

CURRICULUM VITAE

Donna Marie Denno, M.D., M.P.H

EDUCATION

- 1981-1984 Wayne State University, Detroit, MI
B.S.: Biological Sciences
- 1985-1991 University of Michigan, Ann Arbor, MI
M.D. (Education extended by US Public Health Service/Congressional internships and AMSA fellowship as described below)
- 2004-2006 University of Washington, Seattle, WA
M.P.H. International Health Program, Department of Health Services, School of Public Health

POSTGRADUATE EDUCATION

- 1991-1993 Brown University, Providence, RI, Pediatrics Residency Program
- 1993-1994 University of Washington, Seattle, WA, Pediatrics Residency Program

FACULTY POSITIONS HELD

- 1995-1996 Lecturer, Department of Child Health, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana
- 1995-1996 Clinical Instructor of Pediatrics, Louisiana State University
- 2008-2010 Lecturer, Boston University Geneva Program

Department of Pediatrics, University of Washington

Clinical Instructor: 1994-1995
Clinical Assistant Professor: 1998-2003
Acting Assistant Professor: 2003-2007
Affiliate Assistant Professor: 2007-2012
Associate Professor: 2012-2015
Professor: 2015-present

Department of Health Services, University of Washington

Clinical Assistant Professor: 2001-2007
Adjunct Associate Professor: 2012-2015
Adjunct Professor: 2015-present

Department of Global Health, University of Washington

Clinical Assistant Professor: 2007-2012
Joint Associate Professor: 2012-2015
Joint Professor: 2015-present

EMPLOYMENT & INTERNSHIPS

- 1988 U.S. Public Health Service Commissioned Officer Student Training and Externship Program, Rockville, MD
- 1989 U.S. Senate Labor and Human Resources Committee Health Policy Intern, Washington, D.C. (Office of Senator Edward Kennedy)
- 1989-1990 American Medical Student Association International Health Fellowship Program, Kumasi, Ghana
- 1996-1998 Locum Tenens, Pediatrician, Public Health-Seattle and King County, Seattle, Washington
- 2010-2012 Seattle Children's Hospital - Urgent Care Attending Pediatrician

CONSULTANCIES and CONTRACTS

- 1998-2001 Health Alliance International (HAI), Seattle.
Grant writing and development of child survival proposals. Participated in development of *Assessment of Emergency Transition Situations* manual for HAI and Mercy Corps in a Mellon Foundation funded project.
- 2008 World Health Organization
Child and Adolescent Health and Development Department, Geneva,
Technical review and revision of textbook, Primary Health Care II.
(Oxford, Macmillan Education, 2009)
- 2008 World Health Organization
Child and Adolescent Health and Development Department, Geneva.
Technical review, revision, editing and development of components to Adolescent Job Aid (Geneva, WHO, 2010); a desk reference for non-pediatric providers of adolescent health care in resource poor settings.
- 2008 World Health Organization
Child and Adolescent Health and Development Department, Geneva.
Development of brochure documenting research activities, products, and resultant impact with the Department.
- 2008 World Health Organization
Child and Adolescent Health and Development Department, Geneva.
Technical review and revision of Guidelines for Formative Research for Newborn Care.
- 2009 World Health Organization
Immunization, Vaccines and Biologicals Department, Geneva.
Development of a methodology and data collection tool to assess and document the administration of second routine dose of measles vaccination under field conditions.

- 2009 I-TECH, Seattle, Washington.
Development of Child Health course syllabus and learning objectives for the Mozambique Ministry of Health Technico's (mid level health care providers) training program.
- 2010 World Health Organization
Child and Adolescent Health and Development Department, Geneva.
Systematic review and analysis of literature on approaches to reach vulnerable adolescents with out-of-facility health services. Develop evidence based policy recommendations.
- 2010-2012 Consultant/Co-Investigator. Washington University, St. Louis, MO.
Systematic review and analysis of evidence on environmental enteric dysfunction (EED). Gap analysis, systematic review, develop evidence based recommendations for future research that can propel the field forward and mitigate EED impact on child malnutrition and mortality.
- 2011 World Health Organization,
Western Pacific Regional Office, Manila, Philippines.
Assessment of school-based immunization activities across four countries in the Western Pacific Region.
- 2012 World Health Organization,
Reproductive Health Research Department, Geneva.
Systematic review and analysis of literature and programs on improving access for sexual and reproductive health services for adolescents. Develop and present evidence based policy recommendations at an Expert Group meeting co-hosted by WHO, UNFPA, and IWHC.
- 2015 World Health Organization,
Reproductive Health Research Department, Geneva.
Analysis of literature and programs on improving health worker performance in providing sexual and reproductive health services for adolescents.

HOSPITAL POSITIONS HELD

- 1991 (May, June) Medical Officer, Holy Family Hospital, Berekum, Ghana
- 1994-1995,
1998-2007, and
2010-present Attending Pediatrician, Seattle Children's Hospital, Seattle, WA
- 1995-1996 Attending Pediatrician, Komfo Anokye Teaching Hospital, Kumasi, Ghana, West Africa
- 1998-2010 Attending Pediatrician, Harborview Medical Center, Seattle, WA

HONORS

Merit Scholar (4 year full scholarship), Wayne State University
Magna Cum Laude, Wayne State University
Undergraduate Honors Degree, Wayne State University
Phi Beta Kappa Honor Society
Mortar Board Honor Society

BOARD CERTIFICATION

1995	American Board of Pediatrics--Pediatrics
2001	American Board of Pediatrics--Pediatrics recertification
2008	American Board of Pediatrics--Pediatrics recertification
2018	American Board of Pediatrics--Pediatrics recertification

CURRENT LICENSES TO PRACTICE:

Washington (exp 1-17-2021) #MD00031009

PROFESSIONAL ORGANIZATIONS

American Academy of Pediatrics, 1991-present
Section on International Child Health, 2007-present

Northwest International Health Action Coalition, 1997-2007
Steering Committee member, 1999-2007

