

CURRICULUM VITAE

JENNIFER A. UNGER, MD, MPH

EDUCATION

Undergraduate: Mount Holyoke College
South Hadley, Massachusetts
B.A. Neuroscience, *cum laude*
8/1991 – 5/1995

Graduate: University of Connecticut School of Medicine
Farmington, Connecticut
M.P.H.
7/1996 – 6/1998

Medical School: University of Connecticut School of Medicine
Farmington, Connecticut
M.D.
(Global Health extension)
7/1998 – 5/2003

POSTGRADUATE TRAINING

Fellowship University of Connecticut Health Center
Department of Community Medicine
Farmington, Connecticut
7/1997 - 6/1998

OBGYN Residency Columbia University
New York Presbyterian Hospital
New York, New York
7/2003-7/2005

University of Washington
School of Medicine
Department of Obstetrics & Gynecology
Seattle, Washington
7/2005-6/2007

POSTGRADUATE HONORS AND AWARDS

1997 Graduate Program Fellowship Recipient, University of Connecticut, Farmington, Connecticut

2000 National Health Service Scholar Award, United States Department of Health and Human Services, Washington D.C.

- 2003 Janet M. Glasgow Citation for Academic Excellence, Americans Medical Women's Association
- 2003 Lyman M. Stowe Award for Patient Care and Service, University of Connecticut Farmington, Connecticut
- 2004 Intern Surgical Skills Award, Columbia Presbyterian Hospital, New York, New York
- 2007 Chief Resident Teaching Award, University of Washington, Seattle, Washington
- 2007 Frontiers in Reproduction (FIR) Scholar, Marine Biological Laboratory, Woods Hole, Massachusetts
- 2008 Young Faculty Award, Berlex Foundation, Pittsburgh, Pennsylvania
- 2015 Resident Research Mentor Award, University of Washington, Department of Obstetrics & Gynecology, Seattle, Washington
- 2019 AAMC Early Career Women Faculty Development Seminar, Endorsed Candidate University of Washington, Committee for Women in Medicine and Science

MILITARY SERVICE

N/A

PROFESSIONAL LICENSES AND BOARD CERTIFICATIONS

- 2007-present Physician and Surgeon
MD00048667
State of Washington
- 2010-present Board Certified
American Board of Obstetrics & Gynecology
- 2021-present Physician and Surgeon
MD17513
State of Rhode Island

ACADEMIC APPOINTMENTS

- 2007-2009 Acting Instructor, University of Washington, Department of Obstetrics & Gynecology, Seattle, Washington
- 2009-2011 Clinical Instructor, University of Washington, Department of Obstetrics & Gynecology, Seattle, Washington
- 2011-2015 Acting Assistant Professor, University of Washington, Department of Obstetrics & Gynecology, Harborview Medical Center, Seattle, Washington

- 2015-2016 Adjunct Assistant Professor, University of Washington, Department of Global Health, Harborview Medical Center, Seattle, Washington
- 2015-2021 Assistant Professor, University of Washington, Department of Obstetrics & Gynecology, Harborview Medical Center, Seattle, Washington
- 2016-2021 Assistant Professor, University of Washington, Department of Global Health, Harborview Medical Center, Seattle, Washington
- 2021-2021 Associate Professor, University of Washington, Department of Obstetrics & Gynecology, Department of Global Health, Harborview Medical Center, Seattle, Washington
- 2021-present Affiliate Associate Professor, Department of Global Health, University of Washington Seattle, Washington
- 2021-present Associate Professor, Women and Infants Hospital/ Brown University, Department of Obstetrics & Gynecology, Providence, Rhode Island

HOSPITAL APPOINTMENTS

- 2009-2011 Staff Physician, National Health Service, Yakima Valley Farmworkers Clinic, Toppenish, Washington
- 2009-2011 Staff Physician, Toppenish Community Hospital, Toppenish, Washington
- 2011-2021 Attending Physician, University of Washington, Harborview Medical Center, Seattle, Washington
- 2014-2016 Clinic Director, Columbia Health Clinic, King County, Seattle, Washington
- 2021-present Attending Physician, Women and Infants Hospital, Providence, Rhode Island

LEADERSHIP APPOINTMENTS

- 2014-2021 Associate Director, UW Global Center for Integrated Health for Women, Adolescents and Children, Seattle, Washington
- 2022-present Division Director, Division of Research, Women and Infants Hospital, Brown University Department of OBGYN, Providence, Rhode Island

CONSULTANCY APPOINTMENTS

- 2020-present Consultant, Family Planning Team, Bill and Melinda Gated Foundation, Seattle Washington

Editorial Responsibilities

Journal Reviewer

Obstetrics and Gynecology “The Green Journal”
JMIR mHealth & uHealth
PLOS One
BMC Public Health, Pregnancy and Childbirth, Women’s Health, Health Services
Frontiers

Journal Editor

Frontiers in Reproductive Health

HOSPITAL COMMITTEES

2019-2021	Member, Women’s Reproductive Health Research Grant Advisory Committee, University of Washington
2021-present	Member, Diversity and Equity Committee, Care New England
2021-2022	Member, Division of Urogynecology Division Director Search Committee, Women and Infants Hospital
2021-present	Member, Division of Generalists Division Director Search Committee, Women and Infants Hospital
2021-present	Member, Promotions Committee, Department of OBGYN, Women and Infants Hospital
2021-present	Member, DEI Committee, Department of OBGYN, Women and Infants Hospital

UNIVERSITY COMMITTEES

2008-2021	Member, Institute for Translational Health Sciences, University of Washington
2019-2021	Member, Women in Science and Medicine Committee, University of Washington
2019-2021	Member, Royalty Research Fund Review Committee, University of Washington, Office of Research
2020-2021	Member, Global Health Family Planning Search Committee, University of Washington

MEMBERSHIP IN SOCIETIES

2003-present	Member, Physicians for Reproductive Health
2012-Present	Member, Society for Family Planning

