

CURRICULUM VITAE
KATE CLOUSE

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EDUCATION AND POST-GRADUATE TRAINING

1996-1998 BA, English, *University of North Carolina at Chapel Hill*
2003-2005 MPH, Health Policy and Management, *University of California, Berkeley, School of Public Health*
2008-2012 PhD, Epidemiology, Department of Epidemiology, *University of North Carolina at Chapel Hill Gillings School of Global Public Health*
2012-2013 Postdoctoral Researcher, Department of Epidemiology, *University of North Carolina at Chapel Hill Gillings School of Global Public Health*
Mentors: Dr. Annelies Van Rie and Dr. Audrey Pettifor

PROFESSIONAL EXPERIENCE

2004-2005 Graduate Student Researcher, *Women's Global Health Imperative University of California, San Francisco*
2004 Graduate Student Intern, *Reproductive Health & HIV Research Unit (now MatCH), Durban, South Africa*
2005-2006 Research Assistant, *Women's Global Health Imperative University of California, San Francisco*
2006-2008 Research Analyst, *Women's Global Health Imperative University of California, San Francisco*
2008 Data Review Manager, *Reproductive Health and HIV Research Unit (now WRHI) University of the Witwatersrand, Johannesburg, South Africa*
2009-2010 Graduate Research Assistant, *Department of Epidemiology University of North Carolina at Chapel Hill*
2010 Graduate Teaching Assistant, *Department of Epidemiology University of North Carolina at Chapel Hill*
2010-2012 Epidemiologist/Researcher, *Health Economics and Epidemiology Research Office (HE²RO), University of the Witwatersrand, Johannesburg, South Africa*
2012-2013 Postdoctoral Researcher, *Department of Epidemiology University of North Carolina at Chapel Hill*
2014-2015 Research Assistant Professor of Medicine
Vanderbilt Institute for Global Health
Vanderbilt University Department of Medicine, Division of Infectious Diseases

2015-present Assistant Professor of Medicine
 Vanderbilt Institute for Global Health
 Vanderbilt University Department of Medicine, Division of Infectious Diseases

PROFESSIONAL ACTIVITIES

AWARDS AND HONORS

2004 UC Berkeley Gary K. Stewart Memorial Prize
2004 Bixby Fellowship in Population and Family Planning
2004 UC Berkeley School of Public Health Alumni Association Patricia Buffler Scholarship
2007 UCSF School of Medicine STAR Award
2008 FHI 360-UNC Fellowship
2010 UNC Center for Global Initiatives Pre-Dissertation Award
2011, 2012 International AIDS Society Conference International Scholarship
2011 UNC Department of Epidemiology Rebecca James Baker Scholarship
2012, 2014 CROI Young Investigator Award
2013 UNC Gillings School of Global Public Health's Greenberg Award for Excellence in
 Doctoral Research
2014 Selected for the NIH Centers for AIDS Research (CFAR) Social and Behavioral Science
 Research Network (SBSRN) Mentoring Day

EDITORIAL ACTIVITIES

Peer review activities

AIDS
AIDS Care
AIDS Patient Care and STDs
BMC Health Services Research
BMJ
Clinical Infectious Diseases
Journal of Acquired Immune Deficiency Syndromes
Journal of the International AIDS Society
Journal of Telemedicine and Telecare
Journal of the International AIDS Society
Lancet HIV
PLoS One
Public Health Reports

Grant review activities

2014 Selected for NIH Early Career Reviewer program
2014-2015 Vanderbilt Institute in Research and Ethics (VIRDE) mock review invited reviewer

- 2015 University of Washington Center for AIDS Research (CFAR) New Investigator Award invited reviewer
 2016 Tennessee Center for AIDS Research (TN CFAR) invited reviewer

TEACHING ACTIVITIES

Courses taught

- 2010 Instructor (two semesters), Introduction to Epidemiology for Public Health (Epidemiology 600, online course), Dept. of Epidemiology, The University of North Carolina, Chapel Hill, NC; lead instructor: Dr. Victor Schoenbach

