **Manda S.** A nonparametric frailty model for clustered survival data. *Communications in Statistics: Methods and Theory: Accepted.*
2. **Manda SO,** Feltbower RG, Gilthorpe MS. Investigating spatial-temporal similarities in the epidemiology of childhood leukaemia and diabetes. *Eur J Epidemiol.* 2009;24(12):743-52.

1.2 INDEXED JOURNALS - INTERNATIONAL (CO-AUTHOR)

1. McCollum AGH, Gardener GJM, Evans WG, **Becker PJ.** Soft-Tissue Changes related to Mandibular Advancement Surgery. *Seminars in Orthodontics.* 2009. Vol. 15, No 3.
2. McCollum AGH, Dancaster JT, Evans WG, **Becker PJ.** Sagittal Soft-Tissue Changes Related to the Surgical Correction of Maxillary-Deficient Class III Malocclusions. *Seminars in Orthodontics.* 2009. Vol. 15, No 3.
3. Ksiezycycki-Ostoya BK, McCollum AGH, **Becker PJ.** Sagittal Soft-Tissue Changes of the Lower Lip and Chin Associated with Surgical Maxillary Impaction and Consequent Mandibular Autorotation. *Seminars in Orthodontics.* 2009. Vol. 15, No 3.
4. Smith FJ, van Schalkwyk R, **Becker PJ.** Head Size and Body Mass in Infants With Hydrocephalus. *J Neurosurg Anesthesiol.* 2010 Jan;22(1):80-1.
5. Oettlé AC, **Becker PJ,** de Villiers E, Steyn M. The influence of age, sex, population group, and dentition on the mandibular angle as measured on a South African sample. *Am J Phys Anthropol.* 2009 Feb 23;139(4):505-511.
6. Bernstein PL, Jacobson BF, Connor MD, **Becker PJ.** Aspirin resistance in South African Caucasian patients with thrombotic cerebrovascular events. *J Neurol Sci.* 2009 Feb 15;277(1-2):80-2.
7. Fanucchi G, Stewart A, Jordaan R, **Becker P.** School-based specific exercise programme reduced the prevalence and intensity of low back pain in 12 – 13 year old children: a randomised controlled trial. *Aust J Physiother.* 2009;55(2):97-104.

8. Patel VB, Bhigjee AI, Paruk HF, Singh R, Meldau R, **Connolly C**, Ndung'u T, Dheda K. Utility of a novel lipoarabinomannan assay for the diagnosis of tuberculous meningitis in a resource-poor high-HIV prevalence setting. *Cerebrospinal Fluid Res.* 2009 Nov 2;6:13.
9. Bagratee JS, Regan L, Khullar V, **Connolly C**, Moodley J. Reference Intervals of the Gestational Sac, Yolk Sac and Embryo Volume using three dimensional ultrasound. *Ultrasound Obstet Gynecol.* 2009 Nov;34(5):503-9.
10. Moodley M, Budhram S, **Connolly C**. Profile of mortality among women with gestational trophoblastic disease infected with the human immunodeficiency virus (HIV): argument for a new poor prognostic factor. *Int J Gynecol Cancer.* 2009 Mar-Apr;19(2):289-93.
11. Marais S, Evans R, **Jordaan E**. The effect of Brief Interventions on the drinking behavior of pregnant women in a high risk rural South African community – a cluster randomized trial. *Early Child Development and Care.* Accepted.
12. Odendaal W, van Niekerk A, **Jordaan E**, Seedat M. The impact of a home visitation programme on household hazards associated with unintentional childhood injuries: a randomised controlled trial. *Accid Anal Prev.* 2009 Jan;41(1):183-90.
13. van Niekerk A, **Laubscher R**, Laflamme L. Demographic and circumstantial accounts of burn mortality in Cape Town, South Africa, 2001-2004: An observational register based study. *BMC Public Health* 2009, 9:374.
14. Prinsloo M, **Laubscher R**, Neethling I, Bradshaw D. Fatal violence among children under-15 years in 4 cities of South Africa, 2001-2005. *Bulletin of the World Health Organization.* BLT/2008/059782. Accepted.
15. Schneider M, Bradshaw D, Steyn K, Norman R, **Laubscher R**. Poverty and non-communicable diseases in South Africa. *Scand J Public Health.* 2009 Mar;37(2):176-86.
16. Bourne DE, Thompson M, Brody LL, Cotton M, Draper B, **Laubscher R**, Abdullah MF, Myers JE. Emergence of a peak in early infant mortality due to HIV/AIDS in South Africa. *AIDS.* 2009 Jan 2;23(1):101-6.
17. Dyer S, **Lombard C**, Van der Spuy Z. Psychological distress among men suffering from couple infertility in South Africa: a quantitative assessment. *Hum Reprod.* 2009 Nov;24(11):2821-6.
18. Hesselting AC, Walzl G, Enarson DA, Carroll NM, Duncan K, Lukey PT, **Lombard C**, Donald PR, Lawrence KA, Gie RP, van Helden PD, Beyers N. Baseline sputum time to detection predicts month 2 culture conversion and recurrence in HIV-uninfected patients. *IJTL.* Accepted.

