

CURRICULUM VITAE : Annelies Van Rie, M.D., Ph.D.

EDUCATION:	Doctor of Philosophy (PhD) University of Stellenbosch, SouthAfrica	1996-2000
	Intensive course in Epidemiology and Medical Statistics London School of Hygiene and Tropical Medicine	1999
	Postdoctoral degree in Hospital Policy and Management 1996 Catholic University Leuven, Belgium	1994-
	Medical Doctor (MD) Catholic University Leuven, Belgium	1984-1991
PROFESSIONAL EXPERIENCE:	Associate professor Department Epidemiology The University of North Carolina at Chapel Hill, USA	2007-
	Assistant Professor Department Epidemiology The University of North Carolina at Chapel Hill, USA	2001-2007
	Visiting Professor School of Medicine, University of Leuven, Belgium	2004 -
	Medical Epidemiologist Global Medical Affairs Aventis Pasteur, Lyon, France	2000-2001
	Visiting Scholar and PhD candidate Department of Pediatrics University of Stellenbosch, South Africa PhD Thesis: Molecular epidemiology of multidrug resistant tuberculosis Thesis Advisors: Prof N. Beyers and Prof P van Helden.	1997-2000
	Pedatric Infectious Disease Fellow Department of Pediatrics Catholic University of Leuven, Belgium	1996
	Fellow - Pediatrics Department of Pediatrics Catholic University of Leuven, Belgium	1991-1996
HONORS & AWARDS	Center for AIDS Research Developmental Core Award University of North Carolina at Chapel Hill	2002, 2005
	Francis Van Zyl medal (best Medical research presentation) University of Stellenbosch, South Africa	1999
	D. Collen Research Foundation Scholarship	1997-1999

PUBLICATIONS AND PRESENTATIONS:

Books and chapters

1. A Guide to monitoring and evaluation for collaborative TB/HIV activities – field test version. WHO/HTM/TB/2004.342; WHO/HIV/2004.09 (writing group: Ayles H, Bloom M, van Cleef M, Eckert E, Giphart A, Loth G, Nelson L, Pray R, Reid A, **Van Rie A**, Wilson D)
2. Compendium of Indicators for monitoring and evaluating National Tuberculosis Programs. WHO/HTM/TB/2004.344 (writing group: Adama L, Bergstrom K, Bleed D, Colvin C, Eckert E, Hanson C, Mullen S, MacIntyre K, Moore T, Qualls M, Reid A, Sawert H, Trebucq A, van Cleef M, **Van Rie A**, Vincent C, Weil D.)
3. Beyers AD, **Van Rie A**, Adams J, Fenhalls G, Gie R, Beyers N. Signals that regulate the host response to *Mycobacterium tuberculosis*. In Genetics and tuberculosis. Eds DJ Chadwick and G Cardew. John Wiley & Sons 1998. p 145-57

Publications in peer reviewed journals

1. **Van Rie A**, Westreich D, Maotoe T, Sanne I. Tuberculosis in patients receiving antiretroviral treatment: incidence, risk factors and prevention strategies. Oct 2010; *Epub ahead of print JAIDS*
2. **Van Rie A**, Page-Shipp L, Scott L, Sanne I, Stevens W. Xpert® MTB/RIF for point-of-care diagnosis of TB in high-HIV burden, resource-limited countries: hype or hope? Expert Review of Molecular Diagnostics, 2010; 10; 937-946
3. Worsley CM, Suchard MS, Stevens WS, **Van Rie A**, Murdoch DM. Multi-analyte profiling of ten cytokines in South African HIV-infected patients with Immune Reconstitution Inflammatory Syndrome (IRIS). AIDS Research and Therapy. 2010;7(1):36
4. Robertson K, Liner J, Hakim J, Sankalé JL, Grant I, Letendre S, Clifford D, Diop AG, Jaye A, Kanmogne G, Njamnshi A, Langford TD, Weyessa TG, Wood C, Banda M, Hosseinipour M, Sacktor N, Nakasuja N, Bangirana P, Paul R, Joska J, Wong J, Boivin M, Holding P, Kammerer B, **Van Rie A**, Ive P, Nath A, Lawler K, Adebamowo C, Royal W 3rd, Joseph J; NeuroAIDS in Africa Conference Participants. NeuroAIDS in Africa. J Neurovirol. 2010;16(3):189-202.
5. Yotebieng M, **Van Rie A**, Moultrie H, Meyers T. Six months gain in weight, height, and CD4 count to predict the outcome of antiretroviral therapy in children. AIDS, 2010; 24:139-146.
6. Pungrassami P, Kipp AM, Stewart PW, Chongsuvivatwong V, Strauss RP, **Van Rie A**. Tuberculosis and AIDS stigma among patients who delay seeking care for tuberculosis symptoms. IJTL, 2010; 14:181-7.
7. Sanne I, Westreich D, MacPhail P, Rubel D, Majuba P, **Van Rie A**. Outcomes of antiretroviral therapy in the first four years of a large HIV/AIDS care clinic in urban South Africa 2009 Dec 17;12:38 PMID: PMC2811100
8. Murdoch DM, Suchard MS, Venter WDF, Mhlangu P, Ottinger JS, Feldman C, **Van Rie A**, Glencross DK, Stevens WS, Weinhold KJ. Polychromatic immunophenotypic characterization of T cell profiles among HIV-infected patients experiencing immune reconstitution inflammatory syndrome (IRIS). AIDS Research and Therapy; 2009: 6:16. PMID: PMC2723132
9. **Van Rie A**, Dow A, Mupuala A, Stewart P. Neurodevelopmental trajectory of HIV-infected

- preschool-aged children accessing care in Kinshasa, Democratic Republic of Congo. *JAIDS* 2009, 52:636-42. PMID: PMC2787989
10. Coudeville L, **Van Rie A**, Getsios D, Caro JJ, Van Nguyen. Adult Vaccination Strategies for the Control of Pertussis in the United States: An economic evaluation including the dynamic population effects. *PLoS One*. 2009;4:e6284. PMID: PMC2707617
 11. Edmonds A, Lusiana J, Napravnik S, Kitetele F, **Van Rie A**, Behets F. Anti-retroviral therapy reduces incident tuberculosis in HIV-infected children. *Int J Epidemiol*. 2009; 38:1621-3. PMID: PMC2790346
 12. Suchandran S, Brouwer E, **Van Rie A**. Is HIV a risk factor for the development of Multi-drug Resistant Tuberculosis? A systematic review and meta-analysis. *PLoS One*. 2009;4:e5561 PMID: PMC2680616
 13. Westreich DJ, Sanne I, Maskew M, Malope-Kgokong B, Conradie F, Majuba P, Funk MJ, Kaufman JS, Van Rie A, Macphail P. Tuberculosis Treatment and Risk of Stavudine Substitution in First-Line Antiretroviral Therapy. *Clin Infect Dis*. 2009; 48:1617-1623. PMID: PMC2787193
 14. Marais BJ, Parker SK, Verver S, **Van Rie A**, Warren RM. Primary and post-primary or reactivation TB: time to revise confusing terminology? *American Journal of Radiology* 2009; 192:W1 0361
 15. Westreich D, MacPhail , Maskew M, Malope B, Conradie, F, Majuba P, Jonsson Funk M, Kaufmann JS, **Van Rie A**, Sanne I. Effect of pulmonary tuberculosis on mortality in patients receiving HAART. *AIDS* 2009; 23:707–715 PMID: PMC2848384
 16. Vanden Driessche K, Sabue M, Dufour W, Behets F, **Van Rie A**. Training health care workers to promote HIV services for patients with tuberculosis in the Democratic Republic of Congo *Human Resources for Health* 2009; 7:23 PMID: PMC2664786
 17. Keller P, McCarthy K, Mosendane T, Tellie M, Venter F, Noble L, Scott L, Stevens W, **Van Rie A**. HIV prevalence among medical students in Johannesburg, South Africa. *South African Medical Journal* 2009; 99:72.
 18. Callens S, Shabani S, Lusiana J, Lelo P, Kitetele F, Colebunders R, Gizlice Z, Edmonds A, **Van Rie A**, Behets F. Mortality and Associated Factors Following Initiation of Pediatric Antiretroviral Treatment in the Democratic Republic of Congo. *Pediatric Infectious Disease Journal* 2009; 28:35-40.
 19. Callens S, Westreich D, Kitetele F, Lusiana J, Shabani N, Belhorn T, Colebunders R, Behets F, **Van Rie A**. A visual dosing aid for first line pediatric antiretroviral drug dosing in resource poor settings. *Journal of Tropical Pediatrics* 2009;55:135-7.
 20. Murdoch DM, Venter WD, Feldman C, **Van Rie A**. HIV immune reconstitution syndrome in sub-Saharan Africa. *AIDS*. 2008; 22:1689-90. PMID: PMC2742221
 21. Martinot M, **Van Rie A**, Sabue M, Mbulula ML, Jarrett NM, Bola V, Behets F, Bola V, Bahati E, Decreasing the HIV burden among TB patients in Kinshasa: Are the Global Plan to Stop TB targets within reach? *Tropical Doctor* 2008; 38:137-141.
 22. **Van Rie A**, Dow A, Mupuala A, Nossa N, Zephyrin I. Neurodevelopment of HIV infected and HIV affected children in Kinshasa, DRC. *Pediatrics*. 2008; 122:e123-8.
 23. Murdoch D, Naprovnick S, **Van Rie A**. Smoking Increases Risk of Pneumonia Among HIV-Seropositive Patients in the Southeastern United States During the HAART Era. *Open Resp Med Journal* 2008, 2:22-28. PMID: PMC2606650
 24. André P, Caro V, Njamkep E, Wendelboe A, **Van Rie A** and Guiso N. Comparison of