Guest teaching

- 2013 *Reading, Reviewing and Publishing Scientific Literature*, Global Health Research: Epidemiologic Methods II (GLTLTH 706), Duke University Global Health Institute, Durham, NC; lead instructor: Dr. Daniel Westreich
 2014-2016 *Reading, Reviewing and Publishing Scientific Literature*, Vanderbilt Institute in Research and Ethics (VIRDE) month-long course, Vanderbilt Institute for Global Health

Mentoring

- 2014-2016 Bhinnata Piya, Vanderbilt University Masters of Public Health (2016), Global Health Track
 2014-2016 Emily Sheldon, Vanderbilt University Masters of Public Health (2016), Global Health Track
 2015-2016 Christopher Wahlfeld, PhD, Vanderbilt University Masters of Public Health (2017), Global Health Track
 2016 Halle Friedman, College of Charleston B.A. student, summer internship
 2017-2019 Salésio Macuacua, Vanderbilt University Masters of Public Health (2018), Global Health Track
 2017-2019 Cassandra Oliver, Vanderbilt University Masters of Public Health (2018), Epidemiology Track

SERVICE ACTIVITIES

- 2015-present Vanderbilt Institute for Global Health Faculty Search Committee
 2015-present Vanderbilt Institute for Global Health MPH candidate reviewer
 2015, 2016 Vanderbilt University Medical School “Meet the Researcher” invited session
 2016 Judge, Vanderbilt University School of Engineering Design Day

RESEARCH GRANT SUPPORT

ONGOING SUPPORT

- 2015-2019 Principal Investigator, *Population mobility and retention in HIV care among postpartum women in South Africa*, 1K01MH107256-01, NIH/NIMH, \$576,411

This mentored K01 award supports training and research to explore the impact of population mobility on retention in postpartum HIV care and to gather critical information for the development of future interventions to improve retention in HIV care.

- 2016-2017 Co-Principal Investigator, *Women's mobility and the continuum of HIV care in South Africa*, TN Center for AIDS Research (CFAR) Developmental Core Award, \$50,000
This pilot funding supports the development and evaluation of a beta-version smartphone application to support postpartum women along the retention in HIV care cascade and use location data to link patients to facilities in real time.

COMPLETED SUPPORT

- 2012-2013 Post-doctoral researcher, *Optimizing the impact of Xpert MTB/RIF on treatment outcomes of drug resistant TB*, 5R01AI099026-02 (Van Rie, PI), NIH/NIAID
This study will compare important patient outcomes of rifampicin resistant tuberculosis in patients diagnosed with drug resistant TB by culture-based method and the rapid Xpert assay.
- 2012-2013 Post-doctoral researcher, *Optimal dosing of 1st line anti-tuberculosis and antiretroviral drugs in children – a pharmacokinetic study*, 4R01HD069175-02 (McIlleron, PI), NIH/NICHD
This study will evaluate the 2010 WHO dosing recommendations for first line anti-tuberculosis drugs in HIV infected and uninfected children in South Africa and Malawi.
- 2013 Post-doctoral researcher, *Effects of Cash Transfer and Community Mobilization in Young South African Women*, 5R01MH087118-02 (Pettifor, PI), NIH/NIMH
This study will determine the effect of an innovative, multi-level HIV prevention intervention that will jointly address both structural and social factors that contribute to young women's increased vulnerability to HIV. Families of young women will be provided with cash transfers conditional on the young women attending school, with the goal of reducing the young women's HIV risk by keeping her in school by improving her family's economic resources (structural factors).
- 2014-2015 Co-Principal Investigator, *A pilot study of an airtime voucher incentive system for improving retention in postpartum HIV care in South Africa*, 2014 VIGH Internal Proposal Ann Potter Wilson Award
This seed grant (\$8,000) supports a pilot study investigating the feasibility of a voucher incentive intervention aimed at improving retention in postpartum HIV care in South Africa.

PENDING SUPPORT

- 2017-2019 Co-Principal Investigator, *Developing the Connecting a Mobile Population Application (CAMP) to improve postpartum HIV retention and describe population mobility*, NIH/NIMH R21, submitted September 2016, to be reviewed November 13-14, 2016, \$376,056.68, 25% effort
This two-year R21 award aims to engage key stakeholders to develop and evaluate a mobile phone application to assist these women with linkage to new HIV facilities and prospectively describe the mobility of this population. This work will result in development of an application poised for widespread adoption within the public health sector and will inform future health systems strengthening efforts.
- 2017-2019 Principal Investigator, *Exploring the use of RPR syphilis testing to evaluate the HIV continuum of care in pregnant women*, NIH/NIMH R21, to be submitted January 2016, 25% effort

This two-year R21 award seeks to validate the use of RPR syphilis testing data in a national laboratory database in South Africa as an indicator for first antenatal visit. We then will explore HIV continuum of care outcomes among pregnant women and will validate two existing data sources of continuum of care data.