Global Health Education Consortium, 2007-2012

American Society of Tropical Medicine and Hygiene, 2015-present

TEACHING RESPONSIBILITIESUW Courses Taught

Course	Title	Credits	Years	Stu- dents	Percent of Responsibility
Peds 665	Clinical Clerkship	12	1999-2007	3 per 3 week rotation	100% for 2 three week rotations per year
GH 500/EPI 592	Global Health Seminar	1	2003, 2007, 2012, 2014	40-60	2003, 2007, 2012: 1 lecture WIN 2014: Instructor (100%)
Peds 499	Undergraduate Research	6	2004/2005	1	Independent study—100%
Uconj 503	International Health	1	2005	100	1 lecture
Med 560	Advanced Topics in Global Health	2	2005	30	1 lecture
GH/Hserv 544	Maternal and Child Health in LMICs*	3	2005-2007, 2009, 2010	20-30	1 lecture / year
GH/Hserv 544	Maternal and Child Health in LMICs*	3	2011	25-30	Co-Instructor (50%)
GH/Hserv 544	Maternal and Child Health in LMICs*	3	2012-present	25-30	Instructor (100%)
Executive MPH Program GH 545 (previously HSERV 590; named GH 600 in 2011)	Child Health in LMICs	3	2008-2017	4-14	Instructor (100%)
GH 402/502	Contemporary Issues in Global Health	1	2011	100	1 lecture
GH 590	Adolescent Health in Resource Limited Settings	1	2013-2015, 2017-2018	~20	1 lecture/year

LAW 305	Global Health and Justice	3	2015	40	1 lecture
GH 210	Confronting Global Diseases: Introductory Biologic Principles and Context	3	2015-2016	150	1 lecture/year
GH 490/590	Bioengineering Solutions to Improve the Health of Women, Children & Adolescents	1	2015-2017	20-40	1 lecture/year

**Includes graduate students from School of Public Health, School of Medicine, School of Nursing, Evans School, Jackson School, School of Social Work, and others. Previously called "MCH in Developing Countries"*

Advising and formal mentoring (during last 5 years only)

Practicum Advisor, Department of Global Health:

- Sonjelle Shilton, What are the facilitators and barriers to adopting World Health Organization 'Preventing Adolescent Pregnancy Guidelines' for national policy, budget, and program development plans? 2015
- Marina Plesons, Evaluation of a government-led, cross-departmental convergence approach to prevent and respond to child marriage in Bihar and Rajasthan, India, 2016

Practicum Advisor, Department of Health Services:

- Zainab Abdulmajeed, Iraqi Health Board, 2016

Global Center for Integrated Health of Women, Adolescents, and Children Certificate Capstone Advisor:

- Sonjelle Shilton, A descriptive analysis of approaches used to improve the performance of health workers delivery of adolescent sexual and reproductive health services, 2016
- Marina Plesons, Implications of the Global Early Adolescent Study's formative research findings for action and for research, 2016
- Katie Reynolds, Review of tools to assess child appetite, 2017
- Shadae Paul, Child health and survival in a changing world: A review of preventable child deaths in LMICs, 2017
- Lauren Rotkis, Ultrasound midwifery training program in Ghana: Will it increase antenatal detection of congenital anomalies? 2019
- Manahil Siddiqi, The interrelationships between child marriage and HIV/AIDS: What does the evidence really say?, 2019
- Sarah Lawrence, Acceptability of minimally invasive tissue sampling (MITS) embedded within complex social relationships in a hospital setting in Malawi, 2019

PhD Committee member, Department of Epidemiology:

- Michael Arndt, Environmental enteropathy and fibroblast growth factor 21 are associated with early childhood growth in Bangladesh, 2016
- Kirby Tickell, Understanding enteric function as a determinant of post-discharge pediatric mortality in Kenya and Pakistan, current

MPH Thesis Chair, Department of Health Services:

- Kristin Nash, Sexual and reproductive health information in Mulanje District, Malawi: Exploring perceptions of adolescent girls, their mothers and initiators, 2017
- Manahil Siddiqi, Development of an Adolescent Sexual and Reproductive Health Research Indicator Framework, 2019

MPH Thesis Chair, Department of Global Health:

- Sonjelle Shilton, Barriers and facilitating factors to national adoption of World Health Organization's Preventing Early Pregnancy guidelines, 2016
- Shadae Paul, Pediatric Discharge from Hospital: Kenyan Healthcare Workers' Perceptions and Reported Practices, 2019

MPH Committee Member, Department of Health Services:

- Jessica Silverthorne, Evaluation of community-led complementary feeding and learning, 2016

Pediatric Residents, Continuity Clinic Supervisor:

- Neighborcare Meridian Health Clinic: 1 day/week for 11-12 pediatric residents/year, primary supervisor for 6 of these residents, 2012-present

University-related teaching/curriculum committees

2005-2007	Coordinator, UW Resident Global Health and Equity Education Consortium
2006-2007	UW Co-Representative, Global Health Education Consortium
2008, 2009	Reviewer, medical student applications for UW Global Health Resource Center International Health Electives
2010-2013	Advisory Committee, Global Health Undergraduate Minor
2010-2016	Curriculum Committee, Executive MPH Program
2010-2014	Department of Global Health e-Learning Working Group 2011 Leader of e-Learning Purposes and Objectives Subcommittee
2011-2012	Working Group, Global Health Pathway, School of Medicine
2012-2015	School of Public Health Distance Learning and Learning Technologies Committee
2013-2014	Working Group, Undergraduate Global Health Minor and the Public Health Major 'Human Biology in Health' course development

- 2014-2016 Curriculum Committee, Department of Health Services
- 2014-2016 Co-Director, Executive MPH Program, Department of Health Services, School of Public Health
- 2014-present MD/MPH Admissions Committee, Department of Global Health
- 2018-present Child Health Equity Research Program for Post-doctoral Trainees Working Group, Division of General Pediatrics, member

INTERNATIONAL ACTIVITIES

- 2006-2008 Advisory Board member, Health Improvement and Promotion Alliance-Nima, Ghana
- 2011-2012 Bill and Melinda Gates Foundation
Working Group to Develop a Clinical Definition of Environmental Enteric Dysfunction
- 2013 World Health Organization, United Nations Population Fund, International Women's Health Coalition
Expert Group on Adolescents' Sexual and Reproductive Health Programming
- May 2014 and March 2015 Bill and Melinda Gates Foundation
Invited Participant, Environmental Enteric Dysfunction Convening
- 2017 Lancet Standing Commission on Adolescent Health and Wellbeing, Invited Participant
- Feb 2018 Rockefeller Foundation
Invited Participant, Environmental Enteric Dysfunction Convening
- 2018-present MITS Surveillance Alliance, member
Cause of Death Technical Working Group, member

NATIONAL ACTIVITIES

- 2009-2010 American Academy of Pediatrics and Global Health Education Consortium Pediatrics
Global Health Education Modules Project Core Workgroup member

UNIVERSITY ACTIVITIES

- 2003-2005 UW-Basra Sister University Working Group
- 2005-2006 Advisory Committee for Puget Sound Partners for Global Health grant, "Assessing Childhood Cancers and Birth Defects among Children in Basra, Iraq after War and Sanctions."

