BIOGRAPHICAL SKETCH

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NAME	POSITION TITLE
Dr. Jennifer S. Smith	Associate Professor
eRA COMMONS USER NAME (credential, e.g., agency login) Jennifer_Smith	

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	MM/YY	FIELD OF STUDY
Amherst College, Amherst, MA	BA	05/91	Chemistry; French
Johns Hopkins University, School of Public Health, Baltimore, MD	MPH	05/95	Population Dynamics
Johns Hopkins University, School of Public Health, Baltimore, MD	PhD	05/00	Epidemiology

A. Personal Statement

My current research focuses on epidemiological studies of human papillomavirus (HPV) infection and cervical cancer prevention worldwide. I have experience in global HPV and cervical cancer research over 18 years, with a strong focus on HPV and cervical cancer screening and treatment. I have conducted several research studies on HPV and cervical cancer screening, both in the US as well as internationally in Kenya, Cameroon, South Africa, China, Cameroon and Madagascar. I have also published over 175 articles in international peer-reviewed journals, of which over 155 are related to HPV infection and HPV-associated diseases, including cervical, anal, vaginal, vulvar and penile cancers. I am an Associate Professor, a mentor for the Fogarty International Clinical Research Scholar program in collaboration with Dr. Youlin Qiao in Beijing China on cancer epidemiology, and for the UNC Cancer Control Education Program. I am also an Associate Editor of *Sexually Transmitted Infections* and on the editorial board of *Sexually Transmitted Diseases.*

I have conducted HPV and cervical cancer research in Kenya since 1995 and in South Africa since 2004. I have also led international research studies and worked collaboratively to evaluate the performance of HPV diagnostic self-collection tests in Kenya and in the United States.

B. Positions and Honors

Positions and Employment

1991	Intern, World Health Organization, Division of Diarrheal and Acute Respiratory Disease Control, Geneva, Switzerland
1992	Researcher, O.R.S.T.O.M., Yaoundé, Cameroon
1991-1992	Thomas J. Watson Fellow, Senegal, la Côte d'Ivoire, Ghana, Togo and Cameroon
1992	Intern, CERPAA, Centre d'Etudes et de Récherches sur les Populations Africaines et Asiatiques, Paris, France
1995	Epidemiologist, Moi University-Johns Hopkins University Collaborative STD Control Project Eldoret, Kenya
1995	Epidemiologist Fellow, The Population Council, Bangkok, Thailand
1992-1997	Family Health International Fellow, United States Agency for International Development, Office of Population, Research Division, Washington, D.C.
1997-2003	Epidemiologist, International Agency for Research on Cancer, Unit of Field and Intervention Studies, Lyon, France
1997-2003	Consultant, Family Health International Fellow, World Health Organization, Reproductive Health and Research Division, Geneva, Switzerland
2004-2009	Research Assistant Professor, Department of Epidemiology, UNC Gillings School of Global Public Health, Chapel Hill, NC
2009-Present	Research Associate Professor, Department of Epidemiology, UNC Gillings School of Global Public Health, Chapel Hill, NC

2013-Present	Associate Professor, Department of Epidemiology, UNC Gillings School of Global Public Health, Chapel Hill, NC

Honors

1987	Sigma Xi Scientific Honors Society
1991	Samuel Houston Citizenship Award Johnson Fellowship for Social Service Work
1991	Thomas J. Watson National Fellowship recipient
1994	Jacob Javitz Graduate Fellowship recipient, The United States Department of Education
1995	Delta Omega National Public Health Honors Society
1998	Chateaubriand Fellowship recipient, French Embassy
2000	Jean Coombs Award, Epidemiology Department, Johns Hopkins University
2003	International Health Professional of the Year, International Biographical Centre, Cambridge, England
2003	Elion Research Award, International Herpes Management Forum
2004	Lineberger Comprehensive Cancer Center Population Sciences Research Award, Chapel Hill, NC
2004-present	Member, UNC Lineberger Comprehensive Cancer Center, Center for Women's Health, Chapel Hill, NC
2004-present	Organizing Committee, International Papillomavirus Society
2009-present	Principal Investigator, Fogarty International Scholars Fellowship Program, CICAMS, Beijing, China
2009-present	Associate Editor, Sexually Transmitted Infections
2009-present	Member, Editorial Board, Sexually Transmitted Diseases
2011-present	Mentor, Cancer Control Education Program, UNC School of Medicine, Chapel Hill