19. Bachmann M, Van Der Merwe S , Zwarenstein M, **Lombard C** , Fairall L , Timmerman V , Bateman E . Effects on tuberculosis outcomes of educational outreach to South African clinics during two randomised trials. *Int J TB and Lung Disease*. *Accepted*.
20. Petersen Z , Everett K , **Lombard C**, Emmelin M and Steyn K. Smoking-related behaviour: practices of pregnant women. *African Journal of Midwifery & Women's Health*. *Accepted*.
21. Whati L, Senekal M, Steyn NP, **Lombard C**, Nel J. Development of a performance-rating scale for a nutrition knowledge test developed for adolescents. *Public Health Nutr*. 2009 Oct;12(10):1839-45.
22. Dyer RA, Reed AR, van Dyk D, Arcache MJ, Hodges O, **Lombard CJ**, Greenwood J, James MF. Hemodynamic Effects of Ephedrine, Phenylephrine, and the Coadministration of Phenylephrine with Oxytocin during Spinal Anesthesia for Elective Cesarean Delivery. *Anesthesiology* 2009; 111:753–65.
23. Gray D, Nuttall J, **Lombard C**, Davies MA, Workman L, Apolles P, Eley B, Cotton M, Zar H. Low Rates of Hepatotoxicity in HIV-infected Children on Anti-retroviral Therapy with and Without Isoniazid Prophylaxis. *J Trop Pediatr*. 2009 Aug 26. [Epub ahead of print]
24. Mathews S, Abrahams N, Jewkes R, Martin LJ, **Lombard C**, Vetten L. Injury Patterns of Female Homicide Victims in South Africa. *The Jnl of Trauma Injury, Infection and Critical Care*, Vol. 67, No 1, July 2009.
25. Dyer S, **Lombard C**, Van der Spuy Z. Psychological distress among men suffering from couple infertility in South Africa: a quantitative assessment. *Hum Reprod*. 2009 Nov;24(11):2821-6.
26. Webb EA, Hesselning AC, Schaaf HS, Gie RP, **Lombard CJ**, Spitaels A, Delpont S, Marais BJ, Donald K, Hindmarsh P, Beyers N. High prevalence of Mycobacterium tuberculosis infection and disease in children and adolescents with type 1 diabetes mellitus. *Int J Tuberc Lung Dis*. 2009 Jul;13(7):868-874.
27. Crombie D, **Lombard C**, Noakes T. Emotional Intelligence Scores Predict Team Sports Performance in a National Cricket Competition. *International Journal of Sports Science & Coaching* Volume 4 • Number 2 • 2009.
28. Oxman AD, **Lombard C**, Treweek S, Gagnier JJ, Maclure M, Zwarenstein M. A pragmatic resolution. *J Clin Epidemiol*. 2009 May;62(5):495-8.
29. Oxman AD, **Lombard C**, Treweek S, Gagnier JJ, Maclure M, Zwarenstein M. Why we will remain pragmatists: four problems with the impractical mechanistic framework and a better solution. *J Clin Epidemiol*. 2009 May;62(5):485-8.

30. Mathews S, Abrahams N, Jewkes R, Martin LJ, **Lombard C**. Alcohol use and its role in female homicides in the Western Cape, South Africa. *J Stud Alcohol Drugs*. 2009 May;70(3):321-7.
31. Siebert T, Kruger T, **Lombard C**. Evaluating the equivalence of clomiphene citrate with and without metformin in ovulation induction in PCOS patients. *J Assist Reprod Genet*. 2009 Apr;26(4):165-71.
32. Gilreath TD, King G, Graham JW, Flisher AJ, **Lombard C**. Associations between maternal closeness, suicidal ideation, and risk behaviors in Cape Town. *Eur Child Adolesc Psychiatry*. 2009 Mar;18(3):174-9.
33. Chikobvu P, **Lombard CJ**, Flisher AJ, King G, Townsend L, Muller M. Bias in a binary risk behaviour model subject to inconsistent reports and dropout in a South African high school cohort study. *Stat Med*. 2009 Feb 1;28(3):494-509.
34. Kritzinger FE, den Boon S, Verver S, Enarson DA, **Lombard CJ**, Borgdorff MW, Gie RP, Beyers N. No decrease in annual risk of tuberculosis infection in endemic area in Cape Town, South Africa. *Trop Med Int Health*. 2009 Feb;14(2):136-42.
35. Morojele NK, London L, **Olorunju SA**, Matjila MJ, Davids AS, Rendall-Mkosi KM. Predictors of Risk of alcohol-exposed pregnancies among women in an urban and rural area of South Africa. *Soc Sci Med*. 2010 Feb;70(4):534-542.
36. Zeegers I, Rabie H, **Swanevelder S**, Edson C, Cotton M, van Toorn R. Attention Deficit Hyperactivity and Oppositional Defiance Disorder in HIV-Infected South African Children. *J Trop Pediatr*. 2009 Aug 5. [Epub ahead of print]
37. Dalton A, Wolmarans P, Witthuhn RC, van Stuijvenberg ME, **Swanevelder SA**, Smuts CM. A randomised control trial in schoolchildren showed improvement in cognitive function after consuming a bread spread, containing fish flour from a marine source. *Prostaglandins Leukot Essent Fatty Acids*. 2009 Feb-Mar; 80(2-3):143-9.
38. Abel S, De Kock M, van Schalkwyk DJ, **Swanevelder S**, Kew M.C, Gelderblom W.C.A. Altered lipid profile, oxidative status and hepatitis B virus interactions in human hepatocellular carcinoma. *Prostaglandins, Leukotrienes and Essential Fatty Acids* 81 (2009) 391–399.
39. Springer P, **Swanevelder S**, van Toorn R, van Rensburg AJ, Schoeman J. Cerebral infarction and neurodevelopmental outcome in childhood tuberculous meningitis. *Eur J Paediatr Neurol*. 2009 Jul;13(4):343-9.

40. Marnewick JL, Van der Westhuizen FH, Joubert E, **Swanevelder S**, Swart P, Gelderblom WCA. Chemoprotective properties of rooibos (*Aspalathus linearis*), honeybush (*Cyclopia intermedia*) herbal and green and black (*Camellia sinensis*) teas against cancer promotion induced by Fumonisin B1 in rat liver. *Food Chem Toxicol.* 2009 Jan;47(1):220-9.
41. Savitz J, **van der Merwe L**, Newman TK, Stein DJ, Ramesar R. Catechol-o-Methyltransferase Genotype and Childhood Trauma May Interact to Impact Schizotypal Personality Traits. *Behav Genet.* 2009 Dec 22. [Epub ahead of print]
42. Chatterjee K, Engelmark M, Gyllensten U, Dandara C, **van der Merwe L**, **Galal U**, Hoffman M, Williamson AL. Fas and FasL gene polymorphisms are not associated with cervical cancer but differ among Black and Mixed-ancestry South Africans. *BMC Res Notes.* 2009 Nov 26;2(1):238.
43. Heradien M, Revera M, **van der Merwe L**, Goosen A, Corfield VA, Brink PA, Mayosi BM, Moolman-Smook JC. Abnormal blood pressure response to exercise occurs more frequently in hypertrophic cardiomyopathy patients with the R92W troponin T mutation than in those with myosin mutations. *Heart Rhythm.* 2009 Nov;6(11 Suppl):S18-24.
44. Keyser RJ, **van der Merwe L**, Venter M, Kinnear C, Warnich L, Carr J, Barden S. Identification of a novel functional deletion variant in the 5'-UTR of the DJ-1 gene. *BMC Med Genet.* 2009 Oct 13;10(1):105.
45. van Zyl GU, **van der Merwe L**, Claassen M, Cotton MF, Rabie H, Prozesky HW, Preiser W. Protease Inhibitor Resistance in South African Children With Virologic Failure. *Pediatr Infect Dis J.* 2009 Dec;28(12):1125-7.
46. Micklesfield LK, Norris SA, **van der Merwe L**, Lambert EV, Beck T, Pettifor JM. Comparison of Site-Specific Bone Mass Indices in South African Children of Different Ethnic Groups. *Calcif Tissue Int.* 2009 Oct;85(4):317-25.
47. Raleigh SM, **van der Merwe L**, Ribbans WJ, Smith RK, Schwellnus MP, Collins M. Variants within the MMP3 gene are associated with Achilles tendinopathy: possible interaction with the COL5A1 gene. *Br J Sports Med.* 2009 Jul;43(7):514-20.
48. September AV, Cook J, Handley CJ, **van der Merwe L**, Schwellnus MP, Collins M. Variants within the COL5A1 gene are associated with achilles tendinopathy in two populations. *Br J Sports Med.* 2009 May;43(5):357-65.
49. Collins M, Mokone GG, September AV, **van der Merwe L**, Schwellnus MP. The COL5A1 genotype is associated with range of motion measurements. *Scand J Med Sci Sports.* 2009 Apr 14. [Epub ahead of print]