- serological and real-time PCR assays to diagnose *Bordetella pertussis* infection in 2007. *J Clin Microbiol.* 2008;46:1672-7 PMID: PMC2395107
25. Robertson K, Kopnisky K, Hakim, Merry, Nakasujja, Hall, Traore, Sacktor N, Clifford D, Newton, **Van Rie A**, Holding P, Clements, Zink, Mielke, Hosseinipour M, Lalloo, Amod, Marra, Evans, Liner J. Second Assessment of NeuroAIDS in Africa. *J Neurovirol.* *J Neurovirol.* 2008; 14:87-101 PMID: PMC2755561
 26. Kipp AM, Stout JE, Dukes Hamilton C, **Van Rie A**. Extrapulmonary Tuberculosis, Human Immunodeficiency Virus, and Foreign Birth, in North Carolina, 1993 – 2003. *BMC Public Health* 2008, 8:107 PMID: PMC2346470
 27. Callens SFJ, Westreich D, Kitetele F, Lusiana J, Shabani N, Edidi S, Colebunders R, Behets F, **Van Rie A**. Computed CD4 percentage as a low-cost method for determining pediatric antiretroviral treatment eligibility *BMC Infectious Diseases* 2008, 8:31 PMID: PMC2292192
 28. **Van Rie A**, Sabue M, Jarrett NM, Westreich D, Behets F, Bahati E. Counseling and testing TB patients for HIV: Evaluation of three implementation models in Kinshasa, Democratic Republic of Congo. *International Tuberculosis and Lung Diseases.* 2008; 12:S73-78.
 29. Corneli A, Jarrett NM, Sabue M, Duvall S, Bahati E, Behets F, **Van Rie A**. Patient and Provider Perspectives on Three Implementation Models of HIV Counseling and Testing for Tuberculosis Patients. *International Tuberculosis and Lung Diseases* 2008;12:S79-84.
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 31. **Van Rie A**, Fitzgerald DP, Kabuya G, Sabue M, Tabala M, Jarrett N, Behets F, Bahati E., External Quality Control of sputum smear microscopy: implementation of the 2002 international guidelines in a resource poor, high burden setting. *Journal of Clinical Microbiology.* 2008; 46:897-901. PMID: PMC2268372
 32. **Van Rie A**, Sengupta S, Pungrassami P, Balthip Q, Choonuan S, Kasetjaroen Y, Strauss RP, Chongsuvivatwong V. Measuring stigma associated with tuberculosis and HIV/AIDS in southern Thailand: exploratory and confirmatory factor analyses of two new scales. *Tropical Medicine & International Health.* 2008;13:21-30.
 33. Callens SFJ, Kitetele F, Lelo P, Shabani N, Lusiana J, Wekamoy O, Colebunders R, Behets F, **Van Rie A**. Pulmonary cystic disease in HIV positive individuals in Kinshasa, Democratic Republic of Congo: three case reports. *Journal of Medical Case Reports* 2007;1:101 PMID: PMC2082036
 34. Wendelboe AM, Hudgens M, Poole C, **Van Rie A**. Estimating the Role of Casual Contact from the Community In Transmission Of *Bordetella Pertussis* To Young Infants. *Emerging themes in Epidemiology* 2007;4:15 PMID: PMC2170437
 35. Coudeville L, **Van Rie A**, Andre P. Adult pertussis vaccination strategies and their impact on pertussis in the US: evaluation of routine and targeted (cocoon) strategies. *Infection and Immunology.* 2007 Jul 5;1-17
 36. Murdoch DM, Venter WDF, **Van Rie A**, Feldman C. Immune reconstitution inflammatory syndrome (IRIS): Review of common infectious manifestations and treatment options. *AIDS Research and Therapy* 2007; 4:9 PMID: PMC1871602
 37. Edwards DJ, Kitetele F, **Van Rie A**. Agreement between clinical scoring systems used for

- the diagnosis of pediatric tuberculosis in the HIV era. *International Journal Tuberculosis and Lung Diseases* 2007; 11:263-9.
38. Wendelboe AM, Njamkepo E, Bourillon A, Floret DD, Gaudelus J, Gerber M, Grimprel E, Greenberg D, Halperin S, Liese J, Munoz-Rivas F, Teyssou R, Guiso N, **Van Rie A**; Infant Pertussis Study Group. Transmission of *Bordetella pertussis* to young infants. *Pediatric Infectious Disease Journal* 2007; 26:293-9.
 39. Westreich D, Eron J, Behets F, van der Horst C, **Van Rie A**. Survival in women exposed to single-dose nevirapine for prevention of mother to child transmission of HIV: a stochastic model. *Journal of Infectious Diseases* 2007;195:837-846.
 40. **Van Rie A**, Enarson D. Extensively drug resistant tuberculosis (XDR TB), an indicator of public health negligence. *Lancet* 2006; 368(9547):1554-6.
 41. Wendelboe AM, **Van Rie A**. Diagnosis of Pertussis: a Historical Review and Recent Developments. *Expert Review of Molecular Diagnostics* 2006; 6:857-64
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 43. Behets F, Matendo R, Vaz LME, Kilese N, Nanlele D, Callens S, **Van Rie A**, Kokolomami J. Preventing Vertical Transmission of HIV in Kinshasa, Democratic Republic of Congo: a Baseline Survey of Antenatal Clinics. *World Health Organization Bulletin* 2006; 84:969-75
 44. Sengupta S, Pungrassami P, Balthip Q, Strauss R, Kasetjaroen Y, Chongsuvivatwong V, **Van Rie A**. Social Impact of Tuberculosis in Southern Thailand: Views from Patients, Care Providers, and Community. *International Journal Tuberculosis and Lung Diseases*. 2006;10:1008-1012.
 45. **Van Rie A**, Madhi S, Heera JR, Meadows-Taylor S, Wendelboe A, Anthony F, Violari A, Tiemessen CT. Influence of intrauterine exposure to Human Immunodeficiency Virus on infant interferon gamma production in response to BCG and *Mycobacterium tuberculosis* antigens. *Clinical and Diagnostic Laboratory Immunology*. 2006;13:246-52.
 46. Callens S, Kitetele F, Lukun P, Lelo P, **Van Rie A**, Behets F, Colebunders R. Pulmonary *Sporothrix schenckii* infection in a HIV positive child. *Journal of Tropical Pediatrics* 2005; 52:144-6.
 47. Caro J, Coudeville C, Denis G, **Van Rie A**. Pertussis in adolescents and adults: should we accept the results? *Pediatrics* 2005;116:1263.
 48. **Van Rie A**, Victor TC, Richardson M, Johnson R, van der Spuy G, Murray E, Beyers N, Gey van Pittius NC, van Helden PD, Warren RM. Reinfection and mixed infection cause changing *Mycobacterium tuberculosis* drug-resistance patterns. *American Journal of Respiratory and Critical Care Medicine* 2005; 172:636-42.
 49. **Van Rie A**, Zhemkov V, Granskaya J, Steklova L, Narvskaya O, Shpakovskaya L, Wendelboe AM, Kozlov A, Ryder R, Salfinger M. TB and HIV in St. Petersburg, Russia: a looming catastrophe? *International Journal of Tuberculosis and Lung Diseases*. 2005; 9:740-745.
 50. Khan M, Matendo R, Mcclamroch K, Nanele D, **Van Rie A**. Soins prénatals à Kinshasa, République Démocratique du Congo: croyances, connaissances et obstacles à la programmation appropriée. *Cahiers d'études et de recherche francophones / Santé* 2005;15(2):93-97.
 51. **Van Rie A**, Wendelboe AM, Englund JE. Role of maternal pertussis antibodies in infants.

