

CARLEIGH KRUBINER

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EDUCATION

- Ph.D. in Health Policy and Management: Bioethics & Health Policy** 2015
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
Dissertation: *The Ethical Design of Conditional Cash Transfers: Which Strings Attached?*
- B.A. in History & Sociology of Science, Biological Basis of Behavior** 2006
University of Pennsylvania, Philadelphia, PA

HONORS

- Delta Omega Public Health Honor Society – Alpha Chapter** 2016
- Sommer Scholarship, Johns Hopkins University** 2012-2015
- John C. Hume Doctoral Award, Johns Hopkins University** 2011

PROFESSIONAL EXPERIENCE

Center for Global Development, Washington, DC

Policy Fellow 2018-Present

- Lead research efforts to develop a context-specified ethics framework for health priority-setting for National Health Insurance in South Africa
- Conduct research and capacity building to address equity dimensions in health priority-setting processes

Johns Hopkins Berman Institute of Bioethics, Baltimore, MD

Research Scholar & Associate Faculty 2016-Present

- Direct development of multidisciplinary, consensus-driven ethics guidance for vaccine development inclusive of the needs of pregnant women as Project Director of the Pregnancy Research Ethics for Vaccines, Epidemics and New Technologies project
- Conduct expert consultations, chair working group meetings, draft manuscripts, present at international conferences, manage budgets, develop strategic plans, advise on project communications team, and supervise research assistants

Project Manager, Pregnancy & HIV/AIDS: Seeking Equitable Study 2013-2015

- Developed and implemented consultation strategy with biomedical HIV investigators
- Conducted qualitative analysis of findings from HIV investigator consultations
- Oversaw day-to-day project activities, including meeting planning, literature searches, budget management, and communications

Research Assistant, Future Health Systems – Health Systems Ethics 2011-2013

- Developed ethics framework on principles to guide health systems interventions
- Performed literature review and consultations to identify ethics challenges associated with long-term research engagements with communities in LMIC
- Conducted and analyzed in-depth interviews with health systems researchers on the ethics challenges arising in health systems and policy research

Research Assistant, Research Ethics & Ancillary Care Provision in LMIC 2010-2013

- Conducted comprehensive policy review of guidance on the provision of ancillary care

Results for Development Institute, Washington, DC

Senior Program Officer, Health Systems and Financing 2015-2016

- Developed and led workshops on designing health benefits plans for the Joint Learning Network for Universal Health Coverage - Primary Health Care Initiative
- Advised and supported in-country partners and core team members of the Maternal and Child Survival Program on the application of the equity toolkit and resources

Consultant, Center for Health Market Innovations (CHMI) 2014

- Developed methodology and completed comprehensive landscaping of CHMI database of health programs providing empowerment opportunities for nurses and midwives
- Presented findings to the Institute of Medicine Committee for empowering women and strengthening health systems and services through investing in nursing and midwifery

Program Associate, Health Systems and Financing 2009-2010

- Provided research and management support for AIDS2031 products and policy translation efforts in South Africa, Cambodia, and with global multilateral partners
- Conducted literature review of economic impacts of antiretroviral therapy in LMIC to inform model of economic returns on investment for Global Fund-supported programs
- Synthesized case studies on national health insurance reforms in various low and middle income countries, examining population coverage, benefits package, financing, implementation, and monitoring & evaluation

Advisory Board Company, Washington, DC

Research Analyst 2009

- Conducted primary research interviews with senior hospital executives on financing and fundraising initiatives and analyzed interview transcripts

Research Associate 2008

- Synthesized customized research briefs, literature reviews, and informational reports on hospital best practices and health care industry trends
- Analyzed data with in-house experts on hospital service line growth, impact of CMS reimbursement updates, and return on investment for emerging medical technologies

OTHER PROFESSIONAL ACTIVITIES

WHO Working Group for the Plague Vaccine Target Product Profile 2018

CONFERENCES, PANELS, & WORKSHOP PRESENTATIONS

Using Evidence for Decision-Making and Setting Priorities for Health Spending 2019
World Bank, Joint Learning Network Efficiency Collaborative Workshop – New Delhi, India

Navigating Ethics in the Design of Health Benefits: Evidence-Informed Practices to Promote Equitable and Ethical Progress on the Path to UHC. 2019
African Health Economics Association (AfHEA) Conference 2019 – Accra, Ghana

Inclusion of Pregnant Women in the Development and Delivery of Epidemic Vaccines. 2019
Forum of the Division of Microbiology and Infectious Disease (DMID) of the US National Institutes of Health – Bethesda, MD, USA