50. Savitz J, **van der Merwe L**, Stein DJ, Solms M, Ramesar R. Neuropsychological status of bipolar I disorder: impact of psychosis. *Br J Psychiatry*. 2009 Mar;194(3):243-51.
51. Vivier J, Bardien S, **Van der Merwe L**, Brusnicky J, Zaharie D, Keyser R, Hewlett R, de Jong G, Hartszenberg B. A study of meningiomas in South Africa: Investigating a correlation between clinical presentation, histopathology and genetic markers. *Br J Neurosurg*. 2009 Feb;23(1):63-70.
52. Bardien S, Human H, Harris T, Hefke G, Veikondis R, Schaaf HS, **van der Merwe L**, Greinwald JH, Fagan J, de Jong G. A rapid method for detection of five known mutations associated with aminoglycoside-induced deafness. *BMC Med Genet*. 2009 Jan 13;10:2.

1.3 INDEXED JOURNALS - NATIONAL (FIRST AUTHOR)

1. **Becker PJ**, Wolvardt JS, Hennessy A, Maree C. A Composite score for a measuring instrument utilizing re-scaled likert values and item weight from matrices of pair-wise ratios. *Hlth SA Gesondheid* 2009; 14(1).

1.4 INDEXED JOURNALS - NATIONAL (CO-AUTHOR)

1. Mathee A, Harpham T, Barnes B, Swart A, Naidoo S, De Wet T, **Becker P**. Inequity in poverty: the emerging public health challenge in Johannesburg. *Development Southern Africa Vol. 26, No. 5, December 2009*.
2. R Masekela, T Moodley, N Mahlaba, D F Wittenberg, **P Becker**, O Kitchin, R J Green. Atopy in HIV-infected children in Pretoria. *November 2009, Vol. 99, No. 11 SAMJ*.
3. Pretorius E, Oberholzer HM, **Becker PJ**, Pretorius et al. Comparing the Cytotoxic Potential of Withania Somnifera Water and Methanol Extracts. *Afr. J. Trad. CAM (2009) 6 (3): 275 – 280*.
4. Potgieter N, **Becker PJ**, Ehlers MM. Evaluation of the CDC safe water-storage intervention to improve the microbiological quality of point-of-use drinking water in rural communities in South Africa. *Water SA Vol.35 No.4 July 2009*.
5. Lack ML, Bruce J, **Becker PJ**. Weighting of items in a tutorial performance evaluation instrument: Statistical analysis and results. *Health SA Gesondheid, Vol 14, No 1(2009)*.
6. Lawrie D, Coetzee LM, **Becker P**, Mahlangu J, Stevens W, Glencross DK. Local reference ranges for full blood count and CD4 lymphocyte count testing. *S Afr Med J*. 2009 Apr;99(4):243-8.

7. Cronjé L, Paterson AC, **Becker PJ**. Colorectal cancer in South Africa: a heritable cause suspected in many young black patients. *S Afr Med J* 2009; 99(2): 103-106.
8. Otwombe KN, Kirton A, **Galal U**. Intention-to-Treat Analysis in the SA E-Publications. *South African Family Practice, Vol 51, No 1 - January/February 2009*.
9. Peer N, Bradshaw D, **Laubscher R**, Steyn K. Trends in adult tobacco use from two South African demographic and health surveys conducted in 1998 and 2003. *SAMJ. 2009 Oct; 99(10):744-49*.
10. Wolmarans P, Kunneke E, **Laubscher R**. Use of the South African Food Composition Database System (SAFOODS) and its products in assessing dietary intake data: Part II. *S Afr J Clin Nutr* 2009;22(2).
11. Janse van Rensburg ABR, **Olorunju SAS**. Diagnosis and treatment of Schizophrenia in an acute 72-hour assessment unit. *African Journal of Psychiatry. Accepted*.
12. Mamabolo MV, Mudzi W, Stewart AS, **Olorunju SAS**, Singh A. A study to determine post discharge functional improvements in patients with stroke. *SA Jnl of Occ Therapy, Vol 39, No 1, May 2009*.

1.5 NON-INDEXED PUBLICATIONS

1.6 PUBLICATIONS – ACKNOWLEDGEMENTS

2. CONGRESS PAPERS

2.1 INVITED PLENARY PRESENTATIONS – INTERNATIONAL

Delport R, Bornman MS, Aneck-Hahn NH, de Jager C, **Becker PJ**, Macintyre U. Endocrine-disrupting effects of DDT in relation to homocysteine metabolism. 7th International Conference on Homocysteine Metabolism. Prague, Czech Republic. 21-25 June 2009. International Platform Presentation.

2.2 INTERNATIONAL PAPER AND POSTER PRESENTATIONS

40th Union World Conference on Lung Health on 6 December 2009 in Cancun Mexico. Engaging community members in integrated TB/HIV and infection control activities. M Nonkunzi, H Hausler, R Grant, B Fortuin, S Atkins, S Lewin, **E Jordaan**, W Odendaal, J Soomar, V Azevedo, J Caldwell, C McDermid, M Poolman. Oral presentation.

The 57th Session of the International Statistical Institute, Aug 16-22, 2009 - Durban. Item response Theory and the development of a rating scale for nonverbal communication. **Esme Jordaan**, Dana Niehaus. Oral presentation.

5th IAS (International AIDS society) Conference on HIV Pathogenesis, Treatment and Prevention Cape Town, 19-22 July 2009. An evaluation of a new tuberculosis treatment support programme: Implications for integrating TB and HIV/AIDS treatment programmes. Salla Atkins, Simon Lewin, **Esme Jordaan**, Karin Ringsberg, Anna Thorson Poster presentation.

The 57th Session of the International Statistical Institute, Aug 16-22, 2009 - Durban. Locally D-optimal designs for a dose-response model with two explanatory variables. **Gaetan Kabera**, Dr P Ndlovu, Prof L Haines. Oral presentation.