- Journal of Pediatric Infectious Diseases*. 2005; S62-65
52. Wendelboe AM, **Van Rie A**, Salmaso S, Englund JE. Duration of immunity against pertussis after natural infection or vaccination. *Journal of Pediatric Infectious Diseases*. 2005; ,S58-61
 53. Huspeth J, Venter WDF, **Van Rie A**, Wing J, Feldman C. Access to and early outcomes of a public South African adult antiretroviral clinic. *The Southern African Journal of Epidemiology and Infection* 2004; 19:48-51.
 54. **Van Rie A**, Hethcote H. Adolescent and adult pertussis vaccination: computer simulations of five new strategies. *Vaccine* 2004;22:3154-3165.
 55. Van Boven M, Ferguson MN, **Van Rie A**. Unveiling the burden of pertussis. *Trends in Microbiology* 2004;12:116-119
 56. Olin P, Gustafsson L, Barreto L, Hessel L, Mast TC, **Van Rie A**, Bogaerts H, Storsaeter J. Declining pertussis incidence in Sweden following the introduction of acellular pertussis vaccine. *Vaccine*. 2003;21:2024-30
 57. Victor TC, **Van Rie A**, Jordaan AM, Richardson M, Van Der Spuy GD, Beyers N, Van Helden PD, Warren R. Sequence polymorphism in the rrs gene of Mycobacterium tuberculosis is deeply rooted within an evolutionary clade and is not associated with streptomycin resistance. *Journal of Clinical Microbiology* 2001;39:4184-4186.
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 59. Schaaf HS, Gie RP, **Van Rie A**, Seifart HI, Van Helden PD, Cotton MF. Second episode of tuberculosis in an HIV-infected child: relapse or re-infection? *Journal of Infection* 2000; 41:100-103.
 60. Schaaf HS, **Van Rie A**, Gie RP, Beyers N, Victor T, Van Helden PD, Donald PR. Transmission of multi-drug resistant tuberculosis. *Pediatric Infectious Disease Journal* 2000; 19:695-699.
 61. **Van Rie A**, Warren R, Richardson M, Gie RP, Beyers N, Victor T, Van Helden PD, Donald PR. The classification of drug resistant tuberculosis in an epidemic area. *The Lancet* 2000; 356:22-25.
 62. Victor TC, Jordann A, **Van Rie A**, Richardson M, Van Helden P, Warren R. Rapis detection of mutations in drug resistant genes in Mycobacterium tuberculosis by a dot-blot hybridization strategy. *Tubercle and Lung Diseases* 1999; 79:343-348.
 63. **Van Rie A**, Warren R, Richardson M, Victor TC, Gie RP, Enarson DA, Beyers N, Van Helden PD. Exogenous reinfection as a cause of recurrent tuberculosis after curative treatment. *New England Journal of Medicine* 1999; 341:1174-1179.
 64. **Van Rie A**, Warren R, Beyers N, Gie RP, Classen C, Richardson M, Sampson S, Vistor T, Van Helden P. Transmission of a multi-drug resistant Mycobacterium tuberculosis strain resembling "strain W" among non-institutional, HIV seronegative patients. *Journal of Infectious Diseases* 1999;180:1608-1615.
 65. **Van Rie A**, Beyers N, Gie RP, Kunneke M, Zietsman L, Donald PR. Demographic and socio-economic risk factors for childhood tuberculosis in a South African suburban area. *Archives of Disease in Childhood* 1999; 80:433-437.

Manuscripts under review or in press - peer reviewed journals

1. Pittman JE, Calloway EH, Kiser M, Yeatts J, Davis SD, Drumm ML, Schechter M, Leigh MW, Emond M, Van Rie A, Knowles MR. Age of pseudomonas aeruginosa acquisition and subsequent severity of cystic fibrosis lung disease. *In press Pediatric Pulmonology*
2. Kipp AM, Pungrassami P, Nilmanat K, Sengupta S, Poole C, Strauss RP, Chongsuivatwong V, **Van Rie A**. Determinants of tuberculosis-related stigma in southern Thailand: community and patient perspectives
3. Pittman J, Davis S, **Van Rie A**. Spirometry in Biracial Children: Assessing the Adequacy of Current Race-Based Reference Equations

Peer reviewed posters at international conferences

1. Conradie F. **Van Rie A**. Adverse events in patients hospitalized with multidrug-resistant tuberculosis: a prospective cohort 41st Union World Conference on Lung Health, November 2010, Berlin, Germany Abstract PS-101365-15
2. Tellie M, McCarthy KM, Venter F, **Van Rie A**. TB infection control knowledge and practice amongst health care workers in high TB exposure settings. 2nd South African TB conference, Durban, South Africa, June 2010.
3. Page-Shipp L, John MA, Menezes C, Chakale D, Lima Y, Maotie T, Sanne I, **Van Rie A**. Advanced HIV disease continues to dominate the presentation of tuberculosis at an inner city hospital in Johannesburg, South Africa. 2nd South African TB conference, Durban, South Africa, June 2010
4. Kitetele F, Yotebien M, Lusiana J, Lelo P, Tshikandu T, Akele C, Behets F, **Van Rie A**. Effects of HIV infection on measles mortality in hospitalized children. 5th Francophone conference on HIV/AIDS. Casablanca, Morocco, March 2010
5. Yotebieng M, **Van Rie A**, Luisiana J, Kitetele F, Edmonds A, Behets F, for the SARA team. Five years survival, clinical, immunological and hematological outcomes of antiretroviral therapy among HIV-infected children attending a public clinic in Kinshasa, Democratic Republic of Congo. International Society for Infectious Disease Conference, March 2010, Miami, Florida.
6. D Westreich, Maskew M, McPhail P, Sanne I, **Van Rie A**. Incident tuberculosis and mortality in the Themba Lethu Clinical Cohort, Johannesburg, South Africa. 17th Conference on Retroviruses and Opportunistic Infections (CROI) February 2010, Los Angeles, USA.
7. Dow A, Dube Q, Chirambo C, Moore M, Heyderman R, **Van Rie A**. Community based early infant testing and treatment: experience from Blantyre, Malawi. 5th IAS Conference on HIV Pathogenesis, Treatment and Prevention, Cape Town, South Africa, July 19-22, 2009
8. **Van Rie A**, Mbonze N, Tillerson K, Kitenge F, Rogers I, Vandendriessche K, Behets F. A nurse-centered primary health care model for HIV care of patients with active tuberculosis: antiretroviral treatment initiation decision making. 5th IAS Conference on HIV Pathogenesis, Treatment and Prevention, Cape Town, South Africa, July 19-22, 2009
9. **Van Rie A**, Mbonze N, Tillerson K, Kitenge F, Rogers I, Vandendriessche K, Behets F. Good antiretroviral and TB treatment outcomes in a nurse-centered primary health care program for HIV co-infected TB patients. 5th IAS Conference on HIV Pathogenesis, Treatment and Prevention, Cape Town, South Africa, July 19-22, 2009
10. **Van Rie A**, Westreich D, Sanne I. Risk factors for incident tuberculosis six months or more