PUBLICATIONS

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Affleck G, Apter A, Tennen H, Reisine S, Barrows E, Willard A, **Unger J**, Zuwallack R. Mood states associated with transitory changes in asthma symptoms and peak expiratory flow. *Psychosom Med* 2000 Jan-Feb;62(1):61-8. PMID: 10705912.
2. **Unger JA**, Whimbey E, Gravett M, Eschenbach DA. The emergence of *Clostridium difficile* infection among peripartum women: a case-control study of a *C. difficile* outbreak on an obstetrical service. *Infect Dis Obstet Gynecol* 2011; 1022:267249. PMID:21811379; PMCID:PMC3146991.
3. Roxby AC, **Unger JA**, Slyker JA, Kinuthia J, Lewis A, John-Stewart G, Walson JL. A lifecycle approach to HIV prevention in African women and children. *Curr HIV/AIDS Rep* 2014 Jun; 11(2):119-27. PMID:24659344; PMCID:PMC4077944.
4. **Unger JA**, Richardson BA, Otieno PA, Farquhar C, Wamalwa D, John-Stewart, GC. Mode of delivery and postpartum HIV-1 disease progression and mortality in a Kenyan cohort. *BMC Pregnancy Childbirth* 2014;14:257. PMID:25086834; PMCID:PMC4133616.
5. **Unger JA**, Matemo D, Pintye J, Drake A, Kinuthia J, McClelland RS, John-Stewart G. Patient-delivered partner treatment (PDPT) for chlamydia, gonorrhea and trichomonas infection among pregnant and postpartum women in Kenya. *Sex Transm Dis* 2015 Nov;42(11):637-42. PMID:26462189; PMCID:PMC4758370.
6. Perrier T, Dell N, DeRenzi B, Anderson R, Kinuthia J, John-Stewart G, **Unger JA**. Engaging pregnant women in Kenya with a hybrid computer-human SMS communication system. *CHI 2015 Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing System*; 1429-143. DOI: 10.1145/2702123.2702124. (no PMID)
7. Patel SJ, Bogear K, Gachuno OW, Kibore M, **Unger JA**, Walker DM. Clinician attendance and delivery practices at hospital-based vaginal deliveries in Western Kenya. *Int J Gynaecol Obstet* 2016 May;133(2):168-72. PMID:26873124.
8. Nie J, **Unger JA**, Thompson S, Hofstee M, Gu J, Mercer MA. Does mobile phone ownership predict better utilization of maternal and newborn health services? A cross-sectional study in Timor-Leste. *BMC Pregnancy Childbirth* 2016 Jul 23;16(1):183. PMID:27448798; PMCID:PMC4958409.
9. Kinuthia J, Richardson BA, Drake AL, Matemo D, **Unger JA**, McClelland RS, John-Stewart G. Sexual behavior and vaginal practices during pregnancy and post-partum: Implications for HIV prevention strategies. *J Acquir Immune Defic Syndr* 2017 Feb 1;74:142-9. PMID:27828872.
10. Pintye J, Drake AL, **Unger JA**, Matemo D, Kinuthia J, McClelland RS, John-Stewart G. Male partner circumcision associated with lower *Trichomonas vaginalis* incidence among pregnant and postpartum Kenyan women: a prospective cohort study. *Sex Transm Infect* 2017 Mar;93(2):137-43. PMID:27519258.
11. Pintye J, Drake AL, Kinuthia J, **Unger JA**, Matemo D, Heffron R, Barnabas R, Kohler P, McClelland RS, John-Stewart G. A risk assessment tool for identifying pregnant and postpartum

women who may benefit from pre-exposure prophylaxis (PrEP). *Clin Infect Dis* 2017 Mar 15;64(6):751-58. PMID:28034882.

12. Drake AL, **Unger JA**, Ronen K, Matemo D, Perrier T, DeRenzi B, Richardson BA, Kinuthia K, John-Stewart G. Evaluation of mHealth strategies to optimize adherence and efficacy of Option B+ prevention of mother-to-child HIV transmission: rationale, design and methods of a 3-armed randomized controlled trial. *Contemp Clin Trials*. 2017 Jun;57:44-50. PMID:2831540
13. Bhat A, Reed S, Mao J, Vredevoogd M, Russo J, **Unger J**, Rowles R, Unutzer J. Delivering perinatal depression care in a rural obstetric setting: a mixed methods study of feasibility, acceptability and effectiveness. *J Psychosom Obstet Gynaecol* 2017 Sep 7:1-8. PMID:28882096.
14. Achwoka D, Pintye J, McGrath CJ, Kinuthia J, **Unger JA**, et al. Collaborative HIV Impact on MCH Evaluation (CHIME) Study Team. Update and correlates of contraception among postpartum women in Kenya: results from a national cross-sectional survey. *Contraception* 2018 Mar; 97(3): 227-235. PMID:29031815.
15. **Unger JA**, Kinuthia J, John-Stewart G. Texting condolences: Adapting mHealth programs after unexpected pregnancy and infant outcomes. *JMIR Mhealth Uhealth* 2017 Dec 8;5(12):e176. PMID:29222078.
16. Ronen K, **Unger JA**, Drake AL, Perrier T, Akinyi P, Osborn L, Matemo D, O'Malley G, Kinuthia J, John-Stewart G. SMS messaging to improve ART adherence: perspectives of pregnant HIV-infected women in Kenya on HIV-related message content. *AIDS Care*. 2017 Dec 18:1-6. PubMed PMID: 29254362.
17. Bhat A, Mao J, Unutzer J, Reed S, **Unger JA**. Text messaging to support a perinatal collaborative care model for depression: a mixed methods inquiry. *Gen Hosp Psychiatry* 2018, Jan 31; 52:14-20. PMID: 29494854.
18. Velonjara J, Crouthamel B, O'Malley G, Wiggins M, Matemo D, John-Stewart G, **Unger JA**, Kinuthia J, Drake A. Motherhood increases support for family planning among Kenyan adolescents. *Sex Reprod Healthc* 2018, Jun; 16: 124-131. PMID: 29804756; PMCID: PMC5975971.
19. Perrier T, Harrington E, Ronen K, Matemo D, Kinuthia J, John-Stewart G, Anderson R, **Unger J**. Male Partner Engagement in Family Planning SMS Conversations at Kenyan Health Clinics. 2018 Compass June 20-22 Association for Computing Machinery. <https://doi.org/10.1145/3209811.3209857>
20. **Unger JA**, Ronen K, Perrier T, DeRenzi B, Slyker J, Drake A, Mogaka D, Kinuthia J, John-Stewart G. SMS communication improves exclusive breastfeeding and early postpartum contraception in a low to middle income country setting. *BJOG* 2018 Nov; 125(12): 1620-1629. PMID 29924912.
21. Gimbel S, Kayakyu N, Dau H, **Unger JA**. A missing link: HIV/AIDS-related mHealth interventions for health workers in low- and middle- income countries. *Curr HIV/AIDS Rep* 2018 Sept 26. PMID: 30259258.