The 57th Session of the International Statistical Institute, Aug 16-22, 2009 - Durban. Galton revisited: detecting heritability. **U Galal**, L van der Merwe. Oral presentation.

IUSSP 2009 Conference, Marrakech, Morocco, 27 September – 2 October 2009. "Rapid surveillance of AIDS mortality in South Africa "has been scheduled to be presented in Session 50: " The AIDS Epidemic: methodological advances". **Ria Laubscher**. Oral presentation.

IUSSP 2009 Conference, Marrakech, Morocco, 27 September – 2 October 2009. "Childhood mortality trends in rural South Africa: an investigation using demographic surveillance data." Nadine Nannan, Kobus Herbst, Debbie Bradshaw, **Ria Laubscher**. Poster presentation.

IUNS Congress 2009, Bangkok, Thailand, 4-9 October 2009. "Reproducibility of a cultural sensitive quantified food frequency questionnaire - PURE-SA". Edelweiss Wentzel-Viljoen, **Ria Laubscher**, Annamarie Kruger. Poster presentation.

4th Population Association of Southern Africa Conference 2009, International Conference on Population and Development (ICPD) +15, 8 - 10th July 2009, Cape Town, South Africa. "Estimating the Burden of Disease for the Western Cape, 2006". Prinsloo M, Bradshaw D, **Laubscher R**, Nannan N, Groenewald P & Neethling. Oral presentation.

GBD-ICE Injury Expert Group meeting, Harvard University, Cambridge, 7-10 October 2009. "Estimating the Burden of Disease for the Western Cape, 2006". Megan Prinsloo, Debbie Bradshaw, Pam Groenewald, **Ria Laubscher**, Nadine Nannan & Ian Neethling. Oral presentation.

5th IAS (International AIDS society) Conference on HIV Pathogenesis, Treatment and Prevention Cape Town, 19-22 July 2009. A Provider–Initiated HIV testing and Counselling (PITC) Intervention in Cape Town, South Africa. Electronic Poster for IAS Conference in Cape Town, July 2009. Natalie Leon, Pren Naidoo and **Carl Lombard**. Poster presentation. (It will be displayed on the IAS website as a PowerPoint presentation).

19th International Congress of Nutrition (ICN 2009), 4–9 October 2009 – BITEC, Bangkok, Thailand. PROMISE-EBF findings. Thorkild Tylleskär, Debra Jackson, Mickey Chopra, Hama Diallo, Tanya Doherty, Eva-Charlotte Ekström, Ingunn MS Engebretsen, Ameena Goga, Chipepo Kankasa, Jørn Klungsoyr, **Carl Lombard**, Nicholas Meda, Victoria Nankabirwa, Jolly Nankunda, Philippe Van de Perre, Rebecca Shanmugam, Chafye Siuluta, Halvor Sommerfelt, James K Tumwine, Henry Wamani, for the PROMISE-EBF study group. Oral presentation.

57th International Statistical Institute Conference, Durban July 2009 Chikobvu P, **Lombard C**, Flisher AJ, King G, Townsend L, Muller M. Bias in a binary risk behaviour model subject to inconsistent reports and dropout in a South African high school cohort study. Poster presentation.

11th Sub-Saharan Africa Network (SUSAN) of the International Biometric Society (IBS) Training Workshop / Conference in Kabarak University, Nakuru, Kenya from 22nd to 28th August, 2009. Statistics and Issues for Profiling Medical Care Providers. **Samuel OM Manda**, Chris P Gale, Alistair S Hall and Mark S Gilthorpe. Oral presentation.

The 57th Session of the International Statistical Institute. Conference, Aug 16-22, 2009 - Durban. Macro Determinants of Spatial Variation of Childhood Mortality in South Africa using Flexible Bayesian Gaussian Mixtures. **Samuel Manda**. Oral presentation.

The 57th Session of the International Statistical Institute. Conference, Aug 16-22, 2009 - Durban. Modelling multivariate spatially correlated frailty effects using Bayesian survival methods. **Samuel Manda**, Richard Feltbower. Oral presentation.

5th IAS (International AIDS society) Conference on HIV Pathogenesis, Treatment and Prevention Cape Town, 19-22 July 2009. Earlier diagnosis of HIV infection in infants in low resource settings. GG Sherman, K Technau, E Kalk, G Hampton, S Khan, K Bhowan, N Selepe, Le Berrie, S Carmona, A Goga, **S Olorunju**, **S Manda**, A Coovadia. Oral presentation.

18th Annual Meeting of the International Genetic Epidemiology Society. Statistical Analysis of Human Genetic Data in South Africa, 18 to 20 October. Hawaii, USA. **L van der Merwe**. Poster presentation.

The 57th Session of the International Statistical Institute, Aug 16-22, 2009 - Durban. Heritability established, what next? **L van der Merwe**, U Galal. Oral presentation.

2.3 INVITED PLENARY PRESENTATIONS - NATIONAL

Samuel Manda:

- A Bayesian Survival Model Using Weighted Observations from non-proportional Sampled Strata: Department of Statistics, University of Stellenbosch: 27th March: 2009
- Statistics for the Comparison of Hospital Performance: Faculty of Public Health, University of Witwatersrand: 15 May 2009

2.4 NATIONAL PAPER AND POSTER PRESENTATIONS

49th Annual Congress of The Federation of South African Societies of Pathology. 6-10 September 2009, Durban. Delpont R, Bornman MS, de Jager C, Oosthuizen NM, Aneck-Hahn NH, Macintyre U, **Becker PJ**. Vitamin A deficiency in poorly nourished subjects in a malaria vector control area. *National Platform Presentation.*

Faculty Day. Faculty of Health Sciences, University of Pretoria 19 August 2009. Mistry PP, **Becker P**, van Marie J. EVAR in octogenarians. *Poster Presentation – won 1st Prize*

Faculty Day. Faculty of Health Sciences, University of Pretoria 19 August 2009. Mistry PP, **Becker P**, van Marie J. Infra inguinal endovascular procedures for critical limb ischaemia. *Oral Presentation – won 3rd Prize*

Faculty Day. Faculty of Health Sciences, University of Pretoria 19 August 2009. Wenhold FAM, van Wyk EC, and **Becker P**. Assessing HIV lipodystrophy syndrome (HIV LDS): A comparison of different methods to an objective case definition. *Poster Presentation*

Faculty Day. Faculty of Health Sciences, University of Pretoria 19 August 2009. Delpont R, Bornman MS, Aneck-Hahn NH, de Jager C, Macintyre U, **Becker PJ**. Decreased retinol-binding protein concentrations in humans with environmental exposure to endocrine disruptors. *Poster Presentation*