- after ART initiation -experience from Johannesburg, South Africa. 5th IAS Conference on HIV Pathogenesis, Treatment and Prevention, Cape Town, South Africa, July 19-22, 2009
11. McCarthy KM, Scott LE, Fakir P, Tellie M, Venter F, Stevens W, **Van Rie A**. Longitudinal evaluation of Quantiferon Gold In-tube Assay responses amongst medical students in a highly endemic TB area. 2nd Global Symposium on IGRAs, Dubrovnick, Croatia, June 2009
 12. Yotebieng M, **Van Rie A**, Moultrie H, Meyers T. Age-specific CD4 Percentage and Weight/Growth Curves to Predict Survival and Virological Response to HAART. 16th Conference on Retroviruses and Opportunistic Infections (CROI) February 8-11, 2009, Montreal, Canada
 13. Majuba P, Westreich D, Maskew M, MacPhail P, Fox M, Ngobeni L, Seete T, **Van Rie A**, Sanne I. Follow-up in a Public HAART Clinic in South Africa Congratulations. 16th Conference on Retroviruses and Opportunistic Infections (CROI) February 8-11, 2009, Montreal, Canada
 14. Henegar C, Kitenge F, Edmonds A, Behets F, **Van Rie A**. Age dependent incidence and mortality of extrapulmonary TB. 39th Union World Conference on Lung Health, Oct 2008, Paris – France.
 15. *Henegar C, Kitenge F, Edmonds A, Behets F, **Van Rie A**.. Incidence and mortality of extrapulmonary TB by HIV infection status: does site of disease matter? 39th Union World Conference on Lung Health, Oct 2008, Paris – France.
 16. Suchandran S, Brouwer E, **Van Rie A**. HIV and MDR- tuberculosis: a systematic review. 39th Union World Conference on Lung Health, Oct 2008, Paris – France.
 17. Murdoch DM, Suchard M, Glencross D, Stevens W, Ottinger J, Venter WDF, Feldman C, **Van Rie A**, Weinhold KJ. Memory and effector T cell distribution among HIV-infected patients who experience tuberculosis-associated immune reconstitution inflammatory syndrome (TB-IRIS). International AIDS Society conference, Mexico, August 2008
 18. Dow A, Mupuala A, Stewart P, **Van Rie A**. Effects of provision of HIV care on neurodevelopment of preschool children in Kinshasa, Democratic Republic of Congo International AIDS Society conference, Mexico, August 2008
 19. Roger I, Edmonds A, Lusiana J, Kitetele F, Shabani N, Lelo P, Akele K, Behets F, **Van Rie A**. Impact of routine liver function test monitoring on clinical management and treatment outcome in pediatric ART. International AIDS Society conference, Mexico, August 2008
 20. Edmonds A, Kitetele F, Lusiana J, Shabani N, Lelo P, Tshikandu T, Behets F, **Van Rie A**. Antiretroviral treatment of virological unconfirmed HIV-exposed infants: challenges in a resource-poor setting. International AIDS Society conference, Mexico, August 2008
 21. **Van Rie A**, Roger I, Kitenge F, Van den Driessche K, Behets F. Disclosure of tuberculosis and HIV status among co-infected patients in Kinshasa, Democratic Republic of Congo. International AIDS Society conference, Mexico, August 2008.
 22. Roger I, Kitenge F, Behets F, **Van Rie A**. Integration of family planning, HIV and TB treatment at primary health care centers in Kinshasa, Democratic Republic of Congo. International AIDS Society conference, Mexico, August 2008
 23. Kitetele F, Edmonds A, Lusiana J, Shabani N, Lelo P, Tshikandu T, Behets F, **Van Rie A**. Severe malaria in HIV-infected children receiving antiretroviral treatment. International AIDS Society conference, Mexico, August 2008
 24. **Van Rie A**, Westreich D, Malope B, Badal-Faesen S, Rubel D, Akiy Z, Henegar C, Maskew M, MacPhail P, Sanne S. Risk Factors for Incident Pulmonary Tuberculosis after the Initiation

- of HAART in the Themba Lethu Clinical Cohort, Johannesburg, South Africa. HIV/AIDS Implementers' Meeting, June 2008, Kampala, Uganda.
25. Westreich D, Badal-Faesen S, Malope B, Rubel D, Akiy Z, Maskew M, MacPhail P, **Van Rie A**, Sanne I. Pulmonary Tuberculosis at Initiation of HAART and Mortality: Experience from the Themba Lethu Clinical Cohort, Johannesburg, South Africa. 2008 HIV/AIDS Implementers' Meeting, June 2008, Kampala, Uganda.
 26. Westreich D, Jonsson Funk M, Maskew M, McPhail P, Malope B, **Van Rie A**, Sanne I. Stavudine substitutions within first-line HAART in the Themba Lethu Clinical Cohort, Johannesburg, South Africa. 2008 HIV/AIDS Implementers' Meeting, June 2008, Kampala, Uganda.
 27. Westreich D, Jonsson Funk M, MacPhail P, Sanne I, **Van Rie A**. Proposal: CD4-adjusted life years for quality of life in HIV cohorts. 12th International Workshop on HIV Observational Databases, Malaga, Spain, March 2008
 28. Westreich D, Nagar S, Malope B, MacPhail B, **Van Rie A**, Sanne I. Pregnancy and HAART in the Themba Lethu Clinical Cohort, Johannesburg, South Africa. 12th International Workshop on HIV Observational Databases, Malaga, Spain, March 2008
 29. Westreich D, Malope B, MacPhail P, Nagar S, **Van Rie A**, Sanne S Risk factors for discordant responses to HAART at Themba Lethu Clinic, Johannesburg, South Africa. Conference on Retroviruses and Opportunistic Infections, Feb 3-8 2008, Boston
 30. Kipp A, Pungrassami P, Sengupta S, Balthip Q, Choonuan S, Kasetjaroen Y, Strauss RP, Chongsuvivatwong V, **Van Rie A**. TB and AIDS stigma among TB patients in Southern Thailand. 38th Union World Conference on Lung Health, Nov 2007, Cape Town, South Africa
 31. Edwards A, Callens S, **Van Rie A**, Behets F. The effect of antiretroviral treatment on incident tuberculosis in HIV-positive children in Kinshasa, DRC. 38th Union World Conference on Lung Health, Nov 2007, Cape Town, South Africa
 32. Kipp A, Pungrassami P, Sengupta S, Balthip Q, Choonuan S, Kasetjaroen Y, Strauss RP, Chongsuvivatwong V, **Van Rie A**. AIDS stigma associated with health seeking delay among Thai TB patients. 38th Union World Conference on Lung Health, Nov 2007, Cape Town, South Africa
 33. Fitzgerald D, Vanden Driessche K, Mulangu S, Bisuta S, Edmonds A, Behets F, Bahati E, **Van Rie A**. Clinical presentation and treatment outcome of TB in HIV infected and uninfected patients in Kinshasa, DRC. 38th Union World Conference on Lung Health, Nov 2007, Cape Town, South Africa
 34. **Van Rie A**, Bisuta S, Sabue M, Vanden Driessche K, Behets F, Kokolomani J, Ngosiema A, Bahati E. Roll-out of Provider-Initiated HIV Counseling and Testing for Patients with Tuberculosis in Kinshasa, Democratic Republic of Congo. HIV/AIDS Implementers' Meeting. June 2007. Kigali, Rwanda
 35. Kipp AM, Stout JE, Dukes Hamilton C, **Van Rie A**. Extrapulmonary Tuberculosis, Human Immunodeficiency Virus, and Foreign Birth, North Carolina, 1993- 2003. presented at IUATLD North America Conference, Vancouver, Feb 2007 and at the American Thoracic Society Conference, San Francisco, May 2007 (Abstract number C103)
 36. Kitetele F, Lusiana J, Callens S, Mbotama C, Akele C, Lelo P, Shabani N, Aketi L, Bokwala C, **Van Rie A**, Behets F. Evaluation of children that received single dose nevirapin for prevention of mother to child prevention of HIV and received care at the KalembeLembe pediatric hospital. Paris, France, March 2007

