

Center for Global Health Publications

July 2022 – June 2023

The Center for Global Health Faculty members have made major contributions to the fields as evidenced by an impressive list of 147 publications and 30 presentations completed between July 2022 – June 2023. The publications and presentations are listed below.

Adolescent, School, and Mental Health (12)

Arboviruses (18)

Childhood Development (19)

COVID-19 (28)

Emergency Medicine (11)

Epidemiology (2)

E-Health (5)

Global Health Education (4)

HIV (10)

Influenza (2)

Maternal & Reproductive Health (10)

Neonatal Care (4)

Oncology (7)

RSV (10)

Vaccine Research & Policy (5)

Madiha Abdel-Maksoud:

Abdo M, Kunisaki KM, Morris A, Stosor V, Chang D, D'Souza G, Crothers K, **Abdel-Maksoud M**, DiGuseppi C, Brown TT, MaWhinney S, Erlandson KM. Pulmonary and physical function limitations in aging men with and without HIV from the Multicenter AIDS Cohort Study (MACS). *Ann Epidemiol*. 2022 Dec;76:50-60. doi: 10.1016/j.annepidem.2022.10.005. Epub 2022 Oct 14. PMID:36244514; PMCID: PMC9881119. Abdo M, Kunisaki KM, Morris A, Stosor V, Chang D, D'Souza G, Crothers K, **Abdel-Maksoud M**, DiGuseppi C, Brown TT, Erlandson KM, MaWhinney S. Pulmonary Function and Quality of Life in Aging Men With and Without HIV from the Multicenter AIDS Cohort Study. *AIDS Res Hum Retroviruses*. 2023 Jun 28 doi: 10.1089/AID.2023.0001. Epub ahead of print. PMID: 37276144.

Lisa L. Abuogi

Mick E, Tsitsiklis A, Spottiswoode N, Caldera S, Serpa PH, Detweiler AM, Neff N, Pisco AO, Li LM, Retallack H, Ratnasiri K, Williamson KM, Soesanto V, Simões EAF, Smith C, **Abuogi L**, Kistler A, Wagner BD, DeRisi JL, Ambroggio L, Mourani PM, Langelier CR. Upper airway gene expression shows a more robust adaptive immune response to SARS-CoV-2 in children. *Nat Commun*. 2022 Jul 8;13(1):3937. doi: 10.1038/s41467-022-31600-0. PMID: 35803954; PMCID: PMC9263813.

Patel, R.C., Oyaro, P., Thomas, K.K., Wagude, J., Mukui, I., Brown, E., Hassan, S.A., Kinywa, E., Oluoch, F., Odhiambo, F., Oyaro, B., Kingwara, L., Kariuki, E., Yongo, N., Otieno, L., John-Stewart, G.D., **Abuogi, L.L.** Impact of point-of-care HIV viral load and targeted drug resistance mutation testing on viral suppression among Kenyan children on antiretroviral therapy: Results from an open-label, randomized controlled trial (Opt4Kids). *Lancet Child Adolesc Health*. 2022 Oct;6(10):681-691. doi: 10.1016/S2352-4642(22)00191-2. Epub 2022 Aug 18. PubMed PMID: 35987208 Eshun-Wilson, I., Akama, E., Adhiambo, F., Kwena, Z.,

Oketch, B., Obatsa, S., Iguna, S., Kulzer, J.L., Nyanga, J., Nyandieka, E., Scheve, AI, Geng, E.H., Bukusi, E.A., **Abuogi, L.L.** Adolescent and young adult (AYA) preferences for financial incentives to support adherence to antiretroviral therapy in Kenya: A mixed methods study. *J Int AIDS Soc.* 2022 Sep;25(9):e25979. doi: 10.1002/jia2.25979. PubMed PMID: 36109803.

Edmonds A, Brazier E, Musick BS, Yotebieng M, Humphrey J, **Abuogi LL**, Adedimeji A, Keiser O, Msukwa M, Carlucci JG, Maia M, Pinto JA, Leroy V, Davies MA, Wools-Kaloustian KK. Clinical and programmatic outcomes of HIV-exposed infants enrolled in care at geographically diverse clinics, 1997-2021: A cohort study. *PLoS Med.* 2022 Sep;19(9):e1004089. doi: 10.1371/journal.pmed.1004089. eCollection 2022 Sep. PubMed PMID: 36107857; PubMed Central PMCID: PMC9477260.