Faculty Day. Faculty of Health Sciences, University of Pretoria 19 August 2009. Delpont R, Bornman MS, Aneck-Hahn NH, de Jager C, Macintyre U, **Becker PJ**. Homocysteine reduction with DDT exposure. *Platform Presentation*

Faculty Day. Faculty of Health Sciences, University of Pretoria 19 August 2009. Dawjee SM, Beukes S, and **Becker PJ**. Do black subjects with Bimaxillary protrusion want to change their facial profile? *Oral Presentation*

Faculty Day. Faculty of Health Sciences, University of Pretoria 19 August 2009. Estherhuisen M, Botha MDE, Prinsloo A, **Becker P**, and Pool R. The influence of low haematocrit values on platelet function in Vitro as assessed by the PFA-100®. *Poster*

Faculty Day. Faculty of Health Sciences, University of Pretoria 19 August 2009. Wenhold FAM, Bothma L, du Buisson M, Liversage M, Nel S, and **Becker PJ**. Waist-height ratio compared to body mass index and waist circumference as predictors of adult dyslipidemia at Steve Biko Academic Hospital, South Africa. Poster presentation

53rd Annual Academic Day, Faculty of Health Sciences, University of Stellenbosch 12– 13 August 2009. The Relationship between Nutritional Status, Quality of Life and CD4 Cell Count in HIV/AIDS Infected Adults. Venter E (Human Nutrition), Gericke GJ (Human Nutrition, University of Pretoria), **Becker PJ** (Biostatistics Unit, MRC). Objective: To determine if there was a relationship between CD4 cell count, nutritional status and self reported. Oral presentation.

5th Public Health Association Of South Africa (Phasa) 2009 Conference, Durban, South Africa, 30 Nov - 2 Dec 2009. Results from a multi-centre cluster-randomised behaviour intervention trial PROMISE EBF: exclusive breastfeeding promotion in Sub-Saharan Africa. Debra Jackson, Thorkild Tylleskär, Mickey Chopra, Hama Diallo, Tanya Doherty, Eva-Charlotte Ekström, Ingunn MS Engebretsen, Ameena Goga, Chipepo Kankasa, Jørn Klungsoyr, **Carl Lombard**, Nicholas Meda, Victoria Nankabirwa, Jolly

5th Public Health Association Of South Africa (Phasa) 2009 Conference, Durban, South Africa, 30 Nov - 2 Dec 2009. Community intervention to change drinking behaviour in pregnant women: A first step in a researcher/community partnership. Marais S, **Jordaan E**, De Waal J, Poole C, Viljoen D, Olivier L. Oral presentation.

3rd annual Stellenbosch University Conference on the Scholarship of Teaching and Learning. Non-verbal communication in medical students. **E Jordaan**, D Niehaus, Koen L, Gunther R. Oral presentation.

PHASA Conference, Durban, 8 July 2009. "Estimating the Burden of Disease for the Western Cape, 2006". Megan Prinsloo, Debbie Bradshaw, **Ria Laubscher**, Nadine Nannan, Pam Groenewald & Ian Neethling.

4th SAAIDS Conference, Durban, 31 March - 3 April 2009. Modelling Regimen Switch in HIV/AIDS Patients Receiving Antiretroviral Therapy using Multi-State Models. **Samuel Manda et al.** Oral presentation.

4th SAAIDS Conference, Durban, 31 March - 3 April 2009. On Medunsa National ARV Pharmacovigilance Centre. Rob Summers, Wendy Tsepe, Guistee Mayayise, Gail Mkele, Monika Zwegarth, Wim du Plooy, Olga Mzileni, Andries Gous, Hannelie Meyer, Elzabetha Osuch, **Samuel Manda**. Oral Presentation.

Faculty Day. Faculty of Health Sciences, University of Pretoria 19 August 2009. Botha SS, Schutte C-M, and **Olorunju SAS**. Postictal headache in patients with generalised epilepsy. *Oral Presentation*

*Neurology Association of South Africa's (NASA) annual congress, 12 March 2009. Postictal Headache in Adult Patients with Generalised Epilepsy. Fanus Botha, **Steve Olorunju**.*

*PHASA conference in Durban, Nov 30 – Dec 2. Nankunda, Philippe Van de Perre, **Rebecca Shanmugam**, Chafye Siuluta, Halvor Sommerfelt, James K Tumwine, Henry Wamani, for the PROMISE-EBF study group. Oral presentation.*

*Medical Research Council Research Day, MRC Conference Centre, Cape Town, 14 – 15 September 2009. Association of the ENPP1 rs997509 polymorphism with obesity in South African learners. B Fanampe, T Matsha, Y Yako, S Hassan, M Hoffmann, **L van der Merwe**, R Erasmus.*

*Medical Research Council Research Day, MRC Conference Centre, Cape Town, 14 – 15 September 2009. Sequence analysis of leptin-melanocortin genes in overweight and obese learners aged 13 – 16 years from Cape Town, South Africa. Y Yako, B Fanampe, M Hassan, R Erasmus, **L van der Merwe**. T Matsha.*

*53rd Annual Academic Day, Faculty of Health Sciences, University of Stellenbosch 12– 13 August 2009. Genetic variation in na+/k+-atpase gene isoforms are associated with extent of left ventricular hypertrophy in Hypertrophic cardiomyopathy. Carstens N, **Van der Merwe L**, Revera M, Heradien M, Goosen A, Brink PA, Moolman-Smook JC. Oral presentation.*

*53rd Annual Academic Day, Faculty of Health Sciences, University of Stellenbosch 12– 13 August 2009. SAPAP3 Variants Are Associated With Trichotillomania And Early-Onset Ocd In A South African Caucasian Population. Hemmings S, Boardman L, **Van der Merwe L**, Lochner C, Kinneer C, Seedat S, Stein D, Moolman-Smook H.*

*53rd Annual Academic Day, Faculty of Health Sciences, University of Stellenbosch 12– 13 August 2009. Association Of The Enpp1 Rs997509 Polymorphism With Obesity In South African Mixed Ancestry Learners. Fanampe BL, Matsha TE, Yako YY, Hassan MS, **Van der Merwe L**, Erasmus RT.*

*53rd Annual Academic Day, Faculty of Health Sciences, University of Stellenbosch 12– 13 August 2009. Sequence Analysis Of Leptin-Melanocotin Genes In Overweight And Obese Learners Aged 13-16 Years From Cape Town, South Africa. Yako YY, Fanampe B, Hassan MS, Erasmus RT, **Van der Merwe L**, Matsha T*