22. Warr AJ, Pintye J, Kinuthia J, Drake AL, **Unger JA**, et al. Sexually transmitted infections during pregnancy and subsequent risk of stillbirth and infant mortality in Kenya: a prospective study. *Sex Transm Infect* 2018 Sept 18. PMID: 30228109.
23. Harrington EK, McCoy EE, Drake AL, Matemo D, John-Stewart G, Kinuthia J, **Unger JA**. Engaging men in an mHealth approach to support postpartum family planning among couples in Kenya: a qualitative study. *Reprod Health* 2019 Feb 11;16(1):17. PMID 30744697.
24. Velloza J, Ngure K, Kiptinness C, Quame-Amaglo J, Thuo N, Dew K, Kimani M, Gakuo S, **Unger JA**, Kolko B, Baeten JM, Celum C, Mugo N, Hefron R. A clinic-based tablet application to support safer contraception among HIV serodiscordant couples in Kenya: feasibility and acceptability study. *mHealth* 2019; 5:4. PMID: 30976596.
25. Harrington EK, Drake AL, Ronen K, Matemo D, Osofi A, John-Stewart G, Kinuthia J, **Unger JA**. The effect of an mHealth SMS dialogue intervention on postpartum contraceptive use among women and couples in Kenya: A randomized controlled trial. *Am J Public Health*. 2019 Jun; 109(6):934-941. PMID: 31067089
26. Dev R, Woods N, **Unger JA**, Kinuthia J, Matemo D, Farid S, Kohler P, Drake A. Acceptability, feasibility and utility of a mobile health family planning decision aid for postpartum women in Kenya. *Reproductive Health* 2019, Jul. PMID: 31286989
27. Dev R, Kohler P, Feder M, **Unger JA** et al. A systematic review and meta-analysis of postpartum contraceptive use among women in low- and middle-income countries. *Reprod Health* **16**, 154 2019 PMID: 31665032
28. Lewis K, Harrington EK, Matemo D, Drake AL, Ronen K, O'Malley G, Kinuthia J, John-Stewart G, **Unger JA**. Utilizing perspectives from HIV-infected women, male partners and healthcare providers to design family planning SMS in Kenya: A qualitative study. *BMC Health Serv Res*. 2019, Nov 21; 19(1):870. PMID: 31752872
29. Pintye J, Rogers Z, Kinuthia J, Mugwanya K, Abina F, Laga H, Sila J, Kemunto V, Baeten J, John-Stewart G, **Unger JA**. Two-way short message communication may increase pre-exposure prophylaxis continuation and adherence among pregnant and postpartum women in Kenya. *Glob Health Sci Pract*. 2020 March. PMID: 32139420.
30. Fuchs E, Dwiggin M, Lokken E, **Unger JA**, Eckert L. Influence of sexually transmitted infections in pregnant adolescents on preterm birth and chorioamnionitis. *Infect Dis Obstet Gynecol*. 2020 April. PMID: 32273674.
31. Achieng C, Masheti M, Goodman J, Tickell K, Diakhate M, **Unger J**, et al. Developing Caregiver Led mHealth Solutions for Screening and Managing Childhood Wasting in the Mama Aweza Trial in Kenya. *Curr Dev Nutr* 2020 Jun; 4(Suppl 2):797. PMID: PMC7258436.
32. Chen Y, Ronen K, Matemo D, **Unger JA**, Kinuthia J, John-Stewart G, Levin C. A Cost Analysis of an Interactive SMS Intervention to Improve Adherence to Option B+ Prevention of Mother-to-child HIV Transmission in Kenya. *JMIR mHealth and uHealth*. 2020 August. PMID: 33006562
33. Tickell KD, Diakhate MM, Goodman JL, **Unger JA**, Richardson BS, et al. Impact of a two-way short message service (SMS) to support maternally administered childhood mid-upper arm

circumference monitoring and expand malnutrition screening in Kenya: The Mama Aweza Trial Protocol. *BMJ Open*. 2020 August. PMID: 32963066

34. Jiang W, Osborn L, Drake AL, **Unger JA**, Matemo D, Kinuthia J, John-Stewart G, Ronen K. Recent Diagnosis, Lower Rates of HIV Disclosure, and High Technology Access in Pregnant Adolescent Girls and Young Women living with HIV: A Descriptive Study. *J Assoc Nurses AIDS Care* 2020 Oct 27. PMID: 33136655.
35. Drake AL, Rothschild C, Jiang W, Ronen K, **Unger JA**. Utility of Short Message Service (SMS) for Remote Data Collection for HIV in Low- and Middle-Income Countries. *Curr HIV/AIDS Rep* 2020 Dec;17(6):654-6662. Epub 2020 Oct 3. PMID: 33010003.
36. Chen U, Ronen K, Matemo D, **Unger JA**, Kinuthia J, John-Stewart G, Levin C. An Interactive Text Messaging Intervention to Improve Adherence to Option B+ Prevention of Mother-to-Child HIV Transmission in Kenya: Cost Analysis. *JMIR Mhealth Uhealth* 2020 Oct 2;8(10):e18351. PMID: 33006562.
37. Rothschild C, Richardson B, Guthrie BL, Kithao P, Omurwa T, Mukabi J, Lokken EM, John-Stewart G, **Unger JA**, Kinuthia J, Drake AL. A risk score for predicting Kenyan women at high risk of contraceptive discontinuation. *Contraception: X* 2020 Oct. PMID: 33294838.
38. Jiang W, Osborn L, Drake AL, **Unger JA**, Matemo D, Kinuthia J, John-Stewart G, Ronen K. Recent Diagnosis, Lower Rates of HIV Disclosure, and High Technology Access in Pregnant Adolescent Girls and Young Women Living With HIV: A Descriptive Study. *J Assoc Nurses AIDS Care*. 2021 Mar-Apr 01;32(2):205-213. PubMed PMID: 33136655;
39. Ravindran J, Richardson B, Kinuthia J, **Unger JA**, Drake AL, Osborn L, Matemo D, Patterson J, McClelland RS, John-Stewart G. Chlamydia, gonorrhoea, and incident HIV infection during pregnancy predict preterm birth despite treatment. *J Infect Dis*. 2021 May 23. PMID: 34023871.
40. Kinuthia J, *Ronen K, **Unger JA**, Jiang W, Matemo D, Perrier T, Osborn L, Chohan BH, Drake AL, Richardson BA, John-Stewart G. SMS messaging to improve retention and viral suppression in prevention of mother-to-child HIV transmission (PMTCT) programs in Kenya: A 3-arm randomized clinical trial. *PLoS Med*. 2021 May;18(5). PMID: 34029338.
41. Harrington EK, Casmir E, Kithao P, Kinuthia J, John-Stewart G, Drake AL, **Unger JA**, Ngure K. "Spoiled" girls: Understanding social influences on adolescent contraceptive decision-making in Kenya. *PLoS One*. 2021;16(8):e0255954. PMID: 34383836
42. Chohan BH, Ronen K, Khasimwa B, Matemo D, Osborn L, **Unger JA**, Drake AL, Beck IA, Frenkel LM, Kinuthia J, John-Stewart G. Food insecurity, drug resistance and non-disclosure are associated with virologic non-suppression among HIV pregnant women on antiretroviral treatment. *PLoS One*. 2021;16(8):e0256249. PMID: 34407133.
43. Gewali A, Lopez A, Dachelet K, Healy E, Jean-Baptiste M, Harridan H, Evans Y, **Unger JA**, Bhat A, Tandon D, Ronen K. A Social Media Group Cognitive Behavioral Therapy Intervention to Prevent Depression in Perinatal Youth: Stakeholder Interviews and Intervention Design. *JMIR Ment Health*. 2021 Sep 15;8(9):e26188. PMID: 34524086.