37. D Westreich, P MacPhail, D Rubel, F Conradie, P Ive, C Firnhaber, B Malope, S Nagar, **A Van Rie**, I Sanne. Experiences providing antiretroviral therapy to adults in Johannesburg: the Themba Lethu Clinical Cohort. Abstract number 10C820. 5th International Workshop on HIV Observational Databases, April 26-27, 2007, Monte Carlo, France
38. Vanden Driessche K, Sabue M, Dufour W, De Coster W, Behets F, Bahati E, Kokolomani J, **Van Rie A**. Evaluation of newly developed training modules to promote integration of HIV activities in TB clinics. Abstract number PS-61664-04. 37th Union World Conference on Lung Health, 31 Oct – 4 Nov 2006, Paris – France.
39. Lusiana J, Callens S, Kitetele F, Lelo P, Behets F, **Van Rie A**. Clinical course of 44 HIV/TB co-infected children from Kinshasa, Democratic Republic of Congo. Abstract number PS-61626-02. 37th Union World Conference on Lung Health, 31 Oct – 4 Nov 2006, Paris – France.
40. Poole C, Sabue M, Atunga W, Behets F, Bahati E, **Van Rie A**. What tasks are performed by TB nurses? Activity sampling study of health care workers in Kinshasa, DRC. Selected for Poster Discussion Session PC-61765-04. 37th Union World Conference on Lung Health, 31 Oct – 4 Nov 2006, Paris – France.
41. Martinot A, Sabue M, Mbulula ML, Jarrett N, Behets F, Bola V, Bahati E, **Van Rie A**. Decreasing the HIV burden among TB patients in Kinshasa: Are the Global Plan to Stop TB targets within reach? Abstract number PS-61760-04. 37th Union World Conference on Lung Health, 31 Oct – 4 Nov 2006, Paris – France.
42. Sengupta S, Punggrassami P, Balthip Q, Choonuan S, Kasetjaroen Y, Strauss RP, Chongsuvivatwong V, **Van Rie A**. Scale development of TB and aids stigma with TB patients in southern Thailand. Abstract number IAS 2006, Toronto, Canada
43. Callens S, Kokolomani J, Kitetele F, Lusiana J, Colebunders R, **Van Rie A**, Behets F. Improving Survival of Children Living with HIV in Resource Poor Settings Requires a Comprehensive Programmatic Response. Abstract CDB1109. International AIDS Society conference 2006, Toronto, Canada.
44. Westreich D, **Van Rie A**. How to target TOPS: Combivir to reduce nevirapine-resistance after PMTCT. A stochastic model. Abstract MOPE0321, International AIDS Society conference 2006, Toronto, Canada
45. Vaz L, Corneli A, Dulyx J, Omba S, Rennie S, Badinga T, Kutumbakana N, Daiku O, Ilaka M, Kalengi K, Kayumba J, Callens S, **Van Rie A**, Behets F. The process of HIV status disclosure to HIV-positive children: Experiences from Kinshasa, Democratic Republic of the Congo (DRC). Abstract TUPE0763, International AIDS Society conference 2006, Toronto, Canada.
46. Corneli A., Vaz L, Dulyx J, Omba S, Rennie S, Badinga T, Kutumbakana N, Daiku O, Ilaka M, Kalengi K, Kayumba J, Callens S, **Van Rie A**, Behets F. Addressing the relationship between informed assent and disclosure of HIV status to HIV-positive children participating in HIV operational research in Kinshasa, DRC: Findings from formative research. Abstract TUPE0757, International AIDS Society conference 2006, Toronto, Canada.
47. Corneli A, Rennie S, Vaz L, Dulyx J, Omba S, Kayumba J, Badinga T, N. Kutumbakana N, Daiku O, Ilaka M, Kalengi K, Callens S, **Van Rie A**, Behets F. Perspectives of minors and caregivers on the rights of minors to be involved in decision making about research participation: Findings from formative research on assent and disclosure for HIV positive children in Kinshasa, DRC. International AIDS Society conference 2006, Toronto, Canada.
48. Callens S, Westreich D, **Van Rie A**, Kitetele F, Lusiana J, Lelo P, Belhorn T, Colebunders R, Behets F. Development and Evaluation of a Visual Dosing Aid to Facilitate Pediatric

- Antiretroviral Treatment Roll Out in Resource Poor Settings. Abstract WEPE0071, International AIDS Society conference 2006, Toronto, Canada.
49. Vanden Driessche K, Sabue M, Ndongosieme A, Behets F, Kokolomani J, Bahati E, **Van Rie A**. How can we assure continuation of HIV Care after Tuberculosis Treatment? Experience from Kinshasa, DRC. World Health organization Global TB/HIV Working Group meeting, August 2006, Toronto, Canada
 50. Martinot A, Sabue M, Mbulula ML, Jarrett N, Behets F, Bola V, Bahati E, **Van Rie A**. Improving Access to HIV Testing and Counseling for TB Patients: A 2005 situation analysis in Kinshasa, Democratic Republic of Congo. Abstract MOPE0650, International AIDS Society conference 2006, Toronto, Canada
 51. **Van Rie A**, Sabue M, Vanden Driessche K, Behets F, Kokolomani J, Bahati E. Diagnostic HIV counseling and testing of TB patients in Kinshasa, Democratic Republic of Congo: from pilot project to evidence-based policy development and roll-out. Selected for Poster Discussion Session, MOKC504, International AIDS Society conference 2006, Toronto, Canada
 52. **Van Rie A**, Sabue M, Tabala M, Llenda F, Mangala R, Atungi W, Kapinga L, Mumpassi A, Mugoyo E, Jarrett N, Westreich D, Behets F, Bahati E. Does knowledge of HIV serostatus among TB patients facilitate access to antiretroviral treatment? Experience from a pilot project in Kinshasa, DRC. Abstract MOPE0640, International AIDS Society conference 2006, Toronto, Canada
 53. Vanden Driessche K, Sabue M, Dufour W, De Coster B, Behets F, Bahati E, Kokolomani J, **Van Rie A**. Development of performance based training materials to reduce the burden of HIV among TB patients in Kinshasa, Democratic Republic of Congo. Abstract CDC2006, International AIDS Society conference 2006, Toronto, Canada
 54. Callens S, Lusiana J, Okitolanda W, Kitetele F, Edidi S, Atashili J, Colebunders R, **Van Rie A**, Behets F. The CDC CD4 classification underestimates the proportion of children in need of antiretroviral treatment in sub-Saharan Africa. 13th conference on Retroviruses and Opportunistic Infections (CROI), February 2006, Denver. Abstract R-170.
 55. Coudeville L, **Van Rie A**. Vaccinating Adolescents and Adults against Pertussis for Limiting Disease Transmission: a Cost-effectiveness Analysis. 45th ICAAC Washington DC, December 2005 Late Breaker Abstract 3748
 56. Corneli AL, Jarrett N, Tabala M, Kimpanga P, Sabue M, Vaz L, Mbulula M, Bahati E, Behets F, **Van Rie A**. Assessing patient and provider perspectives on models of HIV testing and counseling for TB patients in Kinshasa, Democratic Republic of Congo. 36th Union World Conference on Lung Health, 2005, Paris – France. Published in *The International Journal of Tuberculosis and Lung Diseases*. 2005;9: S60
 57. Sengupta S, Pungrassami P, **Van Rie A**. Scale development of TB and HIV/AIDS stigma with TB patients in Southern Thailand. 36th Union World Conference on Lung Health, 2005, Paris – France. Published in *The International Journal of Tuberculosis and Lung Diseases*. 2005;9: S210
 58. Jarrett NM, Sabue M, Tabala M, Kimpanga P, Mbulula M, Bahati E, Behets F, **Van Rie A**. Comparing three models of HIV counseling and testing for TB patients in Kinshasa: a quantitative analysis. 36th Union World Conference on Lung Health, 2005, Paris – France. Published in *The International Journal of Tuberculosis and Lung Diseases*. 2005;9: S302
 59. Coudeville L, **Van Rie A**. Reducing infant cases of pertussis through vaccination: a cost-effectiveness analysis. 5th Pediatric Infectious Disease Society Conference, Napa, California

October 2005.

60. Corneli A, Jarrett N, Tabala M, Kimpenga P, Sabue M, Vaz L, Mbulula ML, Bahati E, Behets F, **Van Rie A**. Patient and Provider Perspectives on Improving Access to HIV Testing and Counseling for TB Patients in Kinshasa, Democratic Republic of Congo (DRC). Abstract No. TuPe7.1C19, Third International AIDS Conference on HIV Pathogenesis and Treatment, Rio de Janeiro, Brazil, July 2005.
61. Vaz L, Behets F, Matendo R, Nanlele D, Kilese N, Callens S, Vanderfaillie A, **Van Rie A**, Kokolomami J. Prevention of Mother to Child Transmission of HIV in Kinshasa, DR Congo: A Pre-Implementation Survey of Essential Antenatal Services in 18 Maternities. Abstract MoPe11.2C26, Third International AIDS Conference on HIV Pathogenesis and Treatment, Rio de Janeiro, Brazil, July 2005.
62. **Van Rie A**, Mupuala A, Nosse N, Zephyrin I. Neurodevelopment of children infected and/or affected by HIV/AIDS in sub-Saharan Africa. Late breaker Poster Presentation. Third International AIDS Conference on HIV Pathogenesis and Treatment, Rio de Janeiro, Brazil, July 2005.
63. Huspeth J, Venter WDF, **Van Rie A**, Wing J, Feldman C. Access to and early outcomes of a public South African adult antiretroviral clinic. 12th conference on Retroviruses and Opportunistic Infections (CROI), February 2005, Boston. Abstract 625a
64. **Van Rie A**, Victor T, Richardson M, Johnson R, van der Spuy G, Gey van Pettus N, Murray E, Beyers N, van Helden P, Warren R. Alternating drug resistance patterns during treatment: acquisition, reinfection or multiple infections? University of Stellenbosch Academic Year Day 2004 (selected as the best poster of the year)
65. **Van Rie A**, Madhi S, Tiemessen C, Heera J, Meddows-Taylor S, Anthony F, Wedelboe A, Violari A. Cellular Immune response to tuberculosis antigens in newborns exposed to HIV in utero. XV International AIDS Conference, July 2004. Bangkok, Thailand. Abstract MoPeA3035.
66. Edward DJ, Kitetele F, **Van Rie A**. Clinical scoring systems for pediatric tuberculosis in the HIV era. XV International AIDS Conference, July 2004. Bangkok, Thailand. Abstract MoPeB3240
67. Callens S, **Van Rie A**, Kitetele F, Vaz L, Vanderfaillie A, Behets F. Don't forget the children: lessons in implementing antiretroviral (ARV) treatment for pediatric populations in resource-constrained settings. XV International AIDS Conference, July 2004. Bangkok, Thailand. Abstract MoPeB4460
68. Kitetele F, **Van Rie A**, Callens S. Apport du score Keith Edwards dans la co-infection tuberculose-VIH. 35th Union World Conference on Lung Health, 2004, Paris – France. Published in *The International Journal of Tuberculosis and Lung Diseases*. 2004; 8: S71
69. Kashamuka M, Simbayi LC, Bahati E, Kabuya G, Fela C, Herman C, Weir S, Ryder R, **Van Rie A**. Population based method for active TB and HIV case finding in difficult to reach, high-risk individuals. 35th Union World Conference on Lung Health, 2004, Paris – France. Published in *The International Journal of Tuberculosis and Lung Diseases*. 2004; 8: S78
70. Kitetele F, Edwards D, Behets F, **Van Rie A**. Diagnosis of pediatric tuberculosis in the HIV era. 35th Union World Conference on Lung Health, 2004, Paris – France. Published in *The International Journal of Tuberculosis and Lung Diseases*. 2004; 8: S180.
71. **Van Rie A**, Zhemkov V, Granskaya J, Steklova L, Narvskaya O, Shpakovskaya L, Masharsky A, Wendelboe AM, Kozlov A, Ryder R, Salfinger M. Characteristics of Active Tuberculosis