*53rd Annual Academic Day, Faculty of Health Sciences, University of Stellenbosch 12– 13 August 2009. Consolidation of tuberculosis candidate gene studies in a South African population. De Wit E, **Van der Merwe L**, Van Helden PD, Hoal EG.*

3. LAY PUBLICATIONS

3.1 LAY PUBLICATIONS (written documents of programmes for non-scientific audiences, includes press, radio, TV)

4. BOOKS

4.1 AUTHOR

4.2 EDITOR

4.3 CHAPTER

5. RESEARCH PROPOSALS/PROTOCOLS (approved for submission by Protocol Committee or Programme Leader)

5.1 SUCCESSFUL

Carl Lombard

- Proposal for a Centre of Excellence for Chronic Disease Control in Sub-Saharan Africa to be based at the University of Cape Town. Principle staff Prof Levitt, Mayosi, Steyn, Bateman and Fairall and **Drs' CJ Lombard** and D Bradshaw as collaborating researchers from the MRC. Funded by National Heart, Lung, and Blood Institute (NHLBI) at the National Institutes of Health (NIH) in collaboration with UnitedHealth Group Chronic Disease Initiative. Other PI's and collaborators is Dr Gaziano from Harvard, Dr Ramaiya, Tanzania, Dr Puoane from UWC and Prof Mash from Stellenbosch University.
- 2009 Making Medical Injections Safer National follow-up Survey. Proposal for statistical analysis of follow survey in public hospitals of South Africa. Sponsor John Snow Institute, USA

Samuel Manda

- Co-investigator: A national focused surveillance system to assess the antiretroviral related morbidity and mortality in patients with HIV (human immune deficiency virus) and AIDS (acquired immune deficiency syndrome) in the South African Public Sector. Department of Health: Project Number: MR 119/2006.
- Principal Investigator: Flexible Bayesian survival Modeling: The Royal Society

5.2 OUTCOME PENDING

Esme Jordaan

NIH proposal (consultant) submitted

Stereo-photogrammetry and morphometrics to analyze facial shape in alcohol-exposed infants – Dr Tanya Douglas

Samuel Manda

- Principal Investigator: Flexible Bayesian survival Modeling: The Royal Society

6. RESEARCH TECHNICAL REPORTS/MANUALS

Technical Report:

Whittaker S, Mulumba R, **Lombard C**, Rogers-Bloch Q, Keegan M. Evaluation of Injection Safety and Health Care Waste Management in South Africa: 2006 Baseline Report, August 2008 edition. Pretoria, South Africa: Making Medical Injections Safer (MMIS) for the office of the Global AIDS Coordinator, and the Department of Health (DOH) and Human Services/Centers for Disease Control and Prevention.

Lombard C, Gwebushe N. CANSA Customer Satisfaction Survey 2008.

Carl Lombard

2008 National Antenatal Sentinel HIV & Syphilis Prevalence Survey South Africa Report, National Department of Health, September 2009. Directorate: Epidemiology and Surveillance Chief Directorate: Health Information, Epidemiology, Evaluation and Research.

Interim Report:

Enhanced TB Adherence Pilot Programme
Interim Evaluation Report
January 2009
Salla Atkins, Simon Lewin, **Esme Jordaan**

Final evaluation report:

Enhanced Tuberculosis Adherence Programme
September 2009
ISBN: 978-1-920014-68-1
Salla Atkins, Simon Lewin, **Esme Jordaan**

Research summary/policy brief:

Summary of research findings – Enhanced tuberculosis treatment adherence: an evaluation of an intervention in 5 clinics in Cape Town Study authors. Health Systems Research Unit, MRC. Salla Atkins, Simon Lewin, Mickey Chopra, **Esme Jordaan**, Karen Jennings, Judy Caldwell, Deanna Carter, Pren Naidoo, Ria Grant, Harry Hausler.

7. TEACHING AND SUPERVISION FOR POST-GRADUATE STUDENTS

7.1 PhD/MD: PROMOTER/CO-PROMOTOR (indicate in brackets if completed this year)

Lize van der Merwe

External Promotor: PhD. Health Sciences, Stellenbosch University. Student: Nadia Carstens.

Steve Olorunju

PhD by thesis. Department of Nutrition. University of Pretoria. Student: Joan Matji.

7.2 MSc (or equivalent): PROMOTER CO-PROMOTER (indicate in brackets if completed this year)**Steve Olorunju**

MSc by thesis, School of Health Systems and Public Health, Faculty of Health Sciences. University of Pretoria. Student: Joyce Shirinde.

Steve Olorunju

MSc by thesis, Department of Family Medicine, School of Medicine, Faculty of Health Sciences. University of Pretoria. Student: Dr OJ Ibeziako.

Steve Olorunju

MSc by thesis, Department of Family Medicine, School of Medicine, Faculty of Health Sciences. University of Pretoria. Student: Dr COA Fabiyi.

Steve Olorunju

MSc by thesis, Department of Sociology, University of Pretoria, Faculty Humanities. Student: Lize Loots.

Lize van der Merwe

Supervisor: MSc by thesis, Department of Statistics, UWC. Student: Ushma Galal.

Lize van der Merwe

External Supervisor: MSc by thesis. Health Sciences, Stellenbosch University Student: Nadia Carstens [awarded 2009].

7.3 Examiner**Piet Becker**

Internal: UNISA

External: WITS; UP; MEDUNSA

Cathy Connolly

External examiner for courses:

Quantitative Skills for Medical Informatics 2

Epidemiology and Research Methods for E Health

Carl Lombard

External Examiner – UCT: Dept Statistical Sciences, Public Health

External Examiner - UKZN: Dept of Statistics

Samuel Manda

Masters and PhDs in Statistics, University of Kwazulu-Natal

Sonja Swanevelder

Course moderator: Applied Statistics

Department of Statistics

University of the Western Cape

Lize van der Merwe

External moderator: Biostatistics module, MSc Clinical epidemiology, Health Sciences, University of Stellenbosch. December 2008

External re-examinator: Biometry 2, Department of Genetics, Agriculture Faculty, University of Stellenbosch. July 2009

External re-examinator: Biometry 3, Department of Genetics, Agriculture Faculty, University of Stellenbosch. July 2009.

7.4 LECTURES (EXTERNAL) INVITED SPEAKER, ETC.

Cathy Connolly

Research Methods (2 lectures): Sept 10 and October. Dept of Health Sciences, UKZN

Carl Lombard

Presented two modules (screening and sampling) in the Masters in Clinical Epidemiology at University of Stellenbosch

Presented two topics (causal inference and effect measures) in the Masters in Clinical Trials at the University of Stellenbosch

Samuel Manda

Quantile regression and cubic splines: School of Public Health, University of Pretoria. 5th November 2009.