44. Rothschild C, Richardson B A, Guthrie BL, Kithao P, Omurwa T, Mukabi J, Callegari LS, Lokken EL, John-Stewart G, **Unger JA**, Kinuthia J, Drake AL. Contributions of side effects to contraceptive discontinuation among Kenyan women BJOG. 2021 Nov 28. PMID: 34839583.
45. Ronen K, Choo EM, Wandika B, Udren JI, Osborn L, Kithao P, Hedstrom AB, Masinde M, Kumar M, Wamalwa DC, Richardson BA, Kinuthia J, **Unger JA**. Evaluation of a two-way SMS strategy to reduce neonatal mortality: rationale, design and methods of the Mobile WACH NEO trial randomized controlled trial in Kenya. BMJ Open. 2021 Dec 23;11(12):e056062. PMID: 34949631
46. Jiang W, Ronen K, Osborn K, Drake AL, **Unger JA**, Matemo D Enquobaharie DA, Kinuthia J, John-Stewart G. Predictors of adverse pregnancy outcomes among Kenyan women with HIV on antiretroviral treatment in pregnancy. AIDS. 2022 Jun 1.36(7) 1007-1019. PMID:
47. Larson AM, Osborn L, Ronen K, Richardson BA, Jiang W, Chohan B, Matemo D, Drake AL, **Unger JA**, Kinuthia J, John-Stewart G. Trajectories of depression symptoms from pregnancy through 24 months postpartum among Kenyan women living with HIV/AIDS. J Acquir Immune Defic Syndr 2022 Aug 15;90(5):473-481. PMID: 35394987.
48. Hedstrom A, Choo E, Ronen K, Wandika B, Jiang W, Osborn L, Batra M, Wamalwa D, John-Stewart J, Kinuthia J, **Unger JA**. Risk factors for stillbirth and neonatal mortality among participants in Mobile WACH NEO pilot, a two-way SMS communication program in Kenya. PLOS Global Public Health. 21 JUL 2022. PMCID: PMC29222078.
49. Hummel A, Ronen K, Bhat A, Wandika B, Choo E, Osborn L, Batra M, Kinuthia J, Kumar M, **Unger JA**. Perinatal depression and its impact on infant outcomes and maternal-nurse communication in a cohort of Kenyan women. BMC Pregnancy and Childbirth, (22) 723 (2022) 22 Sep 2022. PMID: 36138357
50. Jiang W, Ronen K, Osborn K, Drake AL, **Unger JA**, Matemo D, Richardson B, Kinuthia J, John-Stewart G. Programmatic retention in Prevention of Mother-to-Child Transmission (PMTCT) programs: Estimated rates and cofactors using different nonretention measures. J Acquir Immune Defic Syndr, 2023 Feb 1;92(2):106-114. PMID: 36215980
51. Mogaka Nyabiage , Otiena F, Akim E, Beima-Sofie K, Dettinger J, Gomez L, Marwa M, Odhiambo B, Ngure K, Ronen K, Sharma M. John-Stewart G, Richardson B, Stern J, **Unger JA**, Udren J, Watoyi S, Pintye J, Kinuthia J. A text messaging-based support intervention to enhance pre-exposure prophylaxis for HIV prevention adherence during pregnancy and breastfeeding: protocol for a randomized trial. JMIR Res Protoc 2023; 12:e41170. PMID: 36716092

BOOKS AND BOOK CHAPTERS

Lewis J, **Unger, JA**, Fichtner L, Hurley M, DelGaudio MB, Plessy B. Twenty-five years of collaboration between the University of Connecticut Health Center and Hartford Public Schools. Metropolitan University: An International Forum 2000;11:48-58.