cases Co-infected with HIV in St. Petersburg, Russia. 34th Union World Conference on Lung Health, 2003, Paris – France. Published in *The International Journal of Tuberculosis and Lung Diseases*. 2003; 7: S205

72. Bahati E, Kabuya G, Tabala M, Jarret N, Behets F, **Van Rie A**. Feasibility of the 2002 guidelines for external quality assessment for smear microscopy. Experience from Kinshasa, DRC. 35th Union World Conference on Lung Health, 2003, Paris – France. Published in *The International Journal of Tuberculosis and Lung Diseases*. 2004; 8: S56
73. Hethcote H, **Van Rie A**. Comparing New Strategies for Comparing Pertussis Booster Vaccination. Proceedings of the Infectious Disease Society of America 39th annual meeting, 2001. Abstract 388

Oral presentations

1. **XXXXXX**. Introduction and Evaluation of Advanced Rapid Tuberculosis (TB) Diagnostics: Efforts to Improve TB Detection and Susceptibility Testing in Malawi. IDSA, October 2010, Vancouver, Canada
2. John MA, Page-Shipp L, Chakale D, Baloyi P, Menezes C, Sanne I, **Van Rie A**. Diagnostic yield of sputum induction among TB suspects assessed under routine conditions at a hospital 41st Union World Conference on Lung Health, November 2010, Berlin, Germany Abstract number PC-100765-13
3. **Van Rie A**, Page-Shipp L, Lima Voss Y, John MA, Menezes C, Chakale D, Lima Y, Maotoe T, Ian Sanne. High rates of unmasking TB IRIS and ART treatment failure among individuals on ART diagnosed with TB 41st Union World Conference on Lung Health, November 2010, Berlin, Germany Abstract number PC-100775-13
4. McCarthy KM, Scott LE, Gous N, Tellie M, Venter F, Stevens W, **Van Rie A**. Occupational health screening using Tuberculin Skin Testing and Quantiferon Gold among health care workers in high TB exposure settings: Results from a prospective study. 2nd South African TB conference, Durban, South Africa, June 2010.
5. John MA, Page Shipp L, Chakale D, Menezes C, Sanne I, **Van Rie A**. Diagnostic Yield of Sputum Induction among TB Suspects at a Hospital-based TB Focal Point. 2nd South African TB conference, Durban, South Africa, June 2010.
6. **Van Rie A**. Effects of HIV on the neurodevelopment of young infants in Africa. Neuro-AIDS meeting, Cape Town, South Africa, July 23-24 2009.
7. Scott L.E, Fakir P, McCarthy K, Mosendane T, **Van Rie A**, Venter F, Stevens W.S. QuantiFERON-TB Gold In-Tube OD readings around the cut-off value: what do they mean? 2nd Global Symposium on IGRAs, Dubrovnik, Croatia, June 2009
8. McCarthy K, Y Hlaing, Z Hlongwa, M Manyoni, M Mugugadeli, Y Nyathela, N Omar, U Ramkisson. E Steyn, R Suliman, D Wineberg, **A Van Rie**. The impact of South African medical students' TB and HIV knowledge on their participation as subjects in research requiring TB and HIV testing. Research Symposium on HIV/AIDS: Research Action. Nov 2008, Johannesburg, South Africa.
9. **Van Rie A**, Westreich D, Maskew M, Malope B, Badal-Faesen S, Rubel D, Akiy Z, Henegar C, MacPhail P, Sanne S. Incident pulmonary tuberculosis after HAART initiation in the Themba Lethu Clinical Cohort, South Africa. 40th Union World Conference on Lung Health, Oct 2009, Paris – France.
10. **Van Rie A**, Roger I, Edmonds E, Kitenge F, Tabala M, Bola V, Nkiere N, Ndongonsieme A,

- Bahati E, Behets F. Implementation of a primary health care ART model for HIV co-infected TB patients improves treatment outcome. 40th Union World Conference on Lung Health, Oct 2009, Paris – France.
11. Westreich D, Jonsson Funk M, MacPhail P, Malope B, **Van Rie A**, Ian Sanne. “Predictors of all-cause stavudine substitution in the Themba Lethu Clinical Cohort, Johannesburg, South Africa”. 12th International Workshop on HIV Observational Databases, Malaga, Spain, March 2008
 12. Westreich D, Badal-Faesen S, Malope B, Rubel D, Akiy Z, MacPhail P, **Van Rie A**, Sanne I. The impact of tuberculosis on early mortality in the Themba Lethu Clinical Cohort, Johannesburg, South Africa. Conference on Retroviruses and Opportunistic Infections, Boston, Feb 3-8 2008.
 13. **Van Rie A**. Modeling new vaccination strategies for pertussis control. Invited speaker. Advances in Infectious Disease Modelling, Annecy, France, Dec 10-12 2008.
 14. **Van Rie A**. HIV and Tuberculosis – The effect of dual infections. 9th Annual World AIDS Day symposium. Chapel Hill, NC. December 2007.
 15. Westreich D, Jonsson Funk M, MacPhail P, Malope B, **Van Rie A**, Sanne I. Doubly robust estimates of effect of low BMI and late treatment initiation on early outcomes of first-line HAART. Abstract number 10C824. 5th International Workshop on HIV Observational Databases, April 26-27, 2007, Monte Carlo, France
 16. Westreich D, Eron J, Behets F, Van Der Horst C, **Van Rie A**. “Survival of women after nevirapine to prevent vertical transmission of HIV: a stochastic model.” UNC-Center for Women’s Health Research Day, Chapel Hill, NC, April 2006. Winner, UNC Center for Women’s Health Research Award for Excellence
 17. **Van Rie A**. HIV Counseling and Testing in TB clinics – DR Congo: Empowering TB health care workers on the front line. Invited speaker. 37th Union World Conference on Lung Health, 31 Oct – 4 Nov 2006, Paris – France.
 18. Westreich D, **Van Rie A**. “How to target TOPS: Combivir to reduce nevirapine-resistance after PMTCT. A stochastic model” Facing the Challenges of Infectious Diseases in Africa: The Role of Mathematical Modeling. DIMACS workshop, September 25-27, 2006; University of the Witwatersrand, Johannesburg, South Africa
 19. Corneli A, Vaz L, Dulyx J, Omba S, Rennie S, Badinga T, Kutumbakana N, Daiku O, Ilaka M, Kalengi K, Kayumba J, Callens S, **Van Rie A**, Behets F. Addressing the relationship between informed assent and disclosure of HIV status to HIV-positive children participating in HIV operational research in Kinshasa, Democratic Republic of the Congo (DRC): Findings from formative research. Oral Presentation number MOAD0204, IAS 2006, Toronto, Canada, August 2006
 20. **Van Rie A**. Kinshasa, Congo and children with HIV. Invited speaker. Assessment of NeuroAIDS in Africa II conference sponsored by the Center for Mental Health Research on AIDS, National Institute of Mental Health, Arusha, Tanzania on July 17-21, 2006
 21. **Van Rie A**. Neurodevelopment of children infected with HIV/AIDS and the effect of antiretroviral therapy. Invited speaker. Assessment of resources and opportunities for neuroAIDS research in Nigeria, West and Central Africa. Abuja, Nigeria, June 19-20, 2006.
 22. **Van Rie A**. TB and HIV co-infection: translating knowledge into practice in Africa . The UNC Center for Infectious Diseases and the UNC Center for AIDS Research Seminar. April 2005.
 23. Warren_RM, Gey van Pittius NC, Victor T, Streicher E, Johnson R, van der Spuy G,