C. Selected Peer-Reviewed Publications (Selected from 174 peer-reviewed publications)

1. Ting J, Mugo N, Kwatampora J, Hill C, Schroeder A, Chitwa M, Patel S, Gakure H, Kimani J, Poole C, **Smith JS**. Performance of HPV-mRNA testing in physician- and self-collected specimens for cervical lesion detection in high-risk women. Sex Transm Dis. 2013 Jul; 40(7):584-589.PMID: 23965776.
2. Sudenga SL, Rositch AF, Otieno WA, **Smith JS**. Knowledge, Attitudes, Practices, and Perceived Risk of Cervical Cancer Among Kenyan Women, brief report. Int J Gynecol Cancer. 2013 Jun; 23 (5): 8985-9. PMCID: PMC3662490.
3. Patel SJ, Mugo NR, Cohen C, Ting J, Nguti R, Kwantampora J, Waweru W, Patnaik P, Donders GG, Kenney DL, Kimani J, Kiviat NB, **Smith JS**. Distribution of human papillomavirus and risk factors for abnormal cervical cytology among female sex workers in Nairobi, Kenya. Int J STD AIDS. 2013 Mar 27. PMID: 23535357.
4. Firnhaber C, Mayisela N, Mao L, Williams S, Swarts A, Faesen M, Levin A, Michelow P, Omar T, Hudgens MG, Williamson AL, Allan B, Lewis DA, **Smith JS**. Validation of cervical cancer screening methods in HIV positive women from Johannesburg South Africa. *PLOS One*. 2013; 8(1):e53494. PMCID: PMC3543403.
5. Atashili J, **Smith JS**, Adimora AA, Eron J, Miller WC, Myers E. Potential impact of antiretroviral therapy and screening on cervical cancer mortality in HIV-positive women in Sub-Saharan Africa: a simulation. *PLoS One*. 2011; 6(4):e18527. PMCID: PMC3070738.
6. Rositch AF, Gatuguta A, Choi RY, Guthrie BL, Bosire R, Kiarie JN, **Smith JS**, Farquhar C. Knowledge and acceptability of pap smears, self-sampling and HPV vaccination among adult women in Kenya. *PloS One,* 2012;7(7):e40766. PMCID: PMC3393696.
7. Firnhaber C, Westreich D, Schulz D, Williams S, Siminya M, Michelow P, Levin S, Faesen M, **Smith JS.** Highly active antiretroviral therapy and cervical dysplasia in HIV-positive women in South Africa. *J Int AIDS Soc.* 2012;15(2):17382. PMCID: PMC3499783.
8. Shi, J. F., Belinson, J. L., Zhao, F. H., Pretorius, R. G., Li, J., Ma, J. F. and **Smith, J. S**. Human papillomavirus testing for cervical cancer screening: results from a 6-year prospective study in rural China. *American journal of epidemiology*, 2009;170(6), 708-716. PMID:19692327.

9. Vidal AC, Murphy SK, Hernandez BY, Vasquez B, Bartlett JA, Oneko O, Mlay P, Obure J, Overcash F, **Smith JS**, van der Kolk M, Hoyo C. Distribution of HPV genotypes in cervical intraepithelial lesions and cervical cancer in Tanzanian women. *Infect Agent Cancer*. 2011;6(1):20. PMCID: PMC3262746.
10. Wu EQ, Liu B, Cui JF, Chen W, Wang JB, Lu L, Niyazi M, Zhao C, Ren SD, Li CQ, Gong XZ, **Smith JS**, Belinson JL, Liaw KL, Velicer C, Qiao YL. Prevalence of type-specific human papillomavirus and pap results in Chinese women: a multi-center, population-based cross-sectional study. *Cancer Causes & Control*, 2013; 1-9.PMID:233397310.
11. Atashili J, Adimora AA, Ndumbe PM, Ikomey GM, Rinas AC, Myers E, Eron J, **Smith JS**, Miller WC. High prevalence of cervical squamous intraepithelial lesions in women on antiretroviral therapy in Cameroon: Is targeted screening feasible? *Cancer Epidemiol.* 2012;36(3):263-9. PMCID: PMC3288586.
12. Backes DM, Bleeker MC, Meijer CJ, Hudgens MG, Agot K, Bailey RC, Ndinya-Achola JO, Hayombe J, Hogewoning CJ, Moses S, Snijders PJ, **Smith JS**. Male circumcision is associated with a lower prevalence of human papillomavirus-associated penile lesions among Kenyan men. *Int J Cancer*. 2012;130(8):1888-97. PMCID: PMC3262059.
13. Zhao FH, Lewkowitz AK, Hu SY, Chen F, Li LY, Zhang QM, Wu RF, Li CQ, Wei LH, Xu AD, Zhang WH, Pan QJ, Zhang X, Belinson JL, Sellors JW, **Smith JS**, Qiao YL, Franceschi S. Prevalence of human papillomavirus and cervical intraepithelial neoplasia in China: A pooled analysis of 17 population-based studies. *International Journal of Cancer*, 2012; *131*(12), 2929-2938. PMID: 22488743.
14. Zhao FH, Lewkowitz AK*, Chen F, Lin MJ, Hu SY, Zhang X, Pan QJ, Niyazi M, Li CQ, Li SM, **Smith JS**, Belinson JL, Qiao YL, Castle PE Pooled analysis of self-sampling HPV DNA test as a cervical cancer primary screening method *J Natl Cancer Inst* 2012; 104 (3): 178-88 PMID: 22271765.
15. **Smith JS**, Van Damme K, Randrianjafisamindrakotroka N, Ting J, Rabozakandraina T, Randrianasolo BS, Raharinivo M, Zanasaotra S, Hobbs M, Rinas A, Cohen M, Gravitt P, Behets F. Human papillomavirus and cervical neoplasia among female sex workers in Madagascar. *Int J Gynecol Cancer*. 2010;20:1593-1596. PMID:21370602.