ABSTRACTS

International

1. **Unger JA**, DeRenzi B, Kinuthia J, Ryan S, Newman M, Borriello G, John-Stewart G. Mobile phone one way short message service (SMS) versus SMS dialogue for women's and children's health (MOBILE WaCH) in Kenya: a randomized control trial. Oral presentation at the STD/ AIDS Collaborative Group Annual Meeting, 2013, Nairobi, Kenya.
2. Kinuthia J, Odem-Davis, K, Wagner A, Drake A, Matemo D, **Unger JA**, McClelland RS, John-Stewart G. Sexual behavior and vaginal practices during pregnancy and postpartum: Implications for HIV prevention strategies. Presented at the International AIDS Society, July 2013, Kuala Lumpur, Malaysia.
3. Drake A, Kinuthia J, Matemo D, **Unger JA**, John-Stewart G. Prevalence and cofactors for STIs among pregnant adolescents in Western Kenya. Poster presentation at the International Society for Sexually Transmitted Diseases, July 2013, Vienna, Austria
4. **Unger JA**, Matemo D, Kinuthia J, Drake A, John-Stewart G. Expedited Partner Therapy (EPT) for Sexually Transmitted Infections Among Pregnant and Postpartum Women in Kenya. Presented at the STD/ AIDS Collaborative Group Annual Meeting, 2014, Nairobi, Kenya.
5. **Unger JA**, Perrier T, DeRenzi B, Kinuthia J, Ryan S, Mogaka D, Borriello G, John-Stewart G. Mobile WACH: Developing and evaluating a human-computer hybrid mobile messaging system for women's and children's health in Kenya. Presented at the WHO STD/ AIDS Collaborative Group Annual Meeting, 2015, Nairobi, Kenya.
6. Drake A, Pintye J, Odongo, B, **Unger JA**, Kiuthia J, McGrath C, Obudha N, Langat A, John-Stewart G. Uptake of highly effective contraception among HIV-infected postpartum women in Kenya: results from a national survey. Presented at the International AIDS Society, July 2015, Vancouver, Canada.
7. **Unger JA**, Perrier T, DeRenzi B, Kinuthia J, Ryan S, Mogaka D, Borriello G, John-Stewart G. Mobile WACH: Developing and evaluating a human-computer hybrid mobile messaging system for women's and children's health in Kenya. Oral presentation at the 2015 World Congress of the International Federation of Gynaecology and Obstetrics (FIGO), October 2015, Vancouver, Canada.
8. **Unger JA**, Ronen K, Wandika B, Ronen K, Osborn L, Kithao P, Moraa J, Mugodo G, Mwendu W, Okota J, Mukenyi Nzove E, Masinda M, Richardson B, Kinuthia J, Hedstrom A. Mobile WACH NEO, a randomized controlled trial on the effect of interactive text messaging on neonatal mortality in Kenya. *University of Nairobi STD/HIV/SRH Collaborative Research Group Annual Review Meeting*. Jan 2023.
9. Sijenje E, Shrestha P, Owade W, Jha N, Pothan L, Waweru E, Apondi V, Amulele M, Mugwanya R, Osborn L, Ranson T, **Unger JA**, Masinde M, Hedstrom A, Owiti G, Murphy S, Dettinger J, Williams B, Olago A, Holeman I, Rubin Means A, Weiner B, Wasunna B, Mukumbang F, Ronen K, Kinuthia J. "The role of health system digitization: A qualitative analysis exploring stakeholders' perceptions on the role of digitized health system structures in Western Kenya" *University of Nairobi STD/HIV/SRH Collaborative Research Group Annual Review Meeting*. Jan 2023. Speaker Presentation.
10. Shrestha P, Ranson T, Pothan L, Sijenje E, Owade W, Jha N, Waweru E, Apondi V, Amulele M, Mugwanya R, Osborn L, **Unger JA**, Masinde M, Hedstrom A, Owiti G, Murphy S, Dettinger J,

Williams B, Olago A, Holeman I, Rubin Means A, Weiner B, Wasunna B, Mukumbang F, Ronen K, Kinuthia J. Identifying potential disparities in access and delivery of SMS-based healthcare service (CHV-NEO) in Kenya using the ASPIRE framework. *University of Nairobi STD/HIV/SRH Collaborative Research Group Annual Review Meeting*. Jan 2023. Poster Presentation.

11. Apondi V, Pothan L, Owade W, Jha N, Shrestha P, Sijenje E, Waweru E, Amulele M, Mugwanya R, Osborn L, Williams B, Weiner B, Masinde M, Hedstrom A, Holeman I, Rubin Means A, Mukumbang F, Dettinger J, Olago A, **Unger JA**, Wasunna B, Kinuthia J, Ronen K. Protocol for the Evaluation of Integrated Community-based Digital Communication to Support Neonatal Health: Rationale, Design, and Methods of the CHV-NEO study in Western Kenya. *University of Nairobi STD/HIV/SRH Collaborative Research Group Annual Review Meeting*. Jan 2023. Speaker Presentation.
12. Pothan L, Waweru E, Owade W, Sijenje E, Shrestha P, Jha N, Apondi V, Amulele M, Mugwanya R, Osborn L, Ranson T, **Unger JA**, Masinde M, Hedstrom A, Owiti G, Murphy S, Dettinger J, Williams B, Olago A, Holeman I, Rubin Means A, Weiner B, Kinuthia J, Ronen K, Wasunna B, Mukumbang F. Challenges, strengths, and perceptions of integrating interactive direct to client SMS communication into community health volunteer workflows in Western Kenya. *University of Nairobi STD/HIV/SRH Collaborative Research Group Annual Review Meeting*. Jan 2023.
13. Udren J, Wandika B, Ronen K, Kithao P, Moraa J, Mugodo G, Mwendu W, Okota J, Osborn L, Mukenyi Nzove E, Masinda M, Richardson B, **Unger JA**, Kinuthia J, Hedstrom A. Experience conducting verbal autopsy via phone for neonatal deaths and stillbirths in the Mobile WACH NEO randomized controlled trial in Kenya. *University of Nairobi STD/HIV/SRH Collaborative Research Group Annual Review Meeting*. Jan 2023.

National

1. Lewis J, **Unger JA**, Brown Lindsay S, Tessema B. Preparing medical students to teach in an urban cross cultural setting. Presented at the Community Campus Partnerships in Health Annual Conference, 2000, Seattle, Washington.
2. **Unger JA** and Duffy, P. Quantification and localization of interferon gamma and ferritin in malaria infected and uninfected placentas and their association with intrauterine growth restriction (IUGR). Presented at the Infectious Disease Society of Obstetrics and Gynecology Annual Conference, August 2008, Boston, Massachusetts.
3. Amies Oelschlager AM, **Unger JA**, Mitchell C, Chiang S. Meeting the ACGME competencies abroad: the development of a global health elective for OB/Gyn residents. Presented at the APGO/CREOG Annual Meeting, 2009, San Diego, California
4. Prabhu M, **Unger JA**, Drake A, Odem-Davis K, Merkel M, Kinuthia J, Balkus, J, John-Stewart G. The Performance of Syndromic Criteria and Amsel's Criteria in the Diagnosis of Bacterial Vaginosis among Pregnant Women in Low-Resource Settings. Presented at the Infectious Disease Society of Obstetrics and Gynecology, August 2013, Santa Fe, New Mexico.
5. Drake A, **Unger JA**, Kinuthia J, Matemo D, John-Stewart G. Late initiation of contraception among unmarried, less educated postpartum women in Kenya. Presented at the Society for Family Planning Meeting, October 2013, Seattle, Washington.