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| Pregnant Women and Vaccines Against Emerging Pathogens: Ethics Guidance on Inclusive and Responsive Vaccine Development and Deployment - and - | 2018 |
| Ethics of Priority-Setting on the Path to National Health Insurance in South Africa: Public Engagement, Using Social Justice Theories to Assess Impacts on Disadvantage, and Development of an Ethics Framework for Health Priority-Setting <i>World Congress of Bioethics – Bangalore, India</i> | |
| PREVENT initiative - Pregnant Women & Vaccines Against Emerging Epidemic Threats: Ethics Guidance for Preparedness, Research, & Response <i>WHO Strategic Advisory Group of Experts on Immunization – Geneva, Switzerland</i> | 2018 |
| Toward an ethics framework for health priority-setting for NHI in South Africa <i>Priorities2018 International Society on Priorities in Health – Linköping, Sweden</i> | 2018 |
| Incorporating HTA and economic evidence into benefit package design and national essential medicines lists <i>Setting Priorities Fairly: Sustainable policies for effective resource allocation in Africa (iDSI & HTAi) – Accra, Ghana</i> | 2018 |
| What Research Should Be Undertaken to Support Decisions Regarding the Value of Eradicating or Curing Disease? <i>ISPOR 23rd Annual International Meeting – Baltimore, MD</i> | 2018 |
| Pregnant Women and the Vaccine R&D Agenda <i>Annual Conference on Vaccinology Research – Bethesda, MD</i> | 2018 |
| A Bitter Pill: Addressing Health Commodity Purchasing as a Driver of Inefficiency and Inequality <i>3rd Annual UHC Financing Forum: Greater Equity for Better Health and Financial Protection – Washington, DC</i> | 2018 |
| Vaccines, outbreaks, and pregnancy: How vaccine development and deployment can better meet the needs of pregnant women and their offspring <i>World Vaccine Congress – Washington, DC</i> | 2018 |
| Forging a New Paradigm for Public Health Emergency Research that Includes Pregnant Women: What We Can Learn from HIV, Ebola, and Zika <i>American Society of Bioethics and Humanities – Kansas City, MO</i> | 2017 |
| Time to Deliver: Meeting the health needs of pregnant women through vaccine R&D <i>National Academy of Sciences: The Science & Entertainment Exchange – Woods Hole, MA</i> | 2017 |
| Randomizing “most-at-risk” special populations in vaccine trials for emerging infections? <i>Ethical Design of Vaccine Trials in Emerging Infections – Oxford, England</i> | 2017 |
| Ethics guidance for how Zika virus vaccine R&D can and should be responsive to the needs of pregnant women <i>Oxford Global Health and Bioethics International Conference – Oxford, England</i> | 2017 |
| Ethics & Equity Considerations for Health Benefits Design <i>International Seminar on Using Evidence for Decision-Making – Pretoria, S. Africa</i> | 2017 |
| Meeting the Needs of Pregnant Women in the Zika Response: Ethical Inclusion in Vaccine R&D <i>Johns Hopkins International Center for Maternal and Newborn Health Seminar</i> | 2017 |
| Meeting the Needs of Pregnant Women in the Zika Response: Testing and Using a Live Vaccine in Pregnancy? <i>Global Forum on Bioethics in Research – Buenos Aires. Argentina</i> | 2016 |

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| Zika and the Ethical Complexities of Pregnancy: Identifying Priorities for Global Health and Research Communities <i>American Society of Bioethics and Humanities – Washington, DC</i> | 2016 |
| Toward Guidance for Ethically Addressing Pregnant Women in Zika R&D <i>Wellcome Trust Meeting of Zika research grantees – London, England</i> | 2016 |
| Developing ethical criteria for priority setting <i>Priorities 2016 – Birmingham, England</i> | 2016 |
| Human Rights – Entitlements to Health: What does it mean in practice and how can it affect priority setting for UHC <i>Prince Mahidol Award Conference – Bangkok, Thailand</i> | 2016 |
| Improving equitable access to health care through increasing patient and public involvement in prioritisation decisions <i>Brocher Foundation Workshop – Hermance, Switzerland</i> | 2015 |
| Fulfilling rights, realising goals & meeting duties in the drive toward UHC <i>UCL/Wellcome Trust Roundtable – London, England</i> | 2015 |
| Advancing Research on Pregnancy and HIV: Ethics and Engagement <i>American Society for Bioethics and Humanities – San Diego, CA</i> | 2014 |
| Assessing How Strengthening Health Services in LMIC Can Empower Nurses and Midwives: Findings from the Global Landscape <i>Institute of Medicine: Empowering women and strengthening health systems and services through investing in nursing and midwifery – Bellagio, Italy</i> | 2014 |
| Designing Conditional Cash Transfer Schemes <i>DC Health Systems Board – Washington, DC</i> | 2014 |
| The Role of Patient Incentives in Improving HIV Outcomes <i>Johns Hopkins University Center for AIDS Research – Baltimore, MD</i> | 2013 |

PUBLICATIONS

Krubiner CB, Faden RR, Karron RA, Little MO, Lyerly AD, Abramson JS, Beigi RH, Cravioto AR, Durbin AP, Gellin BG, Gupta SB, Kaslow DC, Kochhar S, Luna F, Saenz C, Sheffield JS, Tindana PO, The PREVENT Working Group. Pregnant women & vaccines against emerging epidemic threats: Ethics guidance for preparedness, research, and response. *Vaccine* [In Press].
<https://doi.org/10.1016/j.vaccine.2019.01.011>