D. Research Support

ACTIVE

(Smith) 06/1/10 – 04/30/14 0.66 cal month
Duke University $14,001
Disparities in Cervical Cancer Precursors and Deregulation of Imprinted Regulatory Elements
Our central hypothesis is that early exposures to known risk factors increases the risk of deregulation of the epigenome at imprint regulatory elements, thereby increasing the risk of progression to cancer in women infected with 'high risk' HPV. To test this hypothesis, we will recruit and follow 1,500 women with low-grade cervical intra-epithelial neoplasia (CIN1) and identify epigenetic marker; and then test the performance of these markers for the triage of 500 ASCUS cases.

(H. Earp) 09/28/10 – 08/31/14 1.2 cal month
U54 CA156733 $857,847
NCCU-LCCC Partnership in Cancer Research
Evaluation of a Self-Screening Cervical Cancer Test by Mail
African-Americans suffer a disproportionate share of the cancer burden, with overall cancer mortality rate averaging one third higher than Caucasian Americans. This partnership will help address these health disparities by promoting minority-targeted research, and by developing the research infrastructure, capacity, and effectiveness of NCCU
Role: Investigator

(Smith) 09/30/13 – 09/29/14 0.45 cal month
AHRQ $34,984
Issues in Implementation of Adolescent Vaccination in Schools
In order to develop and implement school-located programs, policy makers, public health professionals, and implementing organizations need greater understanding of trends and disparities in HPV-associated cancers and HPV adolescent vaccination coverage, as well as of successes and challenges in the provision of school-located adolescent vaccination.

(Smith) 05/01/13 – 10/31/14 5.4 cal month
GlaxoSmithKline $508,761
Multi-site HPV Vaccine Acceptability Study
Seek to investigate facilitators of and barriers to adolescent vaccine uptake in five countries: Brazil, Malaysia, South Africa, South Korea and Spain. Little is known about the underlying reasons why many young adolescent females in these five countries have not yet been vaccinated. More data are currently needed to examine opportunities as well as barriers to HPV vaccination among parents of unvaccinated adolescent females and among immunization providers for adolescent vaccines, including HPV.

Recently completed

No number (Smith, PI) 10/1/2009 – 9/30/2013
Right to Care $60,146
HPV, cytology and visual inspection validation for cervical cancer screening in HIV-positive women
HIV-seropositive women had three screening tests conducted in a cross-sectional survey (Cytology, VIA and HPV testing), with each screened women served as her own control. Role: Principal Investigator.

5 R01 CA114773-05 (Smith, PI) 9/12/2005 – 6/30/2012
National Cancer Institute $1,838,875.
Effect of Male Circumcision on Human Papillomavirus
MC significantly reduced the risk of HPV acquisition and reinfection, and increased the rate of HPV clearance in the glans for both incident and prevalent infections in a randomized clinical trial of male circumcision. Role: Principal Investigator

3 R01 CA114773-05S2 (Smith, PI) 8/1/2009 – 7/31/2012
National Cancer Institute $301,957
Effect of Male Circumcision on Penile HPV Infection (Administrative Supplement)-ARRA
An administrative supplement Role: Principal Investigator

No number (Smith, PI) 4/15/2010 – 4/14/2013
Hologic/Gen-Probe $120,235.
HPV natural history in high-risk women in Nairobi, Kenya.
This study aimed to determine the influence of other sexually transmitted infections on the natural history of HPV infection and cervical neoplasia in a cohort of high-risk female sexual workers in Nairobi, Kenya. Role: Principal Investigator

No number (Smith, PI) 1/21/2013 – 9/13/2013
JBS International Inc. $10,000
Evidence-based Interventions: Building capacity among CCFA state partners
This project aims to work with six nationwide Cervical Cancer-Free States to identify best practices for increasing female adolescent HPV vaccine uptake on the state-level. Role: Principal Investigator

R21 EY021478 (S. Cole, PI) 9/01/2011 – 8/31/2013
NIH/NEI $181,676
Structural models to untangle triggers of ocular/nonocular herpesvirus recurrence
To quantify effects of sunlight exposure and psychological stress on recurrence of clinical ocular and nonocular herpes simplex virus infections Role: Co-Investigator

No number (Smith-PI) 8/1/2009 – 1/31/2011
Kate B. Reynolds Foundation $250,000.
Study of acceptability of HPV screening using self-collected specimens.
This project aimed to determine the acceptability and result rate of mailed self-collection kits among rural women. Role: Principal Investigator