Lize van der Merwe

Invited to lecture at North England Genetic Epidemiology Society Meeting in Newcastle, UK on 15 July 2009.

Invited to help develop course in Experimental Epidemiology at Centre for International Health, University of Bergen, Norway.

7.5 COURSES TAUGHT

Becker P

Informal: Research and experimental design

- 1) School for Healthcare Sciences, UP
- 2) Healthcare Sciences, TUT – May 2009
- 3) Anatomy TNM 800, UP – May 2009
- 4) Sports & Medicine TNM 800, UP – February 2009

Formal: Survival Analysis (STA4174) on Unisa Hons/Masters programs

Esme Jordaan

University of the Western Cape
Postgraduate lecturing in Matrix Algebra
Multivariate analysis

Gaëtan Kabera

Research Methods (4 lectures): Sept 10 and Sept 17.
Introduction to Descriptive Statistics (Health Sciences, UKZN, Westville)

Samuel Manda

Workshop on Hierarchical Bayesian Data Analysis in Biostatistics with WinBUGS: 25 to 27 November 2009.

Statistical Issues in Clinical Trials. 7-11 September 2009; School of Public Health, University of Witwatersrand.

Steve Olorunju

Invited Lecturer (Design and statistical evaluation of animal experiments) – FELASA C course at the South African Association for Laboratory Animal Science (SAALAS), together with the University of Pretoria Biomedical Research Centre (UPBRC). 8-15 June 2009.

Rebecca Shanmugam

Presented lecture on Inferential Statistics, Human Sciences course at UKZN.

Trained TB Unit staff in data entry on EpiData

Developed training manual and annotated CRF for Vietnam team for RAP trial.

Lize van der Merwe

Masters level module: Statistical Analysis of Human Genetic Data, Department of Statistics, UWC. 22-26 June 2009 and 31 August to 4 September 2009.

8. REVIEWING AND EDITING OF MANUSCRIPTS/BOOKS (JOURNAL PEER REVIEW SYSTEM)

8.1 INTERNATIONAL BOOK/JOURNAL REVIEWS**Cathy Connolly**

Journal of the International AIDS Society Research.

Protocol Reviews (MRC Scientific Committee)

“MTN-016: HIV Prevention Agent Pregnancy Exposure Registry: EMBRACE by Catherine Connolly, Biostatistics Unit, Durban MRC, September 7, 2009.

“Relationships and Health in Gauteng: A household survey” by Catherine Connolly, Biostatistics Unit, Durban MRC, July 1, 2009.

Esme Jordaan

International Journal of Injury Control and Safety Promotion

Carl Lombard

Journal of Clinical Epidemiology
PLoS Medicine
BMC Public Health
BMC Research Notes
BMC Pediatrics
BMC Gastroenterology

Samuel Manda

Statistics in Medicine
BMC Public Health
Journal of Advanced Nursing
African Population Studies
British Journal of Psychiatry

Lize van der Merwe

PLOSone
Various BMC journals
Chapter 6 (new) of A Statistical Approach to Genetic Epidemiology (2nd ed) by
Andreas Ziegler and Inke König, Springer.

8.2 NATIONAL JOURNAL MANUSCRIPT REVIEWS**Dr Piet Becker**

Member of Pharma-Ethics: Ethics committee for clinical trials
Medical Aid Forum: Medical Research Council
Values Continuity Group: Medical Research Council

Dr Carl Lombard

CardioVascular Journal of Africa

Samuel Manda

South African Statistical Journal
African Safety Promotion Journal

Dr Steve Olorunju

Cardiovascular Journal of Africa

8.3 EDITORIAL COMMITTEES APPOINTMENTS**Carl Lombard**

Invited to become an Associate Editor of the International Journal of
Tuberculosis and Lung Disease (IJTLD)

Samuel Manda

Associate Editor: South African Statistical Journal

9. ELECTED OFFICERS OF PROFESSIONAL SOCIETIES
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9.1 INTERNATIONAL**9.2 NATIONAL**

10. COMMITTEES (JOB RELATED)

10.1 INTERNATIONAL

Carl Lombard

Member of the African Data and Safety Monitoring Board of the DIADS of the NIH- for the review of HIV related trials sponsored in Africa by the NIH

Member of the Data and Safety Monitoring Board of the CAPRISA 004 Microbicide Trial funded by the Family Health International.

Member of the Zambia Data Safety Monitoring Board of the National Institute of Allergy and Infectious Diseases, Division of AIDS (DAIDS) of the NIH

10.2 NATIONAL

Carl Lombard

Invited to become a member of the Data and Safety Monitoring Board of the trial of adjunctive Prednisolone and mycobacterium with immunotherapy in tuberculous pericarditis (IMPI): PI - Bongani M Mayosi from UCT.

MRC Scientific Review Committee

Employee Trustee on the MRC Pension Fund

Trustee on the SACEMA Centre of Excellence Board, University of Stellenbosch

Member of the HIV Surveillance Expert Task Team of the Department of Health: Reviewed HIV antenatal survey, performed independent analysis and reviewed 2008 final report.

Samuel Manda

Member of University of Witwatersrand: School of Public Health Public Health Statistics Working Group (teaching of students, seminars, short courses, Planning).

Steve Olorunju

Nominated to serve on the Ethics Committee of CSIR for a period of three years

Steve Olorunju.

Renewed nomination to serve on University of Pretoria Students Ethics Committee at the Faculty of Health Services for another term of three years

10.3 PREPARATION OF COMMITTEE REPORTS

Carl Lombard

Interim reports required for interim reviews of the Data Monitoring Committee of the STRETCH trial conducted in the ARV clinics of the Free State. One safety report and one interim report done since December 2008.

Report to the DOH on the analysis of the 2008 antenatal HIV prevalence survey using national and district sampling weights. April 2009.

11. LINKAGES AND PARTNERSHIPS WITH RESEARCH OR PUBLIC HEALTH

11.1 ORGANISATIONS – INTERNATIONAL

Carl Lombard

Institute of Allergy and Infectious Diseases, Division of AIDS (DAIDS) of the NIH

11.2 ORGANISATIONS – NATIONAL

Carl Lombard

Department of Health

Western Cape Department of Health on the HIV antenatal sub-district survey

12. AWARDS, PRIZES AND HONORARY MEMBERSHIPS

12.1 INTERNATIONAL RECOGNITION

Carl Lombard

Invited to become an Associate Editor of IJTLD

12.2 NATIONAL RECOGNITION

Carl Lombard

Invited to join the HIV Expert Task team of the Department of Health. Acknowledged in the 2008 DOH report

Lize van der Merwe

- Extraordinary Professor in Statistics Department, Natural Sciences Faculty, University of Western Cape.
- Honorary Associate Professor in Human Biology Department, Faculty of Health Sciences, University of Cape Town.