Qian SRW, Hassan SA, Scallon AJ, Oyaro P, Brown E, Wagude J, Mukui I, Kinywa E, Oluoch F, Odhiambo F, Oyaro B, Kingwara L, Yongo N, Karauki E, Gao J, Otieno L, John-Stewart GC, **Abuogi LL**, Patel RC. After viral load testing, I get my results so I get to know which path my life is taking me”: Qualitative insights on routine and point-of-care viral load testing in western Kenya from the Opt4Kids and Opt4Mamas studies. *BMC Health Services Research* 2022 Dec. <https://pubmed.ncbi.nlm.nih.gov/36528677/>

Caitlin Bernard , Shukri A. Hassan, John M. Humphrey, Julie Thorne, Mercy Maina, Beatrice Jakait, Evelyn Brown, Nashon Yongo, Caroline Kerich, Sammy Changwony, Shirley Rui W. Qian, Andrea J. Scallon, Sarah A. Komanapalli, Leslie A. Enane, Patrick Oyaro, **Lisa L. Abuogi**, Kara Wools-Kaloustian and Rena C. Patel Impacts of the COVID-19 Pandemic on Access to HIV and Reproductive Health Care Among Women Living with HIV (WLHIV) in Western Kenya: A mixed methods analysis. *Front. Glob. Womens Health.* Dec 2022. <https://pubmed.ncbi.nlm.nih.gov/36578364/>

Abuogi, L.L., Kulzer, J.K., Akama, E., Odeny, T.A., Eshun-Wilson, I., Petersen, M., Shade, S.B., Montoya, L.M., Beres, L.K., Iguna, S., Adhiambo, H.F., Osoro, J., Opondo, I., Sang, N., Kwena, Z., Bukusi, E.A., Geng, E. Adapt for Adolescents: Protocol for a sequential multiple assignment randomized trial to improve retention and viral suppression among adolescents and young adults living with HIV in Kenya. *Cont Clin Trials* Nov 2022 Preprint SSRN 13 Dec 2022 https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4293404

Humphrey J, Nagel E, Carlucci JG, Edmonds A, Kinikar A, Anderson K, Leroy V, Machado D, Yin DE, Luque MT, Amrossani-Folquet M, Mbewe S, Suwanlerk T, Munyaneza A, Patel RC, Musick B, **Abuogi L**, Wools-Kaloustian K, on behalf of IeDEA. Integration of HIV care into maternal and child health services in the Global IeDEA Consortium. *Front Glob Womens Health.* 2023 Apr 17;4. DOI: <https://doi.org/10.3389/fgwh.2023.1066297>.

Levison J, McKinney J, Duque A, Hawkins J, Ver Hoeve Bowden , Dorland , Bitnun A, Kazmi , Campbell DM, MacGillivray , Yudin MH, Powell A, Datta , **Abuogi LL**, Weinberg A, Rakhmanina , Walsh Mareuil J, Hitti J, Boucoiran I, Kakkar , Rahangdale L, Seidman , Widener . Breastfeeding among people with HIV in North America: a multisite study. [preprint]. 2023 April. Available from: https://academic.oup.com/cid/advance-article-abstract/doi/10.1093/cid/ciad235/7133158?utm_source=advanceaccess&utm_campaign=cid&utm_medium=email. DOI: <https://doi.org/10.1093/cid/ciad235>.

Jelic M, Silveira L, Lang S, Curran-Hays S, Boyer S, Carter B, Choi YJ, Fresia J, Maeda L, Nerguizian D, Graff K, **Abuogi LL**, Smith C. Changing Characteristics of Children

with COVID-19 in Colorado Admitted During Different Variant Periods. PIDJ. April 20, 2023. DOI: 10.1097/INF.0000000000003944

Invited Presentations

2022 Breastfeeding in Women Living with HIV in high-resource settings
University of Miami – Miller School of Medicine
Department of Obstetrics, Gynecology & Reproductive Sciences

2022 Breastfeeding in Women Living with HIV in high-resource settings
Florida Department of Health Children's Medical Services

2022 Southeast AIDS Education & Training Center (SE AETC) Webcast. Women living with HIV and Breastfeeding in High-Income Countries. Webcast. October 19, 2022

Edwin Asturias

COVID-19 Attitudes and Vaccine Hesitancy among an Agricultural Community in Southwest Guatemala: A Cross-Sectional Survey. Rojop N, Calvimontes DM, Barrios E, Lamb MM, Paniagua-Avila A, Monzon J, Duca LM, Iwamoto C, Chard AN, Gomez M, Arias K, Roell Y, Bolanos GA, Zielinski-Gutierrez E, Azziz-Baumgartner E, Lopez MR, Cordon-Rosales C, **Asturias EJ**, Olson D. *Vaccines* (Basel). 2023 Jun 2;11(6):1059. doi: 10.3390/vaccines11061059. PMID: 37376448

Cumulative Febrile, Respiratory, and Gastrointestinal Illness Among Infants in Rural Guatemala and Association With Neurodevelopmental and Growth Outcomes.