- Richardson M, Marray E, Beyers N, Verver S, **Van Rie A**, van Helden PD. Who Infected Who and How Many Times? The University of Stellenbosch medical Academic Year Day, July 2005, Cape Town, South Africa.
24. **Van Rie A**, Mupuala A, Nosse N, Zephyrin I. Neurodevelopment of children infected and/or affected by HIV/AIDS in sub-Saharan Africa. Invited speaker. HIV Infection and the Central Nervous System: Developed and Resource Limited Settings. Frascati, Rome June 2005
 25. Cornelli A, Rennie S, Vaz L, **Van Rie A**, Callens S, Kitetele F, Behets F. Disclosure of HIV status to children: developing culturally appropriate guidelines. Society for Applied Anthropologists, Santa Fe, April 2005.
 26. Westreich D, **Van Rie A**, Behets F, Eron J, Van Der Horst C. Nevirapine Resistance and Survival of Women Receiving HAART Subsequent to PMTCT: a Population-Based Stochastic Model. Late Breaker (Oral abstract, # 73LB) at the 12th Conference on Retroviruses and Opportunistic Infections (CROI), Boston, February 2005.
 27. Westreich D, **Van Rie A**, Behets F, Eron J, Van Der Hors Ct. “Nevirapine Resistance and Survival of Women Receiving HAART Subsequent to PMTCT: a Population-Based Stochastic Model.” PMTCT 2005 and Beyond: The Way Forward. Elizabeth Glaser Pediatric AIDS Foundation Think Tank, Washington, DC, February 2005.
 28. **Van Rie A**. *Mycobacterium tuberculosis* reinfection revisited. The UNC Center for Infectious Diseases and the UNC Center for AIDS Research Seminar. December 2004.
 29. Pungrassami P, **Van Rie A**, Q Balthip, R Strauss, Y Kasetjaroen, S Sengupta, A Corneli, V Chongsuvivatwong, Experiences of Tuberculosis Stigma in Muslim and Buddhist Communities of Southern Thailand. Late Breaker Oral Session at the 35th World Conference on Lung Health of the International Union Against Tuberculosis and Lung Disease (IUATLD), Paris, November 2004.
 30. **Van Rie A**. Modelling vaccination strategies for the developing World. Invited speaker. DIMACS workshop, Rutgers University, May 15-18 2004
 31. **Van Rie A**. Starting antiretroviral therapy in Africa. Invited speaker. The 34th World Conference on Lung Health of the International Union Against Tuberculosis and Lung Disease (IUATLD), Paris, November 2003.
 32. Mullen S, Eckert E, **Van Rie A**, Macintyre K, Colvin C, Vincent C, Kosasih I, Hassig S. Towards improved monitoring of national tuberculosis programs: Lessons from the field. Oral presentation at the 131 annual meeting of the American Public Health Association. San Francisco, November 2003
 33. **Van Rie A**. Tuberculosis as a Model to Strengthen Public Health. Invited speaker. The 52nd annual North Carolina TB/respiratory Disease Institute meeting. Black Mountain – July 20, 2002

TEACHING:

Mathematical Modelling of infectious diseases

Graduate students in Epidemiology and Biostatistics (+/- 13)

Lead instructor

Infectious Disease control in developing countries

Graduate students in Epidemiology (+/-20)

Co-instructor (lead instructor: Steve Meshnick)

Fundamentals of Epidemiology

Graduate students in Epidemiology (+/- 80)

Guest lectures on mathematical modeling of infectious disease

Social and Epidemiological aspects of HIV/AIDS

Graduate students in Epidemiology, Maternal and Child health, Health Policy (+/-25)

Guest lecture on TB and HIV

Emerging and Re-Emerging Infectious Diseases

Graduate students in Epidemiology (+/-15)

Guest lectures on TB: epidemiology, pathogenesis and genetics

Child and Family Health

Graduate students in Maternal and Child Health (+/-20)

Guest lectures on maternal and child aspects of HIV

Issues in International Maternal and Child Health

Graduate students in Maternal and Child Health (+/-15)

Guest lecture on maternal and neonatal tuberculosis

Perspectives in Global Health

Graduate and undergraduate students across campus (+/-80)

Guest lectures on tuberculosis: international policy and advocacy

Methods in Infectious Disease Epidemiology

Graduate students in Epidemiology (+/-15)

Guest lectures on mathematical modeling of infectious disease

Infectious Disease at the Community Level

Graduate students in epidemiology (+/-15)

Guest lecture on the contributions of mathematical modeling to insights in TB in the US

Prevention and Control of Infectious Diseases at the Level of the Community

Graduate students in epidemiology (+/- 16)

Guest lecture on tuberculosis and mathematical modeling of tuberculosis in the US.

Infectious Diseases Seminar

Graduate students in epidemiology (+/- 16)

Guest lecture on tuberculosis and discussion of manuscript on tuberculosis control.

Introduction to epidemiology for pediatric residents

Pediatric residents at the University of Leuven Belgium (+/-20)

Research protocol development course

Masters of Public health students, Malawi (+/-20)

STUDENTS

Chair of Doctoral Committee

Aaron Wendelboe: Bordetella pertussis transmission to young infants.

Completed in 2006

Daniel Westreich: Durability of first line antiretroviral treatment in a national HIV treatment program, South Africa

Completed in 2008

Steve Valeika: A second dose of varicella vaccine for control of breakthrough varicella – a mathematical modeling study.
Completed in 2008

Aaron Kipp: Effect of TB stigma on health seeking behavior and treatment completion
Completed in 2009

Anna Dow: Cotrimoxazole prophylaxis for HIV exposed infants and HIV infected pregnant women in Malawi (in progress)

Doctoral Committee member

Jacqueline E. Tate: Estimating the size and examining the overlap of populations at high risk of HIV transmission in central Asia
Completed 2005

Alisa Alker: Molecular markers for drug resistance in Plasmodium falciparum
Completed 2006

Linda Kalilani: Malaria in pregnancy and drug therapies in Malawi
Completed 2007

John Kairalla: Internal pilots with interim analysis
Completed 2007

Marcel Yotebieng: Determinants of the response to antiretroviral therapy in children in resource poor settings
Completed 2010

Andrew Edmunds: Factors influencing immune response to antiretroviral treatment in HIV infected children in Kinshasa, DRC (in progress)

Francesca Conradie (University of the Witwatersrand): Side effects of concomitant treatment for HIV and Multidrug resistant tuberculosis (in progress)

Primary advisor on masters' thesis

Kathleen Ritger: HIV tests uptake among the Latine population in North Carolina Public Health Service.
Completed 2004

Daniel Westreich: Nevirpaine resistance and survival of women receiving HAART subsequent to PMTCT: a stochastic model
Completed 2005

David Edwards: Clinical scoring systems for pediatric tuberculosis in the HIV era
Completed 2006

Aaron Kipp: Extrapulmonary Tuberculosis in North Carolina, the impact of HIV and foreign born status
Completed 2006

David Murdoch: Risk of Pneumonia Among HIV-Seropositive Smokers in the Southeastern United States
Completed 2006

Amanda Martinot: Situation analysis of collaborative TB/HIV activities in Kinshasa
Completed 2006

Dow Anna: Neurodevelopment and HIV/AIDS in Kinshasa, DRC
Completed 2007

Adam Froyum Roise: Monitoring and evaluation of roll-out of collaborative TB/HIV activities
Completed 2007

Sujit Suchindran: MDR TB and HIV: is there an association?
Completed 2007

Kim Moon Young: Association between Past Blood Donation History and Willingness to Donate Blood at the Next Blood Drive
Completed 2008