6. **Unger JA**, DeRenzi B, McCoy E, Kinuthia J, Ryan S, Newman M, Borriello G, John-Stewart G. How mobile phone messaging can support proven maternal child health (MCH) strategies – A qualitative evaluation. Presented at the Women’s Reproductive Health Research (WRHR) Annual Meeting, October 2013, Denver, Colorado.
7. **Unger, JA**. The manufacturing of a message in Mobile WACH: how to develop personalized mHealth messages in the age of automation and scale up. Presented at the mHealth Summit, Global Health Forum, December 2014, Washington, DC.
8. Andersen M, Roxby A, Marx G, Bosire R, Farquhar C, **Unger JA**. Reproductive desires and family planning and safer contraception knowledge among women in HIV-serodiscordant relationships in Kenya: a qualitative study. Presented at the Society of Family Planning, October 2015. Oral presentation.
9. **Unger JA**, Wandika B, Ronen K, Rothschild C, Shih J, Wamalwa D, Muthigani W, Batra M, Kinuthia J, John-Stewart G. Mobile WACH NEO: Engagement of pregnant and postpartum women with a two-way SMS service to improve neonatal outcomes. Oral presentation at the Pediatric Academic Society, April 29, 2019, Baltimore, Maryland.
10. Hedstrom A, Choo E, Ronen K, Wandika B, Jiang W, Osborn L, Batra M, Wamalwa D, John-Stewart J, Kinuthia J, **Unger JA**. Risk factors for stillbirth and neonatal mortality among participants in Mobile WACH NEO pilot, a two-way SMS communication program in Kenya. Oral presentation at the Pediatric Academic Society, 2021.
11. Choo EM, Otieno C, Lara J, Awuor M, Anyango M, Masheti M, Tickell K, **Unger JA**, Ronen K, Goodman J, Diakhate MM, Singo BO, McGrath CJ, Rubin Mean A. Drivers of uptake and adoption of a mobile health intervention for early detection of childhood malnutrition in Kenya. Annual Conference on the Science of Dissemination and Implementation in Health. Poster presentation, NIH, December 11, 2022.
12. Tickell K.D., Achieng C., Masheti M., Anyango M., Ndirangu A., Diakhate M.M., Yoshioka E., Levin C., Rubin Means A., Choo E.M., Ronen K., **Unger J.A**, Richardson B.A, Singa B.O, McGrath C.J. Family MUAC supported by a two-way SMS platform for identifying children with wasting: The Mama Aweza randomized control trial. Oral presentation, MSF Science Days Conference, 2023.

Regional

1. **Unger JA**, Hannon N. The FDA’s phase out of “Essential Use” status of CFC in asthma inhalers. Presented at the New England Public Health Association Annual Conference, 1999, Providence, Rhode Island.

Local

1. **Unger, JA**. Translation services available to Spanish speaking residents in Hartford. Presented at the University of Connecticut Health Center and Area Health Education Council, 2000, Hartford, Connecticut.

INVITED PRESENTATIONS

International

1. Grand Rounds, *Telehealth, maternal health and COVID-19*, Kenyatta National Hospital, Nairobi, Kenya, June 2022.
- 2.
3. Plenary Speaker, *Mobile health (mHealth) technology to strengthen family planning programs*, Human Right to Family Planning (HR2FP), Seattle, Washington, October 2015.

National

1. Grand Rounds, *mHealth to address maternal and neonatal mortality*, University of Washington, Department of Obstetrics & Gynecology, Seattle, Washington, March 2017.
2. *Adolescents in Context: Improving adolescent health through critical relationship*, Adolescent Health Symposium, Bill & Melinda Gates Foundation, Seattle, Washington, November 2016.

Regional

1. Grand Rounds, *The Crisis of Global Maternal Health: Rethinking Ideas for Accelerating Progress*, Sacred Heart University, School of Nursing Fairfield Connecticut, October 2022
2. Lecturer, *Reproductive Health in Women with HIV: An Update Annual NW AETC Faculty Development Workshop* Seattle, Washington 2014
3. Lecturer, *Reproductive Health in Women with HIV AIDS Clinical Conference* Seattle, Washington 2014

Local

1. Grand Rounds, *A mobile revolution for maternal and neonatal health*, Women and Infants Hospital, Department of Obstetrics and Gynecology, Providence, Rhode Island, July 2021
2. Plenary Speaker, *Mobile technologies to support family planning*, Family Planning Symposium, University of Washington, Department of Obstetrics & Gynecology and Global Health, May 2018.
3. Young Professionals International Network (YPIN)'s International Women's Day Speed Mentoring, Seattle, Washington, March 2018.
4. Plenary Speaker, *Reproductive Biology for Contraceptive Technology*, Bill & Melinda Gates Foundation, Seattle, Washington, May 2019.

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

1. **Unger JA, Cummings, D.** *Informed Consent and Methods of Contraception: A Guide to Patient Rights*; IPAS Mexico, June 2003. (no PMID)

GRANTS

Current

Ongoing Research Support

Grant # INV-043805 (PI: Drake/ Unger) 07/31/2022 to 06/30/2025 Effort:0.6
MPI

Agency: Bill and Melinda Gates Foundation Gates Foundation
Annual Direct Costs: \$300,000

Title: **Improving accuracy in measurement of fertility intentions and delivery of reproductive life planning counseling**

Grant #: 1R01HD098105-01 (PI: Ronen) 06/01/2021-05/30/2026 Effort: 1.8
Co-I

Agency: NIH/NICHD
Annual Direct: \$512,700

Title: **CHV-NEO: Community-based digital communication to support neonatal health**

Grant #: 1R01HD104551-01 (PI: Drake) 06/01/2021-05/30/2026 Effort: 3.0
Co-I

Agency: NIH/NICHD
Annual Direct: \$503,559

Title: **Mobile WACH Empower: Mobile solutions to empower reproductive life planning for women living with HIV**

Grant#: 1R01NR019220 (PI, Kinuthia) 09/18/2020-06/30/2025 Effort: 0.6
Co-I

Agency: NIH/National Institutes of Nursing Research Total Direct Costs: \$3,307,824

Title: **mWACH-PrEP: A SMS-based Support Intervention to Enhance PrEP Adherence**

Our overarching hypothesis is that mWACH-PrEP will improve PrEP adherence among mothers at-risk for HIV, be acceptable to patients and providers, and be cost-effective.