2010-present Member and Technical Advisor, Global Center for Integrated Health of Women, Adolescents, and Children (Global WACH)
2014-2018, Member, Global WACH Nutrition Think Tank
2017-present, Member, Pediatric Infectious Disease Working Group
2017-present, Advisor, Gut Health and Child Survival Group
2020, Associate Director, Pedi

RESEARCH SUPPORT

Co-Investigator. 0.35 FTE. Building the evidence base for appropriate care of the sick, undernourished child in limited resource settings. Bill and Melinda Gates Foundation (OPP1131320). \$18,704,339. Co-PIs, Jay Berkley, Oxford University and Judd Walson, University of Washington. 09/15/2015-09/30/2020.

Coordinating Investigator. 0.31 FTE. Enteric dysfunction biomarker development and coordination II. Bill and Melinda Gates Foundation (OPP1152812). \$1,288,729. PI, Philip Tarr, Washington University. 10/05/2016-09/30/2020.

Past

Co-Investigator. 0.05 FTE. Private wells and enteric infections in children: A randomized intervention trial. NIH 1R34AI127305-01A1 REVISED. \$257,857. PI, Heather Murphy, Temple University. 9/01/2018-8/30/2019.

Co-Investigator. 0.05 FTE. The Bangladesh Environmental Enteric Dysfunction (BEED) Study. Bill and Melinda Gates Foundation (OPP1136759). \$3,299,662. PI, Tahmeed Ahmed, International Centre for Diarrhoeal Disease Research, Bangladesh. 09/15/2015-09/14/2018. (UW subcontract 1/01/2016-12/31/2017).

Coordinating Investigator. 0.20 FTE. Enteric Dysfunction Biomarker Development and Coordination. Bill and Melinda Gates Foundation (OPP1071928). \$824,496. PI, Philip Tarr, Washington University. 11/5/2012-11/30/2015.

Investigator, 0.10 FTE. International AIDS Education and Training Center. HRSA (6 U91HA06801-08-03). \$58,054,410. PI, King Holmes. 4/1/2013-9/30/2013 (duration of my efforts).

Co-Investigator. Systematic review and analysis of evidence on tropical enteropathy/enteric dysfunction (TE/ED). Bill and Melinda Gates Foundation. \$750,000 PI, Philip Tarr, Washington University. 2010-2012.

Co-Investigator, 0.05 FTE. Assessment of Job-related Exposures for Diarrheal Illness in Farmworker Families. NIOSH. John Scott Meschke. 09/01/06-03/31/07.

Co-Investigator. 0.30 FTE. Diarrhea Etiology and Risk Factor Study. USDA (NRI 0202238), \$1,299,000. PI, Philip Tarr. 2002-2006.

Co-Investigator. 0.10 FTE. Novel Methods for Identification of Emerging Infections. Centers for Disease Control and Prevention, \$183,654. PI, Philip Tarr, 09/30/97-09/29/00.

BIBLIOGRAPHY

Manuscripts in Refereed Journals:

1. Hinman CL, Green CL, **Denno D**, Rauch HC, Hudson RA. Affinity chromatographic purification of antibody subsets depends on the mode of cross-linking of antigen to the affinity matrix. Mol Immunol. 22(6):681-8,1985. PMID:4022017
2. Mock CN, **Denno D**, Adzotor KES. Paediatric trauma in the rural developing world: Low cost measures to improve outcome. Injury. 24:291-296,1993. PMID:8349334
3. Mock CN, Adzotor KES, Conklin L, **Denno D**, Jurkovich G. Trauma outcomes in the rural developing world: Comparison with an urban level I trauma center. J Trauma. 35:518-523, 1993. PMID:8411273
4. **Denno DM**, Bentsi-Enchill A, Mock CN, Adelson J. Maternal knowledge, attitudes, and practices concerning acute respiratory infections in their under five year old children in Kumasi, Ghana. Annals of Tropical Paediatrics. 14:293-301, 1994. PMID: 7880091
5. Mock CN, Adzotor, KES, Conklin L, **Denno DM**, Rivara F. Admissions for injury at a rural hospital in Ghana: Prospects for prevention in the developing world. Am J Pub Health. 85:927-931, 1995. PMID: 7604915; PMCID: PMC1615531
6. Mock CN, Visser LE, **Denno DM**, Maier RV. Aggressive fluid resuscitation and broad spectrum antibiotics and decrease mortality for typhoid ileal perforation. Tropical Doctor. 25:115-117, 1995.PMID:7660480. doi: 10.1177/004947559502500309
7. Perdiagao JA, **Denno DM**, Mock CN, Baffoe-Bonnie B, Steele RW. AIDS in a developing country. AIDS Reader 6(5): 40-46, 1996.
8. **Denno DM**, Grossman DC, Britt J, Bergman AB. Safe storage of handguns: What do the police recommend? Archives of Pediatrics and Adolescent Medicine. 150:927-31, 1996. PMID :8790122
9. Hotard RS, **Denno DM**, Adu-Sarkodie Y, Baffoe-Bonnie B, Steele RW, DesBordes I. AIDS in a developing country: education to prevent spread of disease. AIDS Reader 8(1): 12-16, 1998.
10. **Denno DM**, Frimpong E, Gregory M, Steele RW. Nasopharyngeal Carriage and Susceptibility Patterns of *Streptococcus Pneumoniae* in Kumasi, Ghana. West African Journal of Medicine. 21: 233-236, 2002. PMID:12744576.
11. **Denno DM**, Stapp JR, Boster DR, Qin X, Clausen DR, DelBeccaro KH, Swerdlow DL, Braden CR, Tarr PI. Etiology of Diarrhea in Pediatric Outpatient Settings. Pediatric Infectious Disease Journal. 24(2):142-148, 2005. PMID:15702043
12. **Denno DM**, Klein EJ, Young VB, Fox JG, Wang D, Tarr PI. Explaining Unexplained Diarrhea and Associating Risks and Infections. Animal Health Research Reviews. 8(1): 69-80, 2007. PMID:17692144. doi: 10.1017/S1466252307001302