PUBLICATIONS

ARTICLES IN REFEREED JOURNALS

1. Van der Straten A, Moore J, Napierala S, **Clouse K**, Mauck C, Hammond N, Padian N. Consistent use of a combination product versus a single product in a safety trial of the diaphragm and microbicide in Harare, Zimbabwe. *Contraception* 2008; 77 (6): 435-43. [PMID: 18477494](#).
2. Van der Straten A, Sahin-Hodoglugil N, **Clouse K**, Mtetwa S, Chirenje T. Feasibility and acceptability of three cervical barriers among vulnerable young women in Zimbabwe. *J Fam Plann Reprod Health Care* 2010; 36(1): 13-19. [PMID: 20067667](#).
3. **Clouse K**, Montgomery ET, Milford C, Watadzaushe C, Nkala B, Fancher H, Lince N, Cheng H, Thompson M, van der Straten A. Establishing a continuum of care between HIV-prevention trials and public healthcare systems: The MIRA Standard of Care program. *Clinical Trials* 2010; 7(3): 256-264. [PMID: 20421242](#).
4. Page-Shipp L, Voss De Lima Y, **Clouse K**, de Voss J, Evarts L, Bassett J, Sanne I, Van Rie A. TB/HIV at the primary care level: a quantitative assessment at three clinics in Johannesburg, South Africa. *South Afr J HIV Med* 2012; 13(3): 138-143. [PMCID: 4461002](#).
5. **Clouse K**, Page-Shipp L, Dansey H, Moatlhodi B, Scott L, Bassett J, Stevens W, Sanne I, Van Rie A. Implementation of Xpert MTB/RIF for routine point-of-care diagnosis of tuberculosis at the primary care level. *S Afr Med J* 2012;102(10):805-7. [PMID: 23034211](#).
6. Hanrahan CF, Selibas K, Deery C, Dansey H., **Clouse K**, Bassett J, Scott L, Sanne I, Van Rie A. Time to treatment and patient outcomes among TB suspects screened by a single point-of-care Xpert MTB/RIF at a primary care clinic in Johannesburg, South Africa. *PLoS One* 2013;8(6):e65421. [PMCID: PMC3675091](#).
7. **Clouse K**, Pettifor A, Maskew M, Bassett J, Van Rie A, Gay C, Behets F, Sanne I, Fox MP. Patient retention from HIV diagnosis through one year on antiretroviral therapy at a primary health care clinic in Johannesburg, South Africa. *JAIDS* 2013;62(2): e39-e46. [PMID: 23011400](#).
8. **Clouse K**, Pettifor A, Maskew M, Bassett J, Van Rie A, Gay C, Behets F, Sanne I, Fox MP. Initiating antiretroviral therapy when presenting with higher CD4 counts results in reduced loss to follow-up in a resource-limited setting. *AIDS* 2013; 27(4):645-650. [PMID: 23169326](#).
9. Van Rie A, Page-Shipp L, Harrahan C, Bistline K, Dansey H, Bassett J, **Clouse K**, Scott L, Stevens W, Sanne I. Point-of-care Xpert MTB/RIF for smear-negative tuberculosis suspects at a primary care clinic in South Africa. *Int J Tuberc Lung Dis* 2013;17(3)L368-372. [PMID: 23407225](#).
10. **Clouse K**, Pettifor A, Shearer K, Maskew M, Bassett J, Larson B, Van Rie A, Sanne I, Fox MP. Loss to follow-up before and after delivery among women testing HIV positive during pregnancy in Johannesburg, South Africa. *Trop Med Int Health* 2013;18(4):451-460. [PMID: 23374278](#).
11. Van Rie A, **Clouse K**, Hanrahan C, Selibas K, Sanne I, Williams SD, Kim P, Bassett J. High uptake of systematic HIV counseling and testing and TB symptom screening at a primary care clinic in South Africa. *PLoS One* 2014; 9(9):e105428. [PMID: 25268851](#).
12. Fox MP, Shearer K, Maskew M, Meyer-Rath G, **Clouse K**, Sanne I. Attrition through multiple stages of pre-treatment and ART HIV care in South Africa. *PLoS One* 2014; 9(10):e110252. [PMID: 25330087](#).