Grant #: 1R01HD098105 (PI, Unger) 06/01/2019 – 03/31/2024 Effort: 1.86
Agency: NIH/NICHD Annual Direct Costs: \$558,692

Title: **Mobile WACH NEO: Mobile Solutions for Neonatal Health and Maternal Support**

The goal of this project is to evaluate the impact of two-way SMS on neonatal mortality, maternal depression and early infant care, using a randomized clinical trial.

Completed Research Support

Grant #: R01 MH114522-01 (PI, John-Stewart) 7/1/17-6/30/22 Effort: 0%, Co-I
Agency: NIH Annual Direct Costs: \$460,919

Title: **“PrEP Adherence Among AGYW: A Multidimensional Evaluation“**

Grant #: 0000000210 (PI: Ronen) 07/01/2019-06/30/2021 Effort: 5% Co-I
Agency: University of Wisconsin \$234,951

Title: **Social medial support for peripartum adolescents in Seattle**

The IMAGINE study seeks to develop and pilot a social media adaptation of the evidence-based Mothers and Babies Program intervention for prevention of perinatal depression in peripartum adolescents.

Grant #: 63-7689 (PI, McGrath) 2018-2020 Effort: 5%, Co-I
Agency: Thrasher Annual Direct Costs: \$250,000
Title: **Maternal Administered Malnutrition Monitoring System “MAMMS” Trial**
We propose to test the “Maternal Administered Malnutrition Monitoring System” (MAMMS) in a randomized controlled trial in western Kenya.

Grant #: 1R34MH114834 (PI, Guthrie) 9/01/17-8/31/20 Effort: 2%, Co-I
Agency: NIH/NICHD Annual Direct Costs: \$150,000
Title: **Planning the mPACT Trial - mHealth strategies for the Pediatric to Adult HIV Care Transition**
This planning grant will support the development of a novel mHealth strategy for the Pediatric to Adult HIV Care Transition (mPACT) in preparation for a future cluster-randomized trial in Kenya

Grant #: 1R01HD080460-01 (PI, John-Stewart) 5/1/14-4/30/20
Effort: 0%, Co-I
Agency: NIH/NICHD Annual Direct Costs: \$685,067
Title: **“Evaluation of mHealth Strategies to Optimize Adherence and Efficacy of PMTCT/ART”**
We are conducting a 3-arm randomized trial comparing one-way SMS vs, two-way SMS vs. control (no SMS) among HIV-infected Kenyan mothers in Kenyan PMTCT-ART programs.

Grant #: A139241(PI, Unger) 4/01/19-3/31/2020 Effort: 8%, PI
Agency: Royalty Research Fund Annual Direct Costs: \$31,826
Title: **Does the message matter? Assessing the effect of SMS content and participant characteristics on enjoyment and care-seeking outcomes from the Mobile WACH studies.**

Grant #: AID-OAA-F-16-00026 (PI, Unger) 7/1/16-12/30/19 Effort: 1%, PI
Agency: USAID \$250,000
Title: **“Mobile WACH NEO: Communication Empowering Mothers and Newborns”**
We will utilize the *Saving Lives at Birth Validation Award* to address the scalability and sustainability of Mobile WACH NEO with three targeted interwoven strategies:
1.) Mobile WACH NEO Demonstration Project 2.) Business model
2.) Integration of Mobile WACH NEO platform within the Kenya Ministry of Health (MOH) MNCH and e/mHealth strategies

Grant #: OPP1172004 (PI, Drake) 4/01/17-4/30/19 Effort: .08 Calendar, Co-I
Agency: Gates Grand Challenge Explorations Annual Direct Costs: \$80,000
Title: **Real-time, dynamic capture of contraceptive behaviors, experiences, and needs of Kenyan Women**
We will use a novel, tailored mobile messaging platform to continually assess women’s contraceptive experiences, needs, and behaviors in ‘real-time among women initiating or continuing family planning in Kenya.

Grant #: 37188-1088 MOD01 (PI, John-Stewart) 10/1/16-3/30/19 Effort: 10%, Co-I
Agency: PEPFAR \$3,509,305.75
Title: **“Pre-exposure prophylaxis implementation in young women and adolescents in Kenya: DREAMS Innovation Challenge - PriYA”**
Implement a program to scale-up oral pre-exposure antiretroviral prophylaxis (PrEP) counselling and delivery to young women and adolescents at high risk for HIV in public health sector Maternal and Child

Health (MCH) and Family Planning (FP) clinics. To address the scalability and sustainability of PrEP with three targeted interwoven strategies: 1) Evaluate two models of PrEP delivery, both will use universal approach of giving women a risk assessment and one of the models will also utilize partner self-tests.; 2) Build capacity and streamline HIV prevention services, through training staff, facilitating harmonization of data systems for tracking and *gain proficiency in efficient SMS management of adherence for PrEP*; 3) Assess cost, and cost-effectiveness of delivering PrEP.

Grant#: CFAR AI027757 (PI, Unger) 3/2012-3/2013 Effort: 0% PI
 Agency: Center for AIDS Research International Core \$20,000
Title: Center for AIDS Research International Core, Infrastructure Award.
 Awarded funds to build solar power into clinic space for ongoing studies in Kenya.

K12 HD-09-026 (PI, Eschenbach) 5/1/2011-10/30/2014 Effort: 75%, Trainee
 Agency: NIH/NICHD \$473,368
Title: Women’s Reproductive Health Research (WRHR) “Mobile Solutions to Improve Women’s and Children’s Health (*Mobile WaCH*)”
 A randomized clinical trial to determine the effect of using mobile phones to deliver information to patients over SMS (one-way communication) versus using mobile phones to create an interactive dialogue over SMS (two-way communication) on uptake of reproductive and neonatal health services.