13. Qin X, Zerr DM, Weissman SJ, Englund JA, **Denno DM**, Klein EK, Tarr PI, Kwong J, Stapp JR, Tulloch LG, Galanakis E. Prevalence and Mechanisms of Broad-spectrum β -lactamase Resistance in *Enterobacteriaceae*: A children's hospital experience. Antimicrob Agents Chemother. 52(11):3909-14, 2008. PMID:18765688; PMCID: PMC2573145. doi: 10.1128/AAC.00622-08
14. Li ST, Klein EK, Tarr PI, **Denno DM**. Parental Management of Childhood Diarrhea. Clin Pediatr (Phila). 48(3):295-303, 2009. PMID:19023110. doi: 10.1177/0009922808327057
15. **Denno DM**, Keene WE, Hutter CM, Koepsell JK, Patnode M, Flodin-Hursh D, Stewart LK, Duchin JS, Rasmussen L, Jones R, Tarr PI. Tri-County Comprehensive Assessment of Risk Factors for Sporadic Reportable Enteric Bacterial Infection in Children. J Infect Dis. 199(4):467-476, 2009. PMID:19281302; PMCID:PMC3693595. doi: 10.1086/596555
16. Bennett WE, González-Rivera R, Puente BN, Shaikh N, Stevens HJ, Mooney JC, Klein EJ, **Denno DM**, Draghi A, Sylvester FA, Tarr PI. Proinflammatory Fecal mRNA and Childhood Bacterial Enteric Infections. Gut Microbes. 1:4,209-212, 2010. PMID:21327027; PMCID:PMC3023602. doi: 10.4161/gmic.1.4.13004
17. **Denno DM**. Global Child Health. Pediatr Rev. 32:e25-e38, 2011. PMID: 21285299. doi: 10.1542/pir.32-2-e25
18. Anspacher M, Frintner MP, **Denno DM**, Pak-Gorstein S, Olness K, Spector J. Global Health Education for Pediatric Residents: A National Survey. Pediatrics. 128(4):e959-65, 2011. PMID:21911354. doi: 10.1542/peds.2011-0129
19. **Denno DM**, Chandra-Mouli V, Osman M. Reaching Youth with Out-of-Facility HIV and Reproductive Health Services: A Systematic Review. J Adolescent Health. 51(2):106-21, 2012. PMID:22824440. doi: 10.1016/j.jadohealth.2012.01.004
20. **Denno DM**, Shaikh N, Stapp JR, Qin X, Hutter CM, Hoffman V, Mooney JC, Wood KM, Stevens HJ, Jones R, Tarr PI, Klein EK. Diarrhea Etiology in a Pediatric Emergency Department: A Case Control Study. Clinical Inf Dis. 55(7):897-904, 2012. PMID:22700832; PMCID:PMC3657524. doi: 10.1093/cid/cis553
21. Keusch GT, Rosenberg IH, **Denno DM**, Duggan C, Guerrant RL, Lavery JV, Tarr PI, Ward HD, Black RE, Nataro JP, Ryan ET, Bhutta ZA, Coovadia H, Lima A, Ramakrishna B, Zaidi AKM, Burgess DCH, Brewer T. Implications of acquired Environmental Enteric Dysfunction (EED) for growth and stunting in infants and children living in low and middle income countries. Food Nutr Bull. 34(3):357-64, 2013. PMID:24167916; PMCID:PMC4643688. doi: 10.1177/156482651303400308
22. *Huaynoca-Quisbert S, Chandra-Mouli V, Yaqub N, **Denno DM**. Scaling up comprehensive sexuality education in Nigeria: From national policy to nationwide application. Sex Education. 14(2):191-209, 2014. doi: 10.1080/14681811.2013.856292
23. Van Buskirk K, Ofosu A, Kennedy A, **Denno DM**. Pediatric anemia in rural Ghana: a cross-sectional study of prevalence and risk factors. J Trop Pediatr. 60(4):308-17, 2014. PMID:24728349. doi: 10.1093/tropej/fmu020

24. *Yuen J, Painter I, Abraham L, Melian M, **Denno DM**. A comparison of trends in Cesarean section deliveries in Paraguay between 1995 and 2008. Int J Gynaecol and Obstet. 126(3):265-71, 2014. PMID:25028987. doi: 10.1016/j.ijgo.2014.03.030
25. Pavlinac PB, John-Stewart GC, Naulikha JM, Onchiri OF, **Denno DM**, Odundo EA, Singa BO, Richardson BA, Walson JL. High-Risk Enteric Pathogens Associated with HIV-Infection and HIV-Exposure in Kenyan Children with Acute Diarrhea. AIDS. 28(15):2287-96, 2014. PMID:25028987; PMCID:PMC4346243. doi: 10.1097/QAD.0000000000000396
26. Holtz LR, Cao S, Zhao G, Bauer IK, **Denno DM**, Klein EJ, Martin A, Stine OC, Snelling TL, Kirkwood CD, Wang D. Geographic variation in the eukaryotic virome of human diarrhea. Virology. Virology. Sep 25;468-470C:556-564, 2014. PMID:25262473; PMCID:PMC4254309. doi: 10.1016/j.virol.2014.09.012
27. Keusch GT, **Denno DM**, Black RE, Duggan C, Guerrant RL, Lavery JV, Nataro JP, Rosenberg IH, Ryan ET, Tarr PI, Ward HD, Bhutta ZA, Coovadia H, Lima A, Ramakrishna B, Zaidi AKM, Burgess DCH, Brewer T. Environmental enteric dysfunction: Pathogenesis, diagnosis, and clinical consequences. Clinical Inf Dis. Nov 1;59 Suppl 4:S207-12, 2014. PMID:25305288; PMCID:PMC4481570. doi: 10.1093/cid/ciu485
28. **Denno DM**, Van Buskirk KM, Nelson ZC, Musser CA, Burgess DCH, Tarr PI. Use of the lactulose:mannitol ratio to evaluate childhood environmental enteric dysfunction: A systematic review. Clinical Inf Dis. Nov 1;59 Suppl 4:S213-9, 2014. PMID:25305289. doi: 10.1093/cid/ciu541
29. **Denno DM**, Hoopes A, Chandra-Mouli V. Effective strategies to provide adolescent sexual and reproductive health services and to increase demand and community support. J Adolescent Health. Jan;56(1 Suppl):S22-41, 2015. PMID:25528977. doi: 10.1016/j.jadohealth.2014.09.012
30. Mokdad AH, Forouzanfar MH, Daoud F, Mokdad AA, El Bcheraoui C, Moradi-Lakeh M, Kyu HH, Barber RM, Wagner J, Cercy K, Kravitz H, Coggeshall M, Chew A, O'Rourke KF, Steiner C, Tuffaha M, Charara R, Al-Ghamdi EA, Adi Y, Afifi RA, Alahmadi H, AlBuhairan F, Allen N, AlMazroa M, Al-Nehmi AA, AlRayess Z, Arora M, Azzopardi P, Barroso C, Basulaiman M, Bhutta Z, Bonell C, Breinbauer C, Degenhardt L, **Denno D**, Fang J, Fatusi A, Feigl AB, Kakuma R, Karam N, Kennedy E, Khoja T, Maalouf F, Obermeyer CM, Mattoo A, McGovern T, Memish Z, Mensah G, Patel V, Petroni S, Reavley N, Zertuche DR, Saeedi M, Santelli J, Sawyer S, Ssewamala F, Taiwo K, Tantawy M, Viner R, Waldfogel J, Zuñiga MP, Naghavi M, Wang H, Vos T, Lopez AD, Al Rabeeah AA, Patton G, Murray CJL. Young People's Health from 1990 to 2013: Global Burden of Diseases, Injuries, and Risk Factors. Lancet. Jun 11;387(10036):2383-2401, 2016. PMID: 27174305. doi: 10.1016/S0140-6736(16)00648-6
31. Arndt MB, Richardson BA, Ahmed T, Mahfuz M, Haque R, John-Stewart GC, **Denno DM**, Petri WA, Kosek M, Walson JL. Fecal Markers of Environmental Enteropathy and Subsequent Growth in Bangladeshi Children. Am J Trop Med Hyg. Sep 7;95(3):694-701, 2016. PMID:27352872; PMCID:PMC5014281. doi: 10.4269/ajtmh.16-0098
32. *Tickell K and **Denno DM**. A review of WHO recommendations and emerging evidence on the inpatient management of severe acute malnutrition. Bull WHO. Sep 1;94(9):642-651, 2016. PMID:27708469; PMCID:PMC5034633. doi: 10.2471/BLT.15.162867