13. IMPLEMENTATION (Describe instances where your research has influenced policy and practice)

Carl Lombard

Collaboration on various health system trials (PALSA, PALSA PLUS, STRETCH) with the Knowledge Translation Unit of the University of Cape Town has led to a national training initiative for the DOH.

NATIONAL PALSA PLUS

1 July 2009

Since the inception of PALSA in 2005, the vision of Lara Fairall and her team in the KTU has been to expand and persevere in the quest to contribute to improving the quality of healthcare delivered by nurses in Primary Health Care facilities. Soon after PALSA had been successfully implemented in the Free State and found to make a significant difference to health outcomes, it was expanded to PALSA PLUS to include HIV/AIDS and STIs.

However, not only did the KTU move towards expansion and improvement of PALSA PLUS, but their vision was to make it available more broadly in South Africa and the African region. After its successful implementation in the Free State, the Western Cape contracted the KTU to start PALSA PLUS training in that province. Soon after, talks began between KTU staff and relevant stakeholders at the South African National Department of Health to formulate a plan that could extend PALSA PLUS to the remaining seven provinces. In mid-2008, the Minister of Health identified 18 'Crisis Districts' where interventions were needed to address key health indicators in these districts. A tender was released by the National Health department in October 2007, calling for the training of nurses on the integrated management of TB, HIV and STIs using the knowledge translation method. The whole KTU worked together to assist in the preparation of the bid for this tender. The hard work paid off, and in February 2009 we were awarded this tender!

The contract stipulates that approximately 4800 nurses should be trained in 4 districts: Amathole and Nelson Mandela Health districts in the Eastern Cape, eThekweni Health district in KwaZulu Natal, and the City of Johannesburg Health District in Gauteng. We were therefore required to work in three provinces, and mainly in urban districts.

We initiated the project with talks between ourselves and the National and Provincial Health Departments. This was to introduce PALSA PLUS and to plan the way forward. We quickly put together 4 PALSA PLUS Open Days, which were held in each district. We are currently initiating Training the Trainer to Train (TtTtTs) sessions in each district to introduce the PALSA PLUS approach through the training and Guidelines. In July we shall be training the Master Trainers, followed by supported training in earnest in all districts during the rest of the year. As the TtTtTs are completed, this will release facility trainers to go out and get the districts PALSA PLUS trained!

To date, the TtTtTs have been well received and the new PALSA PLUS trainers are excited to discover the integration of the diagnosis and management of the diseases covered in the PALSA PLUS Guidelines. The innovative method of training, different to what people are used to, is also an eye opener to participants.

Feedback from some of the trainers from the Nelson Mandela District TtTtT:

“The programme was structured very well and it moved from the basis of unknown to known and was systematically paced and also allowed the group to settle.

The programme was practical and flow of information was logical.

There was never a dull moment and there was integration of learning and fun.

The training brought out the best of me.

The training brought insight to health workers in terms of diagnosis, treatment and care.

Facilitators were good and they have treated the group with respect and they have displayed a high level of professionalism.

Reporting of the 2008 national antenatal sentinel HIV and Syphilis prevalence survey. Interpretation of district level estimates as well as regression model results that were incorporated in the final report.

Reporting of the 2008 Western Cape HIV and Syphilis prevalence survey. Advised on analysis and weighting of sub-district level survey to stabilize small area estimates.

Reporting of the Making Medical Injections Safer national survey results to the District managers of the 18 priority districts of the DOH. Discussed the strengths and limitations of the survey help with the interpretation of the results.

14. WORKSHOPS, SEMINARS, CONFERENCES, SYMPOSIUMS, COURSES ATTENDED

Salla Atkins, Simon Lewin, **Esme Jordaan**. Invited speaker - Enhanced TB Adherence Final Report Back. Presentation of findings to TB City Health; City of Cape Town. 28 July 2009.

Carl Lombard

Organized a special session on Biostatistics the case of HIV/AIDS for the International Statistical Institute (ISI) Conference – Durban August 2009.

Chairperson and discussant of the papers of the three invited speakers.

Steve Olorunju

- Invited speaker (Good sampling strategies and sampling techniques) - Public Health Seminar, School of Health Systems and Public Health, University of Pretoria. 20 March 2009.
- Invited speaker (Design and statistical evaluation of animal experiments) – FELASA C course at the South African Association for Laboratory Animal Science (SAALAS), together with the University of Pretoria Biomedical Research Centre (UPBRC). 8-15 June 2009.
- Presented an in-house seminar at the Pretoria Young Scientists Forum monthly seminar in Pretoria. Topic: Biostatistics
- On-line course – Logistic Regression Modeling – Statistics.com September 11 till October 20, 2009. Course Tutor: Joseph Hilb

Lize van der Merwe

Meeting of North England Genetic Epidemiology Society meeting. 15 July 2009. Newcastle, UK.

Diagnostic Accuracy workshop. Cochrane Collaboration. Birmingham, UK. 4 to 6 July 2009.

Submitted articles:

1. Moodley M, Lindeque, **Connolly C**. HPV-type distribution in relation to oral contraceptive use in women with cervical intraepithelial neoplasia (submitted). *European Journal Gynaecological Oncology*.
2. Patel VB, Bhigjee AI, Paruk H, Singh R, Ndungu T, Naidoo R, Meldau R, **Connolly C**, Zumla A Dheda K. Performance outcomes of a novel tuberculosis antigen-detection assay for the rapid diagnosis of tuberculous meningitis in a high burden setting. (submitted). *Cerebrospinal Fluid Research, 2009, 6:13*.
3. Bagratee JS, Regan L, Khullar V, **Connolly C**, Moodley J. Is First Trimester 3_D Ultrasound Volumetry Predictive of Pregnancy Outcome in Threatened Miscarriage *Ultrasound Obstet Gynecol (submitted under revision)*.
4. Atkins S, Lewin S, **Jordaan E**, Thorson A. The effects of Lay health worker supported community tuberculosis treatment adherence intervention: an interrupted time series study. *International Journal of Tuberculosis and Lung Disease. Submitted*.
5. Mayaphi SH, Rossouw TM, Masemola TM, **Olorunju SAS**, Mphahlele JM, Martin DJ. HBV/HIV co-infection: New insights into HBV diagnosis and treatment in AIDS. *Submitted*.