UNIVERSITY TEACHING ROLES
(University of Washington School of Medicine/ School of Public Health)

2012-2014	GH 547 - Lecturer Adolescent Health in Resource Limited Settings Department of Global Health University of Washington
2012-2021	GH 573 - Lecturer Clinical Management of HIV Department of Global Health University of Washington
2012-2021	GH Seminars – Global Health Leadership Global Health Certificate and Lecture Series Department of Global Health University of Washington
2014-2017	GH 590 - Lecturer Legal and Policy Solutions Department of Global Health University of Washington
2014-2018	EPI 586 - Lecturer Responsible Conduct of International Research Department of Global Health University of Washington

2014-2019 **GH/MED 561 - Lecturer**
Tropical Medicine Course
School of Medicine
University of Washington

2014-2021 **GH 446/ 546 - Course Co-Director**
Global Perspectives in Reproductive Health
Department of Global Health
University of Washington

2014-2021 **GH 454 - Lecturer**
Bioengineering Solutions in Global Health
Department of Global Health
University of Washington

2017-2021 **GH 502 - Lecturer**
Contemporary Issues in Global Health
Global Health Seminar
Department of Global Health
University of Washington

Other

2011-2013 Lecturer
Clinical Seminar Series
International Training & Education
Center for Health (I-TECH)
University of Washington

2012-2013 Faculty Leader
Adolescent Mentoring Training Program
School of Medicine
University of Washington

MPH Thesis Chair

2014-2018 Karren Lewis, MD, MPH (2018)
“Perspectives of mobile health messaging for increasing uptake of maternal child health services and family planning among HIV positive women, male partners and HIV providers in Kenya: a mixed-methods analysis”
University of Washington
Presented at the Global Digital Health Forum, 2016
Publication BMC Health Services, 2020

2019-2021 Alyssa Hummel, MD, MPH (2021)
“Factors associated with a maternal depression in a Kenyan cohort” University of Washington
Publication BMC Pregnancy and Childbirth, accepted, 2022

2019-present Gifti Abbo, MD, MPH (2022)
“Experiences of pregnant and post-partum women living with HIV using SMS for ART adherence in Kenya: A qualitative analysis”

HOSPITAL TEACHING ROLES

2022-present Lecturer
Resident Core Curriculum
STI/PID
Basic Research Skills

2022-present Lecturer
Fellows Clinical Research Course
Core Topics Covered:
Ethics of Clinical Research

2011-2021 Lecturer
Harborview Women’s Health Lecture Series
Core Topics Covered:
Early Pregnancy Loss
Treatment of Ectopic Pregnancy

2012-2021 **Co-Director**
Global Health Lecture Series
Department of OBGYN
University of Washington

2021-present Lecturer
Resident Core Lecture Series
Brown Dept OBGYN
Core Topics Covered:
Early Pregnancy Loss
STI/PID management

MENTORING

2012-2019 Mentor, Young Global Leaders Program, One by One –
Fighting Fistula, Seattle, Washington

2014-2016 Mentor

Intensive Course on Implementation Science for Family
Planning Reproductive Health
University of Washington

Trainees

Medical Students

2011-2013
Maya Newman, MD
Global Health Project
“Pilot testing SMS for Maternal and Child Health in Kenya”
Awarded GO Health Fellowship from
University of Washington

2013-2016
Emily Eck, MD
Underserved Pathway Mentor
University of Washington

Graduate Students

2014
Juan Nie, MPH
MPH Thesis Committee
“Association of mobile phone ownership with the use of
maternal and newborn health services among pregnant women
in Timor-Leste-A cross-sectional study”
University of Washington
Published, BMC Pregnancy & Childbirth

2012-2014
Mona Wiggins, DNP 3
Global Health Project Committee
“Family Planning Needs Assessment for Maternal Child
Health Clinics in Rural Western Kenya”

2015
Julia Velonjara, MPH
MPH Thesis Committee
“Knowledge, Attitudes and Practices for Family Planning
Among Adolescents and Health Care Workers in Western
Kenya”
Published, Sexual and Reproductive Healthcare

2017-2019
Trevor Perrier, PhD
PhD Thesis Committee
“Mobile WaCH: A Bidirectional SMS Messaging Platform for
Maternal Health”
University of Washington

2018-2021
Clair Rothchild, PhD
F31 Grant Advisory Committee
Multiple publications

2020-present Esther Choo, MPH, PhD(p)
Mentor Mobile WACH NEO projects

2020-2022 Alana Lopez, MPH
MPH Thesis Committee

2020-present Mame Mareme Diakhate, MPH(p)
MPH Thesis Committee
“Correlates of breastfeeding and infant growth in Kenya”

2022-present Olivia Shultes, MPH(p)
Advisor MPH Thesis
“Modifiers affecting care seeking in the Mobile WACH NEO project”

Residents

2011-2016 Malavika Prabhu, MD
“Bacterial vaginosis among pregnant women in low resource settings”
Presented at IDSOG, 2016

2012-2017 Melanie Andersen, MD
“Reproductive Desire and Sexual Knowledge among HIV-Discordant Couples in Kenya”
Presented at Society for Family Planning, 2017

2015-2017 Tirza Cannon, MD
“In-depth analysis of Mobile WACH MCH messaging”

2015-2017 Bonnie Crouthamel, MD
“Knowledge, Attitudes and Practices for Family Planning Among Adolescents and Health Care Workers in W. Kenya”
Published Sexual and Reproductive Healthcare

2017-2018 Carlie Field, MD
“Using Best Friend Report to determine prevalence of induced abortion among HIV infected women in Kenya”. Presented at the International Conference on Family Planning, 2018
In preparation for Contraception X

2017-2020 Kevin Saiki, MD
“The Effect of Health Care Worker Strike on Maternal and Child Health”.
Presented at the Nairobi Collaborative Meeting, 2019
East Africa mHealth Meeting, 2019

2019-present Anne Erickson, MD

“Determinants of family planning behaviors among high-risk post-partum women”
Submitted to Sexual and Reproductive Healthcare

Fellows

- 2014-2015 Eve Rajula (Kenyan, Prime K Fellow)
“Use of mobile phones to improve paediatric post-discharge follow-up in rural Kenya”
- 2015-2021 Elizabeth Harrington, MD, MPH (2017)
(Family Planning Fellow)
Primary Fellowship Research Mentor
Thesis Committee Member
“Mobile phone SMS dialogue among couples for postpartum contraceptive uptake in Kenya: (Mobile WACH XY) A randomized controlled trial”
Multiple publications
- 2016-present Brenda Wandika (IARTP, MPH)
Kenyan scholar
Primary PhD Mentor
“Mobile WACH NEO RCT”
Accepted to IMNH Global Conference, 2023