33. Pavlinac PB, **Denno DM**, John-Stewart GC, Onchiri OF, Naulikha JM, Odundo EA, Hulsebert CE, Singa BO, Manhart LE, Walson JL. Failure of syndrome-based diarrhea management guidelines to detect *Shigella* infections in Kenyan children. J Pediatric Infect Dis Soc. Dec;5(4):366-374, 2016. PMID:26407270; PMCID:PMC5181358. doi: 10.1093/jpids/piv037
34. Melamed R, Storch GA, Holtz LR, Klein EJ, Herrin B, Tarr PI, **Denno DM**. Case-Control Assessment of the Roles of Noroviruses, Human Bocaviruses 2, 3, and 4, and Novel Polyomaviruses and Astroviruses in Acute Childhood Diarrhea. J Pediatric Infect Dis Soc. Sep 1;6(3):e49-e54, 2017. PMID:28186546 doi: 10.1093/jpids/piw083
35. Wit JM, Himes JH, van Buuren S, **Denno DM**, Suchdev PS. Practical Application of Linear Growth Measurements in Clinical Research in Low- and Middle-Income Countries. Horm Res Paediatr. 88(1):79-90, 2017. PMID:28196362; PMCID:PMC5804842. doi: 10.1159/000456007
36. Naila N, Nahar B, Lazarus M, Ritter G, Hossain M, Mahfuz M, Ahmed T, **Denno D**, Walson J, Ickes S. "Those who care much, understand much." Maternal perceptions of children's appetite: Perspectives from urban and rural caregivers of diverse parenting experience in Bangladesh. Matern Child Nutr. Jan 14(1), 2018. PMID:28730705 doi: 10.1111/mcn.12473
37. Amadi B, Besa E, Zyambo K, Kaonga P, Louis-Auguste J, Chandwe K, Tarr PI, **Denno DM**, Nataro JP, Faubion W, Sailer A, Yeruva S, Brantner T, Murray J, Prendergast A, Turner JR, Kelly, P. Impaired Barrier Function and Autoantibody Generation in Malnutrition Enteropathy in Zambia. EBioMedicine. Aug; 22:191–199, 2017. PMID:28750860; PMCID:PMC5552244. doi: 10.1016/j.ebiom.2017.07.017
38. **Denno DM**, Paul SL. Child Health and Survival in a Changing World. Pediatr Clin North Am. Aug;64(4):735-754, 2017. PMID:28734507. doi: 10.1016/j.pcl.2017.03.013
39. Tickell KD, Pavlinac PB, John-Stewart GC, **Denno DM**, Richardson BA, Naulikha JM, Kirera RK, Swierczewski BE, Singa BO, Walson JL. Impact of Childhood Nutritional Status on Pathogen Prevalence and Severity of Acute Diarrhea. AJTMH. Nov 97(5):1337-1344, 2017. PMID:29140236; PMCID:PMC5817755. doi: 10.4269/ajtmh.17-0139
40. **Denno DM**, Tarr PI, Nataro JP. Environmental enteric dysfunction: A case definition for intervention trials. AJTMH. Dec 97(6):1643-1646, 2017. PMID:29016294; PMCID:PMC5805039. doi: 10.4269/ajtmh.17-0183
41. Pavlinac PB, Brander RL, Atlas HE, John-Stewart GC, **Denno DM**, Walson JL. Interventions to reduce post-acute consequences of diarrheal disease in children: a systematic review. BMC Public Health. Feb 1;18(1):208, 2018. PMID:29391004; PMCID:PMC5796301. doi: 10.1186/s12889-018-5092-7
42. GBD 2015 Eastern Mediterranean Region Adolescent Health Collaborators. Adolescent health in the Eastern Mediterranean Region: Findings from the global burden of disease 2015 study. Int J Public Health. May; 63(Suppl 1):79-96, 2018. PMID:28776253; PMCID:PMC5701730. doi: 10.1007/s00038-017-1003-4
43. Hossain M, Ickes S, Rice L, Ritter G, Naila NN, Zia T, Nahar B, Mahfuz M, **Denno DM**, Ahmed T, Walson J. Caregiver perceptions of children's linear growth in Bangladesh: a