Patrick Keller: Determining the Annual Risk of TB Infection among Health Care Workers (medical students and nurses) in a Public Hospital in South Africa Using the Interferon Gamma Release Assay
Completed 2008

Nikki Jarret: Improving access to collaborative TB/HIV activities in Kinshasa, Democratic Republic of Congo
Completed 2008

Lara Beth Gadowski: HIV and TB co-infection on North Carolina: factors associated with health care utilization and death.
Completed 2008

Jessica Pittman: Age at first Pseudomonas Aeroginasas infection as a predictor of severity of disease in cystic fibrosis
Completed 2009

Doris Ngemasong: The effect of early initiation of sexual activity on rate of partners in Cameroon
Completed 2010

Cassidy Henegar: The epidemiology of extrapulmonary tuberculosis in sub-Saharan Africa (in progress)

Marlene Knight (University of the Watersrand): Evaluation of the influence of ART on adherence of TB patients using the 'Emum' electronic dose monitoring tool (in progress)

RESEARCH FUNDING

Ongoing Research

TB and HIV screen, test, treat and retain in care model for primary care clinics. (2010-2011)

This study will develop a model to mobilize people to know their HIV and TB status, seek care and remain in care and use the data to develop a randomized clinical trial comparing clinic versus mobile case finding

Funding source: DAIDS/NIH (supplement to Units for HIV/AIDS Clinical Trials Networks)

Role: US Principal Investigator

Integrated TB and AntiRetroviral Treatment (ITART). (2007-2010)

This project assesses the feasibility and impact of a nurse-centered program for integrated TB.HIV care at primary health care clinics in Kinshasa, Democratic Republic of Congo. In this cohort study, over 600 HIV-infected patients have been enrolled.

Funding source: CDC/PEPFAR

Role: Principal Investigator

Impact of malnutrition on TB-IRIS and pharmacokinetics of TB and ARV cotreatment (2008-2013)

This cohort study in Johannesburg, South Africa, aims to determine the incidence of paradoxical and unmasking TB IRIS in children, and studies the immunological pathogenesis of pediatric TB IRIS using a nested case-control design. In addition, a phase II dose finding study of Rifabutin when used concomitantly with protease inhibitors is performed.

Funding source: NICHD/NIH

Role: Principal Investigator

South African TB and AIDS Training Program (2007- 2012)

This program aims to develop the capacity of foreign institutions (University of the Witwatersrand, University of Cape Town and Stellenbosch University) in clinical, operational, and health systems research in the field of TB and HIV.

Funding source: Fogarty/NIH

Role: Investigator

Pediatric HIV-encephalopathy: effect of ART & role of compartmentalization (2006-2013)

This cohort study aims to determine the impact of early infant diagnosis and early infant treatment with antiretroviral drugs on the neurodevelopment (cognitive, motor, language, socio-emotional) of HIV infected children, by comparing their development to that of HIV-exposed, uninfected children and HIV unexposed controls. In addition, a case control study is performed to determine the association between compartmentalization of HIV virus in the central nervous system and the peripheral blood.

Funding source: NICHD/NIH

Role: Principle Investigator

Completed Research

Right to Care comprehensive TB-HIV activities (2007-2010)

This program in Johannesburg, South Africa, assesses integration of TB activities into HIV care and HIV activities into TB care including evaluation of (1) a Department of Health TB Focal Point, a clinic (2) routine diagnostic process used for assessment of extrapulmonary tuberculosis (3) rates of initial default of TB and HIV care following hospital discharge of HIV-infected TB patients; (4) situation analysis of TB/HIV activities in 3 primary health care clinics; (5) impact of Xpert MTB/RIF on the diagnostic process of smear negative TB suspects.

Funding source: USAID/PEPFAR

Role: US Principle Investigator

Evaluation, Monitoring and Coordination of Measure Results Package (2002-2007)

This program aims to develop guidelines, assist countries and build capacity for monitoring and

evaluation of large international public health programs

Funding source: USAID

Role: co- investigator

The Social Stigma of the new TB (2003-2006)

The aim of this research was to develop scales for measurement of TB and HIV stigma and use these scales in a cohort study to determine the association between stigma of TB and HIV , delay in health seeking behavior of patients who are diagnosed with TB, and adherence to TB treatment

Funding source: Fogarty/NIH

Role: Principal Investigator

Durability of first line HAART regimes in a resource poor setting

The aim of this study was to determine the duration of viral suppression in patients initiating first line HAART, and the risk factors for HAART failure

Funding source: DAIDS/NIH

Role: US Principal Investigator

Household transmission of pertussis; who infects young infants? (2003 – 2006)

The aim of this study was to determine the source of infection in young children hospitalized with pertussis and to assess the value of new diagnostics for pertussis infection and disease.

Funding source: Aventis Pasteur

Role: Principal Investigator

Prevalence and characteristics of HIV and TB co-infection in St Petersburg, Russia (2001-2003)

This study aimed to determine the HIV co-infection rate in patients diagnosed with TB

Funding source: NIH/CFAR supplement

Role: investigator

Cellular immune response to BCG vaccination (2002-2003)

The aim of the project is to study the cellular immune response to BCG vaccine in infants born to HIV infected mothers

Funding source: NIH/NAID CFAR core development award

Role: Principal Investigator

Safe pregnancy by infectious disease control (2003-2005)

The aim of the study is to improve management and prevention of HIV, malaria, sexually transmitted diseases and tuberculosis during pregnancy to improve health outcomes in pregnant women and their infants

Funding source: NIH/NICHD Global Network for Women & Child Health Research

Role: co-Investigator

Training researchers in TB and HIV in Southern Africa (2004-2005)

The aim of this planning grant is to create a plan for comprehensive and multidisciplinary training and capacity building in TB/HIV at the Witwatersrand University, Johannesburg, South Africa.

Funding source: NIH/FIC

Role: US principle Investigator

Neurodevelopment and HIV/AIDS (2003-2006)

The aim of the study is to build capacity for neurodevelopmental research in Kinshasa, DRC and to determine the neurological deficit in children affected by AIDS.

Funding source: NIH/FIC/NIMH

Role: Principal Investigator

Technical Assistance for HIV, STD and TB treatment and care in the Democratic Republic of Congo. (2002-2007)

The aims of the projects are 3-fold: Prevention of Mother to Child Transmission of HIV, primary care of HIV/AIDS, ARV treatment of HIV infected adults and children and integration of TB and HIV control programs.

Funding source: CDC

Role: Co- investigator

PROF. SERVICE

Professional active memberships

International Advisory Committee (IAC) for the Integrated HIV Care Initiative	2005 -
World Health Organization (WHO) Global TB/HIV Working Group	2004-
Scientific Advisory Committee for the UNC Center for AIDS Research (CFAR) Developmental Core	2004-
International Union Against Tuberculosis and Lung Diseases (IUATLD) Pediatric TB and TB/HIV working group	2002-

Peer review of manuscripts:

International Journal of Tuberculosis and Lung Disease
Journal of Clinical Microbiology
The Lancet
Lancet Infectious Diseases
Journal of Infectious Diseases
Journal of Virology
Emerging Infectious Diseases
European Journal of Pediatric Neurology
Sexually Transmitted Diseases
Epidemiology and Infection
European Journal of Clinical Microbiology and Infectious Diseases
Pediatrics
PLOS Medicine
BMC Public Health
BMC International Health and Human Rights
BMC Infectious Diseases

Expert Reviews of Anti-Infective Therapy
AIDS and Behavior
Epidemiology
AIDS
Public Health Nutrition
Vulnerable Children and Youth Studies

Peer review of grant proposals

Fund for Innovative DOTS Expansion through Local Initiatives to Stop TB (FIDELIS) (round II, III, V and VI)

MRC South Africa (2005 and 2008)

US Civilian Research and Development Foundation (CRDF) Biomedical; 2008 Competition

National Institute of Health Clinical Trial Planning Grant R34 review September 2008

National Institute of Health Special Emphasis Panel/Scientific Review Group 2009/05 ZRG1 AARR-J (40) P meeting April 2009

National Institute of Health Special Emphasis Panel/Scientific Review Group 2010/01 ZRG1 HDM-E (50) R meeting October 2009

Gates Foundation - Pneumonia Etiology Research for Child Health Scientific Review and Site Selection, November 2009

National Institute AIDS-related Clinical Trials, NIAID, NIH R34/U01 review PAR-05-113 and PAR-06-384, November 2009

Service to UNC

UNC Department of Epidemiology Graduate studies Committee 2002-2003,
2005 -2006

UNC Department of Epidemiology Admission Committee 2003-2009