13. **Clouse K**, Schwartz S, Van Rie A, Bassett J, Yende N, Pettifor A. “What they wanted was to give birth; nothing else”: Barriers to retention in Option B+ HIV care among postpartum women in South Africa. *JAIDS* 2014; 67(1):e12-8. [PMID: 24977376](#).
14. **Clouse K**, Hanrahan CF, Bassett J, Fox M, Sanne I, Van Rie A. Impact of systematic HIV testing on case finding and retention in care at a primary care clinic in South Africa. *Trop Med Int Health*. 2014; 19(12):1411-9. [PMID: 25244155](#).
15. **Clouse K**, Schwartz S, Van Rie A, Bassett J, Vermund S, Pettifor A. High mobile phone ownership, but low internet and email usage among pregnant, HIV-infected women attending antenatal care in Johannesburg. *J Telemed Telecare* 2015; 21(2):104-7. [PMID: 25586808](#).
16. Schwartz S, **Clouse K**, Yende N, Van Rie A, Bassett J, Pettifor A. Acceptability and feasibility of an *mHealth* intervention to retain mothers and infants enrolled in an Option B+ program in postpartum HIV care. *Matern Child Health J*. 2015 Sep;19(9):2029-37. [PMID: 25656728](#).
17. Hanrahan CF, **Clouse K**, Bassett J, Mutunga L, Selibas K, Stevens W, Scott L, Sanne I, Van Rie A. The patient impact of point-of-care vs. laboratory placement of Xpert MTB/RIF. *Int J Tuberc Lung Dis* 2015; 19(7):811-816. [PMID: 26056107](#).

Manuscripts under review:

1. **Clouse K**, Vermund SH, Maskew M, Lurie M, MacLeod W, Malete G, Carmona S, Sherman G, Fox MP. Mobility and clinic switching among postpartum women considered lost to HIV care in South Africa. Submitted to *JAIDS*, October 13, 2016.
2. **Clouse K**, Blevins M, Lindegren ML, Yotebieng M, Dung NT, Omondi A, Michael D, Zannou DM, Carriquiry G, Pettit A. Low implementation of Xpert MTB/RIF among HIV/TB co-infected adults in the International epidemiologic Databases to Evaluate AIDS (IeDEA) program. Submitted to *PLoS One*, September 12, 2016.
3. **Clouse K**, Phillips T, Myer L. Understanding data sources to measure patient retention in HIV care in sub-Saharan Africa. Submitted to *JIAS*, September 2, 2016.
4. Shearer K, **Clouse K**, Meyer-Rath G, MacLeod W, Maskew M, Sanne I, Long L, Fox MP. Citizenship status and engagement in HIV care: an observational cohort study to assess the association between reporting a national ID number and retention in public-sector HIV care in Johannesburg, South Africa. Submitted to *BMJ Open*, August 16, 2016.

ORAL PRESENTATIONS

1. Lauro D, Sheldon W, **Clouse K**. Investing in population and family planning leaders: A brief history. Asia Pacific Conference on Reproductive and Sexual Health. Bangkok, Thailand, October 6-9, 2003.
2. **Clouse K**, Brennan A, Sanne I, Maskew M. Early outcomes of patients initiating standard first-line tenofovir-based ART regimens at a large public-sector HIV clinic in Johannesburg, South Africa. 5th South Africa AIDS conference. Durban, South Africa, June 6-10, 2011.
3. Page-Shipp L, Dansey H, Bassett J, **Clouse K**, Phakathi F, Scott L, Sanne I, Van Rie A. Point-of-care Xpert MTB/RIF for smear-negative TB diagnosis at a primary care clinic in South Africa. 42nd Union World Conference on Lung Health. Lille, France, October 26-30, 2011.
4. **Clouse K**, Page-Shipp L., Dansey H, Scott L, Sanne I, Bassett J, Stevens W, Van Rie A. Implementation of Xpert MTB/RIF for routine point-of-care diagnosis of tuberculosis at the primary care level. USAID TB Working Group quarterly meeting, Johannesburg, South Africa, May 22, 2012.
5. Selibas K, Hanrahan C, Deery C, Dansey H, **Clouse K**, Bassett J, Sanne I, Van Rie A.