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44. Ickes S, Hossain M, Ritter G, Lazarus M, Reynolds K, Nahar B, Ahmed T, Walson J, **Denno DM**. Systematic review of tools and methods to measure appetite in undernourished children in the context of low- and middle-income countries. *Adv Nutr.* Nov 1;9(6):789–812, 2018. PMID:30462177; PMCID:PMC6247147. doi: 10.1093/advances/nmy042
45. *Nash K, O'Malley G, Geoffroy E, Schell E, Bvumbwe A, **Denno DM**. "Our girls need to see a path to the future" Community perspectives on sexual and reproductive health information in Mulanje district Malawi. *Reprod Health.* Jan 25;16(1):8, 2019. PMID:30683127 PMCID:PMC6347744. doi: 10.1186/s12978-018-0661-x
46. Nahar B, Hossain M, Ickes S, Naila N, Mahfuz M, Hossain D, **Denno DM**, Walson J, Ahmed T. Development and validation of a tool to assess appetite of children in low income settings. *Appetite.* Mar 1;134:182-192, 2019. PMID:30583008. doi: 10.1016/j.appet.2018.12.032
47. *Tickell KD, Mangale DI, Tornberg-Belanger SN, Bourdon C, Thitiri J, Timbwa J, Njirammadzi J, Voskuil W, Chisti MJ, Ahmed T, Shahid ASMSB, Diallo AH, Ouédraogo I, Khan AF, Saleem AF, Arif F, Kazi Z, Mupere E, Mukisa J, Sukhtankar P, Berkley JA, Walson JL, **Denno DM**. A Mixed Method Multi-Country Assessment of Barriers to Implementing Pediatric Inpatient Care Guidelines. *PLOS ONE.* Mar 25;14(3): e0212395, 2019. PMID:30908499. doi: 10.1371/journal.pone.0212395
48. Berkley JA, Walson JL, Diallo AH, Shahid ASMSB, Gwela A, Saleem A, Asad A, Tigoi CC, Bourdon C, Lancioni CL, **Denno DM**, Mangale DI, Mupere E, Tickell KD, Mwangome MK, Chisti MJ, Ngari MM, Ngao NM, Sukhtankar P, Bandsma RHJ, Molyneux S, Ahmed T, Voskuil W. Childhood Acute Illness and Nutrition (CHAIN) Network: A protocol for a multi-site prospective cohort study to identify modifiable risk factors for mortality among acutely ill children in Africa and Asia. *BMJ Open* May 5 2019; 9(5): e028454. PMID:31061058; PMCID:PMC6502050. doi:10.1136/bmjopen-2018-028454
49. *Shilton S, Paul S, Chandra-Mouli V, **Denno DM**. Facilitators and barriers in utilization of World Health Organizations' Preventing Early Pregnancy Guidelines in formulating laws, policies, and strategies: What do Stakeholders in Ethiopia Say? *IJAMH* July 4, 2019 ePub ahead of print. PMID:31271553. doi: 10.1515/ijamh-2019-0028
50. Liu T, VanBuskirk K, Ali A, Iqbal N, Kelly MP, Holtz L, Yilmaz OH, Sadiq K, Iqbal N, Amadi B, Syed S, Ahmed T, Moore S, Ndao M, Isaacs M, Pfeifer J, Atlas H, Tarr PI, **Denno DM**, Moskaluk C. A novel histological index for evaluation for environmental enteric dysfunction identifies geographic-specific features of enteropathy among children with suboptimal growth. *PLOS Negl Trop Dis* Accepted for publication December 6, 2019.

**Indicates a student writing on a project for which I was his/her primary supervisor.*

Published Books

1. **Denno DM**, VanBuskirk KM, Nelson ZC, Musser CA, Tarr PI. 2016. Environmental enteric dysfunction: Advancing current knowledge. St. Louis, MO: Washington University Libraries. <http://dx.doi.org/10.7936/K7WQ0228>

Other Publications: World Health Organization Books (as a contributor):

1. Primary Child Care: A Manual for Health Workers. 2nd edition. 2009. Macmillan Education. Oxford. ISBN 978-1-4050-6644-0.
2. Adolescent Job Aid: A Handy Desk Reference Tool for Primary Level Health Workers. 2010. ISBN 978 92 4 159996 2

Other Publications: Published letters

1. Tickell KD and **Denno DM**. Efficacy of World Health Organization Guideline in Facility-Based Reduction of Mortality in Severely Malnourished Children from Low and Middle Income Countries. J Paediatr Child Health. Sep; 53(9): 925, 2017. PMID: 28868770 doi: 10.1111/jpc.13637.

Other Publications: Reports – In request from and submitted to the Bill and Melinda Gates Foundation (as a contributor):

1. Keusch GT, Black R, **Denno DM**, Duggan C, Guerrant R, Lavery J, Rosenberg I, Nataro J, Ryan E, Tarr PI, Ward H, Bhutta Z, Coovadia H, Lima A, Ramakrishna B, Zaidi A. Final Report of the Working Group to Develop a Clinical Definition of Environmental Enteric Dysfunction. Submitted to Bill and Melinda Gates Foundation, September 2, 2012.
2. **Denno DM**, VanBuskirk K, Nelson ZC, Musser CA, Tarr PI. Tropical Enteropathy/Enteric Dysfunction: Opportunities to Advance Current Knowledge. Submitted to Bill and Melinda Gates Foundation, November 9, 2012.
3. Nelson ZC, VanBuskirk K, Tarr PI, **Denno DM**. Environmental Enteric Dysfunction: An Exploratory Review of Interventions. Submitted to Bill and Melinda Gates Foundation, March 7, 2014

Other Publications: Report – In request from and submitted to the World Health Organization:

1. **Denno DM**. Providing adolescents sexual and reproductive health services and increasing adolescent demand and community support for their provision: What works? Prepared for Expert Group Meeting organized by World Health Organization and International Women's Health Coalition, New York, February 6, 2013.

Bibliography, Other:

1. Tarr PI, **Denno DM**, Fuchs GJ. Gastrointestinal Infections in Children. Pediatric Update Audiotape. January 3, 2006.

2. **Denno DM**, Stewart C. Global Child Health, Part 1: Overview of Problems, Trends, and Strategies for Improvement. Teaching module for Global Health Education Consortium. 2008.
3. **Denno DM**. Global Child Health, Part 2: Interventions to Combat the Major Childhood Killers. Teaching module for Global Health Education Consortium. 2009.