Littlejohns P, Chalkidou K, Culyer AJ, ..., Krubiner C, et al. National Institute for Health and Care Excellence, social values and healthcare priority-setting. *Journal of the Royal Society of Medicine*. April 2019. 0(0) 1–7. DOI: 10.1177/0141076819842846

Hecht R, Arias D, Krubiner C. Responsible Resource Allocation, Public Health Stewardship, and Ethics. In: Mastroianni AC, Kahn JP, Kass NE, editors. *The Oxford Handbook of Public Health Ethics*. Oxford University Press. Published Online: Mar 2019. DOI: 10.1093/oxfordhb/9780190245191.013.72

Karron RA, Krubiner CB, Faden RR. As the world prepares to fight Lassa fever, the interests of pregnant women must be part of the planning. *STAT*. January 15, 2019.
<https://www.statnews.com/2019/01/15/lassa-fever-vaccine-pregnant-women>

The Pregnancy Research Ethics for Vaccines, Epidemics, and New Technologies (PREVENT) Working Group. *Pregnant Woman & Vaccines Against Emerging Epidemic Threats (PREVENT): Ethics Guidance for Preparedness, Research and Response*. Available from: vax.pregnancyethics.org.

*Corresponding author: **Carleigh B. Krubiner**

Krubiner CB, The Ethics Working Group on ZIKV Research & Pregnancy. Ethics, Pregnancy, and ZIKV Vaccine Research & Development. *Vaccine*. 2017 Dec 14;35:6819-6822.

Krubiner CB, Faden RR. A Matter of Morality: Embedding Ethics and Equity in the Health Benefits Policy. In: Glassman A, Giedion U, Smith PC, Eds. What's in, what's out: designing benefits for universal health coverage. Washington, DC: Center for Global Development; 2017. p. 290–326. Available from: <https://www.cgdev.org/publication/whats-in-whats-out-designing-benefits-universal-health-coverage>

Krubiner CB, Faden RR. Pregnant women should not be categorized as a “vulnerable population” in biomedical research studies: Ending a vicious cycle of “vulnerability.” *Journal of Medical Ethics*. Published Online First: 17 July 2017.

The Ethics Working Group on ZIKV Research & Pregnancy. Pregnant Women & the Zika Virus Vaccine Research Agenda: Ethics Guidance on Priorities, Inclusion, and Evidence Generation. Baltimore, MD: June 2017. Available from: www.zikapregnancyethics.org. *Corresponding author: **Carleigh B. Krubiner**

Rumbold B, Baker R, Ferraz O, Hawkes S, **Krubiner C**, Littlejohns P, Norheim OF, Pegram T, Rid A, Venkatapuram S, Voorhoeve A. Universal health coverage, priority setting, and the human right to health. *The Lancet*. 2017 Apr 26.

Krubiner CB, Merritt MW. Which strings attached: ethical considerations for selecting appropriate conditionalities in conditional cash transfer programmes. *Journal of Medical Ethics*. 2016 Oct 5:medethics-2016.

Krubiner CB, Faden RR, Cadigan RJ, Gilbert SZ, Henry LM, Little MO, Mastroianni AC, Namey EE, Sullivan KA, Lyster AD. Advancing HIV research with pregnant women: navigating challenges and opportunities. *AIDS*. 2016 Sep 24;30(15):2261-5.

Kieslich K, Ahn J, Chalkidou K, Littlejohns P, **Krubiner C**, et al. Public Participation in Decision-Making on the Coverage of New Antivirals for Hepatitis C. *Journal of Health Organization and Management*. 2016 Aug 15;30(5):769-85.

Hyder AA, **Krubiner CB**. Ethical Challenges in Designing and Implementing Health Systems Research: Experiences from the field. *AJOB Empirical Bioethics*. 2016; 24:1-9.

Krubiner CB, Salmon M, Synowiec C, Lagomarsino G. Investing in nursing and enterprise: Empowering women and strengthening health systems—A landscaping study of innovations in low-and middle-income countries. *Nursing Outlook*. 2016; 64(1):17-23

Krubiner CB, Syed R, Merritt M. Guidance for Provision of Ancillary Care for Community-Based Research Conducted in Low-Resource Settings: The current policy landscape. *IRB: Ethics & Human Research* 2015;37(2):12-19.

Krubiner CB, Hyder AA. A Bioethical Framework for Health Systems Activity: A conceptual exploration applying ‘systems thinking.’ *Health Systems*, 2014; 3(2):124-135.

Hyder AA, Rattani A, **Krubiner CB**, Bachani AM. Ethical Review of Health Systems Research in Low and Middle Income Countries: A Conceptual Exploration. *American Journal of Bioethics*, 2014; 14(2):28-37.

Hyder AA, **Krubiner CB**, Bloom GE, Bhuiya A. Exploring the Ethics of Long-Term Research Engagement with Communities in Low and Middle Income Countries. *Public Health Ethics*, 2012; 5(3):252-262.

Resch S, Korenromp E, Stover J, Blakley M, **Krubiner C**, et al. Economic Returns to Investment in AIDS Treatment in Low and Middle Income Countries. *PLoS ONE*, 2011; 6(10):e25310.