Outcomes in a cohort of Xpert-negative TB suspects at a primary care clinic in Johannesburg highlight the need for evidence-based guidelines. 3rd South Africa TB Conference, Durban, South Africa, June 12-15, 2012.

6. **Clouse K**, Page-Shipp L, Dansey H, Scott L, Sanne I, Bassett J, Stevens W, Van Rie A. Implementation of Xpert MTB/RIF for routine point-of-care diagnosis of tuberculosis at the primary care level. 3rd South Africa TB Conference. Durban, South Africa, June 12-15, 2012.
7. **Clouse K**, Lindegren ML, Yotebieng M, Dung NT, Omondi A, Zannou DM, Carriquiry G, Pettit A. Low implementation of Xpert MTB/RIF among HIV/TB co-infected adults: A 19 low/middle income country survey from the IeDEA Consortium. 46th Union World Conference on Lung Health. Cape Town, South Africa, December 2-6, 2015.
8. **Clouse K**, Vermund SH, Maskew M, Malete G, Fox MP. Continuity of care among pregnant women lost to follow-up after initiating ART. Themed discussion: “Mind the Gaps: Optimizing the PMTCT Cascade.” 23rd Conference on Retroviruses and Opportunistic Infections (CROI 2016). Boston, MA, February 26, 2016.

POSTER PRESENTATIONS

1. Milford C, **Clouse K**, Fancher H., Ramjee G. Challenges for seroconverters in HIV prevention trials to access treatment and care: Reported cases from the MIRA trial site in Durban, South Africa. 3rd South African AIDS Conference, Durban, South Africa, June 5-8, 2007.
2. Mtetwa S, Chirenje T, Nyambo V, **Clouse K**, Sahin-Hodoglugil N, van der Straten A, Chirenje M. Feasibility and acceptability of cervical barriers among vulnerable youth in Africa. 3rd South African AIDS Conference. Durban, South Africa, June 5-8, 2007.
3. Van der Straten A, Sahin-Hodoglugil N, Mtetwa S, **Clouse K**, Chirenje T, Nyambo V, Chirenje M. Feasibility and acceptability of cervical barriers among vulnerable youth: a pilot study in Zimbabwe. 4th International AIDS Society Conference on HIV Pathogenesis and Treatment. Sydney, Australia, July 22-25, 2007.
4. Milford C, van der Straten A, **Clouse K**, Blanchard K, Ramjee G. Access to care in HIV prevention trials: The MIRA Standard of Care programme, Durban, South Africa. 4th International AIDS Society Conference on HIV Pathogenesis and Treatment. Sydney, Australia, July 22-25, 2007.
5. **Clouse K**, Montgomery ET, Milford C, Watadzaushe C, Nkala B, Lince N, van der Straten A. The sustainability of care beyond HIV prevention trials: An evaluation of the MIRA standard of care programme. 5th International AIDS Society Conference on HIV Pathogenesis, Treatment and Prevention. Cape Town, South Africa, July 20-22, 2009.
6. **Clouse K**, Page-Shipp L, Phakathi F, Dansey H, Bassett J, Sanne I, Van Rie A. High rates of HIV testing and care among patients suspected of TB at a primary care clinic in Johannesburg, South Africa. 6th International AIDS Society Conference on HIV Pathogenesis, Treatment and Prevention. Rome, Italy, July 17-20, 2011.
7. **Clouse K**, Maskew M, Fox MP, Bassett J, Larson B. Delayed diagnosis of HIV and high rates of loss to follow-up among pregnant women attending antenatal services at a primary health clinic in Johannesburg, South Africa. 19th Conference on Retroviruses and Opportunistic Infections (CROI 2012). Seattle, WA, March 5-8, 2012.
8. **Clouse K**, Pettifor A, Maskew M, Bassett J, Van Rie A, Gay C, Behets F, Sanne I, Fox MP. Initiation of ART at higher CD4 counts under South Africa’s revised antiretroviral therapy guidelines results in improved patient outcomes. 19th International AIDS Conference. Washington, DC, July 22-27, 2012.