Abstracts (last 5 years only):

1. Holtz LR, Cao S, Lim E, Zhao G, Irma K, Bauer IK, Kirkwood CD, Warner B, Tarr PI, Klein EJ, Denno DM, Stine OC, Wang D. Stool Virome Differs with Geography and Age. Poster presentation at 49th US-Japan Conference on Cholera and Other Bacterial Enteric Infections Meeting, Gainesville, January 15, 2015. (Abstract No: 6736).
2. Tickell KD, Walson JL, John-Stewart GC, Denno DM, Richardson BA, Naulikha JM, Singa BO, Kirera RK, Swierczewski BE, Pavlinac PB. Clinical presentation and pathogen distribution among malnourished children with acute diarrhea. Poster presentation at 64th ASTHM conference, Philadelphia, October 2015. (Abstract No: LB-5326)
3. Arndt MB, Mahfuz M, Ahmed T, Haque R, Gazi MA, John-Stewart GC, Denno DM, Richardson BA, Scarlett JM, Walson JL. (2016) Fibroblast Growth Factor 21 as a biomarker of nutrition responsiveness. Poster presented at the 3rd International Conference on Nutrition & Growth, March 17-19, 2016, Vienna, Austria. (Abstract No. NGC16-0490)
4. Ickes SB, Naila N, Nahar B, Lazarus M, Ritter G, Hossain M, Mahfuz M, Ahmed T, **Denno D**, Walson J. Those who care much understand much.” Maternal perceptions of children’s appetite: perspectives from urban and rural caregivers of diverse parenting experience in Bangladesh. Poster presented at Experimental Biology 2017, Chicago, Illinois. April 25, 2017 (Abstract No. 2173).
5. Ickes SB, Hossain M, Rice LR, Ritter G, Naila N, Nahar B, Mahfuz M, **Denno D**, Ahmed T, Walson J. Maternal perceptions of child growth: findings from focus groups in younger and older mothers in Bangladesh. Poster presented at Experimental Biology 2017, Chicago, Illinois. April 25, 2017 (Abstract No. 2160).
6. Pavlinac PB, Brander RL, Atlas HE, John-Stewart GC, Denno DM, Walson JL. Interventions for the Post-acute Consequences of Diarrheal Disease in Children: A Systematic Review. Presented (by Pavlinac PB) at the 35th Annual Meeting of the European Society for Paediatric Infectious Diseases. May 23, 2017 (Abstract No. ESP17-0739).
7. Sukhtankar P, Tickell KD, Tigoi C, Olima C, Soreng J, Mangale DI, Bourdon C, **Denno DM** Bandsma R, Walson J, Berkley JA, on behalf of the CHAIN Network. Initiation of the Childhood Acute Illness & Nutrition (CHAIN) Network. Presented by Sukhtankar P at Kenya Pharmaceutical Association 14th Annual Scientific Conference. Kisumu, Kenya. June 30, 2017.
8. Mangale DI, Tickell KD, Thitiri J. Timbwa M, Ng’ang’a JW, Sukhtankar PD, Berkley JA, Walson JL, **Denno DM**. Comparison of severe acute malnutrition (SAM) management across 3 Kenyan hospitals participating in the CHAIN network. Presented by Mangale DI at

Kenya Pharmaceutical Association 14th Annual Scientific Conference. Kisumu, Kenya. June 30, 2017.

9. Tickell KD, Mangale DI, Tornberg-Belanger SN, Thirti J, Timbwa M, Nijrammadazi J, Chisti MJ, Ahmed T, Khan AF, Saleem AF, Kazi Z, Mupere E, Mukisa J, Sukhtankar P, Berkley J, Walson JL, **Denno DM**. Barriers to pediatric inpatient care guideline adherence: a mixed method assessment of eight hospitals in Asia and Africa. Poster presented at the 66th Annual American Society of Tropical Medicine and Hygiene Meeting, Baltimore, Maryland. November 6, 2017. (Abstract No. 654)
10. *Tornberg-Belanger SN, Tickell KD, Mangale DI, Ahmed T, Chisti MJ, Kazi Z, Mukisa J, Mupere E, Nijrammadzi J, Saleem J, Thitiri J, Timbwa M, Sukhtankar P, Walson JL, Berkley JA, **Denno DM**. Pediatric Inpatient Antibiotic Prescription Practices in the CHAIN Network Hospitals at Baseline. Poster presented at the 66th Annual American Society of Tropical Medicine and Hygiene Meeting, Baltimore, Maryland. November 6, 2017. (Abstract No. 517).
11. Arndt MB, Pavlinac PB, Richardson BA, Ahmed T, Mahfuz M, Haque Rashidul, John-Stewart JC, **Denno DM**, Walson JL. Early enteropathogenic *E. coli* infections associated with growth faltering at 24 months of age in urban Bangladesh. Poster presented at the 66th Annual American Society of Tropical Medicine and Hygiene Meeting, Baltimore, Maryland. November 7, 2017. (Abstract No 1139).
12. *Paul SL, Tickell KD, Singa B, Ickes S, **Denno DM**. Knowledge, Attitudes, and Practices of Kenyan Healthcare Workers Regarding Pediatric Discharge from Hospital. Poster presented at the 67th Annual American Society of Tropical Medicine and Hygiene Conference. New Orleans, LA. October 29, 2018. (Abstract No. 506).
13. *Paul SL, Tickell KD, Singa B, Ickes S, **Denno DM**. Knowledge, Attitudes, and Practices of Kenyan Healthcare Workers Regarding Pediatric Discharge from Hospital. Poster presented at the University of Nairobi STD/AIDS Annual Collaborative Scientific Review Meeting 2019. Nairobi, Kenya. January 30, 2019.
14. **Denno DM**, Finch P, Kamiza S, Liu TC, Tart P, Bandsma R, Niemann L, Voskuil W. Intestinal Sampling: A Feasible Component of Postmortem Minimally Invasive Tissue Sampling Procedures. Poster presented at the 68th Annual American Society of Tropical Medicine and Hygiene Conference. National Harbor, Maryland. November 21, 2019. (Abstract No. LB-5091).
15. Namusanya DM, Lawrence S, Hamuza A, Huwa C, Kelley M, Molyneux S, Voskuil W, **Denno D**, Desmond N, Chasweka, D. Minimally invasive tissue sampling among hospital-based child deaths in Blantyre, Malawi: The role of social relationships and power-dynamics. Presented by Dave M. Namusanya at the 68th Annual American Society of Tropical Medicine and Hygiene Conference. National Harbor, Maryland. November 21, 2019. (Abstract No. 1513).

**Indicates a student writing on a project for which I was her primary supervisor.*

Invited International Presentations:

1. Appropriate Use of Antibiotics in Pediatric Infections. Presented at 2nd Palestinian Symposium for Continuing Medical Education (sponsored by the Ministry of Health of the Palestinian National Authority and Physicians for Peace). Bir Zeit University, Ramallah, April, 1997.
2. Providing adolescents sexual and reproductive health services and increasing adolescent demand and community support for their provision: What works? Expert Group on Adolescents' Sexual and Reproductive Health Programming co-organized by World Health Organization and International Women's Health Coalition. New York, February 6, 2013.
3. Overview of the evidence supporting current treatment guidelines for severe acute malnutrition and moderate acute malnutrition. Acute Illness and Undernutrition Convening. Panel presentation. Bill and Melinda Gates Foundation. May 20, 2015.
4. What's the goal? Defining EED in the Context of Therapeutic Trials. Commonwealth Association of Pediatric Gastroenterology & Nutrition Meeting 2017. Lusaka, September 27, 2017.
5. MITS in CHAIN: Improving Cause of Death (COD) Attribution. Minimally Invasive Tissue Sampling Alliance 1st Annual Meeting. Barcelona, Spain. June 4, 2018.
6. An Overview of the EED Biopsy Initiative (EEDBI) Consortium. Pre-Clinical Gut Health Consortium 2nd Annual Meeting. Bill and Melinda Gates Foundation, Seattle, WA. May 1, 2019.
7. MITS in Malawi: A First Look at the Feasibility of Intestinal Sampling. Minimally Invasive Tissue Sampling Alliance 2nd Annual Meeting. Seattle, WA. May 20, 2019.
8. Enteropathy biomarkers: How useful are they? Commonwealth Association of Pediatric Gastroenterology & Nutrition 16th Scientific Meeting. Toronto, Canada. October 2, 2019.
9. The EED Biopsy Initiative: The Enteric Entrée to EED. Commonwealth Association of Pediatric Gastroenterology & Nutrition 16th Scientific Meeting. Toronto, Canada. October 3, 2019.

Invited National Presentations:

1. Denno DM, Tarr PI. Unexplained diarrhea and risk factors for sporadic reportable enteric infections in children: interim findings from a case control study in the Pacific Northwest. Presented to Risk Assessment Consortium Council Meeting, College Park, MD. March 30, 2006.
2. Panel presentation on Global Health Education Training Programs. Presented to American Academy of Pediatrics Annual Meeting, Section on International Child Health, San Francisco, CA. Oct 30, 2007.

3. Panel presentation on Environmental Enteropathy. Invited to present at American Society of Tropical Medicine and Hygiene, Philadelphia, PA. December 6, 2011.
4. Noninvasive biomarkers of EED: The quest for predictors, precision, and prevention. Invited to present at the Environmental Enteric Dysfunction Convening at the Rockefeller Foundation. New York City, NY. February 27, 2018.
5. The Nexus of Poop and Public Health: Harnessing the Human Gut Microbiome for Global Health. 67th Annual American Society of Tropical Medicine and Hygiene Meeting. New Orleans, LA. Symposium Co-Chair. Oct 31, 2018.

Invited Local Presentations:

1. Pediatric Global Health: Problems and Interventions. Presented at Seattle Children's Hospital Grand Rounds, Seattle, WA. January 16, 2006.
2. Global Pediatrics Health: Problems and Interventions. Presented at 34th Annual Advances in Family Practice and Primary Care. University of Washington Health Sciences Center. Seattle, WA. September 15, 2006.
3. Development of field appropriate biomarkers to assess environmental enteric dysfunction. Presented at The University of Washington's Nutrition Think Tank Technical Symposium. Bill and Melinda Gates Foundation, Seattle, WA. October 15, 2014.

WWAMI Visiting Professor Presentations:

1. Pediatric Global Health: Problems and Interventions. WWAMI Visiting Professor Round Table Discussion. Yakima Valley Memorial Hospital. July 12, 2006.
2. Pediatric Global Health: Problems and Interventions. WWAMI Visiting Professor Lecture. Toppenish Community Hospital Grand Rounds. July 13, 2006.

Other Presentations:

1. Maternal knowledge, attitudes and practices concerning acute respiratory infections in their under-five year old children in rural and urban African populations. Panel presentation at American Public Health Association 122nd Annual Meeting, 1994.
2. Health Effects of War and Sanctions on the People of Iraq. Presented to Northwest International Health Action Coalition. Seattle, June 1996.
3. Activism and International Health. Presented to 2002 University of Washington School of Medicine International Health Interest Group. University of Washington, Seattle, November, 2002.

4. Health Effects of War and Sanctions on the People of Iraq. Presented at Humanitarian fundraiser cosponsored by Northwest International Health Action Coalition. Seattle, August 2003.
5. Casualties of War: Iraq and Health Care. Presented to Third Annual Western Regional International Health Conference. Seattle, February 19, 2005.
6. Pediatric Global Health: Problems and Interventions. Swedish Hospital Family Medicine Residency Program conference. December 15, 2006.
7. Health in modern Iraq: Impact of dictatorship, war, sanctions, occupation and more war. Presented to Third Annual Western Regional International Health Conference. Seattle, February 17, 2007.
8. Risk Factors for Salmonellosis in Children in Washington State. Presented at Pediatric Academic Societies' Annual Meeting in Toronto, Canada, May 8, 2007.
9. International Launch, Special Supplement of Journal of Adolescent Health on Adolescent Sexual and Reproductive Health and Rights. Organizer of Seattle launch, Presenter and moderator of panel discussants. December 11, 2014.
10. Minimally Invasive Tissue Sampling (MITS) in CHAIN: Improving Cause of Death (COD) Attribution. Co-presented at 3rd Annual Childhood Acute Illness and Nutrition Network Convening. Kampala, Uganda. February 13, 2018.
11. MITS in CHAIN: Improving Cause of Death (COD) Attribution. Co-presented at 1st Annual MITS Surveillance Alliance Meeting, Barcelona, Spain. June 4, 2018.
12. MITS in CHAIN: Improving Cause of Death (COD) Attribution. Childhood Acute Illness and Nutrition Network Convening. Bill and Melinda Gates Foundation. Seattle, WA. July 9, 2018.