9. **Clouse K**, Pettifor A, Maskew M, Bassett J, Van Rie A, Gay C, Behets F, Sanne I, Fox MP. Patient retention at key milestones after HIV diagnosis at a primary health clinic in Johannesburg, South Africa. 19th International AIDS Conference. Washington, DC, July 22-27, 2012.
10. **Clouse K**, Shearer K, Bassett J, Maskew M, Fox MP. Reduced loss to ART initiation among patients initiating cotrimoxazole prophylaxis therapy in Johannesburg, South Africa. 19th International AIDS Conference. Washington, DC, July 22-27, 2012.
11. **Clouse K**, Hanrahan C, Selibas K, Bassett J, Williams SD, Kim P, Sanne I, Van Rie A. High rates of routine TB and HIV screening are achievable and sustainable at a busy primary care clinic. 44th Union World Conference on Lung Health. Paris, France, November 1-3, 2013.
12. **Clouse K**, Hanrahan CF, Bassett J, Qangule N, Matjeke L, Mokonyane S, Sanne I, Van Rie, A. Implementation of routine, opt-out HIV testing does not increase loss to follow-up. 21st Conference on Retroviruses and Opportunistic Infections (CROI 2014). Boston, MA, March 3-6, 2014.
13. Shearer K, **Clouse K**, Evans D, Lince-Deroche N, Firnhaber C, Maskew M, Berhanu R, Long L, Fox MP. Cotrimoxazole use and accelerated immune system recovery among newly initiating HIV-infected patients in an outpatient HIV clinic in Johannesburg, South Africa. 18th International Workshop on HIV Observational Databases (IWHOD). Barcelona, Spain. March 27-29, 2014.
14. **Clouse K**, Shehabi A, Suleimat AM, Faouri S, Khuri-Bulos N, Chappell JD, Fortner K, Aronoff Da, Halasa N. High Prevalence of Group B *Streptococcus* Colonization among Pregnant Women in Amman, Jordan. IDWeek 2015. San Deigo, CA, October 7-11, 2015.
15. **Clouse K**, Vermund SH, Maskew M, MacLeod W, Malet G, Fox MP. Manually linking databases to trace women lost to follow-up after initiating ART during pregnancy. 20th International Workshop on HIV Observational Databases (IWHOD). Budapest, Hungary. April 7-9, 2016.
16. Hopkins MJ, Byram B, Carpenter L, **Clouse K**, Rebeiro PF, Castilho JL, Rogers W, Turner M, Bebawy SS, Pettit AC. Factors associated with postpartum retention in HIV care and virologic suppression among pregnant women in prenatal care. 11th International Conference on HIV Treatment and Prevention Adherence. Ft. Lauderdale, FL, May 9-11, 2016.

INVITED SPEAKER ENGAGEMENTS

1. *Patient retention in HIV care and treatment programs in sub-Saharan Africa*, Department of Epidemiology Grand Rounds, Vanderbilt University, Nashville, TN, September 23, 2014.
2. *REDCap tutorial*, Witkoppen Health and Welfare Centre, Johannesburg, South Africa, January 29, 2015.
3. *The challenges and opportunities for retaining pregnant women in HIV care in South Africa*, The Vanderbilt Pre³ Initiative, Vanderbilt University, Nashville, TN, June 22, 2015.
4. *The challenges and opportunities for retaining pregnant women in HIV care in South Africa*, Vanderbilt Institute for Global Health Grand Rounds, Vanderbilt University, Nashville, TN, August 24, 2015.
5. *The challenges and opportunities for retaining pregnant women in HIV care in South Africa*, Vanderbilt University School of Medicine, Division of Infectious Diseases Grand Rounds, Nashville, TN, March 24, 2016.
6. *Population mobility and retention in HIV care among postpartum women in South Africa*, Vanderbilt University Medical Center Translational Research Forum, Nashville, TN, October 14, 2016.
7. *Retaining a mobile population in HIV care: Implementation Science research in South Africa*, Vanderbilt Center for Clinical Quality and Implementation Research Scholarly Series, Nashville, TN, November 4, 2016.