Olson D, Lamb MM, Connery AK, Colbert AM, Calvimontes DM, Bauer D, Paniagua-Avila MA, Martínez MA, Arroyave P, Hernandez S, Colborn KL, Roell Y, Waggoner JJ, Natrajan MS, Anderson EJ, Bolaños GA, El Sahly HM, Munoz FM, **Asturias EJ**. *Pediatr Infect Dis J*. 2023 Jun 21. doi: 10.1097/INF.0000000000004006. Online ahead of print. PMID: 37343218

Safety of Streptococcus pyogenes vaccines: Anticipating and Overcoming Challenges for Clinical Trials and Post Marketing Monitoring. **Asturias EJ**, Excler JL, Ackland J, Cavaleri M, Fulurija A, Long R, McCulloch M, Sriskandan S, Sun W, Zühlke L, Kim JH, Dale JB, Steer AC. *Clin Infect Dis*. 2023 May 26;ciad311. doi: 10.1093/cid/ciad311. Online ahead of print. PMID: 37232372

Community perceptions of vaccine advocacy for children under five in rural Guatemala.

Williams JTB, Robinson K, Abbott E, Rojop N, Shiffman M, Rice JD, O'Leary ST, **Asturias EJ**.

PLOS Glob Public Health. 2023 May 22;3(5):e0000728. doi: 10.1371/journal.pgph.0000728. eCollection 2023. PMID: 37216324

Differences in parental vaccine confidence and attitudes by health system in Guatemala and their impact on immunization timeliness. Kuan-Mahecha MA, Rahman S, Martínez-Rivera P, Lamb MM, **Asturias EJ**. *Vaccine*. 2023 May 5;41(19):3099-3105. doi: 10.1016/j.vaccine.2023.03.064. Epub 2023 Apr 13. PMID: 37061374

Clinical and Economic Impact of COVID-19 on Agricultural Workers, Guatemala¹.

Olson D, Calvimontes DM, Lamb MM, Guzman G, Barrios E, Chacon A, Rojop N, Arias K, Gomez M, Bolanos GA, Monzon J, Chard AN, Iwamoto C, Duca LM, Vuong N, Fineman M, Lesteberg K, Beckham D, Santiago ML, Quicke K, Ebel G, Gutierrez EZ, Azziz-Baumgartner E, Hayden FG, Mansour H, Edwards K,

Newman LS, **Asturias EJ**. *Emerg Infect Dis*. 2022 Dec;28(13):S277-S287. doi: 10.3201/eid2813.212303.PMID: 36502430

Challenges and lessons learned from the rapid operationalization of a prospective cohort to study the natural history and neurodevelopmental outcomes of postnatal Zika virus infection among infants and children in rural Guatemala. Paniagua-Avila A, Olson D, Connery A, Calvimontes DM, Bolanos GA, Lamb MM, Bauer D, Ralda A, Rojop N, Barrios E, Chacon A, Gomez M, Arroyave P, Hernandez S, Martinez MA, Bunge-Montes S, Colbert A, Arias K, Brazeale G, Holliday A, Tomashek KM, El Sahly HM, Keitel W, Munoz FM, **Asturias EJ**. *PLoS Negl Trop Dis*. 2022 Nov 16;16(11):e0010480. doi: 10.1371/journal.pntd.0010480. eCollection 2022 Nov. PMID: 36383617

Meningococcal disease in North America: Updates from the Global Meningococcal Initiative. **Asturias EJ**, Bai X, Bettinger JA, Borrow R, Castillo DN, Caugant DA, Chacon GC, Dinleyici EC, Echaniz-Aviles G, Garcia L, Glennie L, Harrison LH, Howie RL, Itsko M, Lucidarme J, Marin JEO, Marjuki H, McNamara LA, Mustapha MM, Robinson JL, Romeu B, Sadarangani M, Sáez-Llorens X, Sáfadi MAP, Stephens DS, Stuart JM, Taha MK, Tsang RSW, Vazquez J, De Wals P. *J Infect*. 2022 Dec;85(6):611-622. doi: 10.1016/j.jinf.2022.10.022. Epub 2022 Oct 20. PMID: 36273639 Review.

Repeated Rapid Active Sampling Surveys Demonstrated a Rapidly Changing Zika Seroprevalence among Children in a Rural Dengue-endemic Region in Southwest Guatemala during the Zika Epidemic (2015-2016). Lamb MM, Paniagua-Avila A, Zacarias A, Rojop N, Chacon A, Natrajan MS, Waggoner JJ, Lopez MR, Cordon-Rosales C, Huleatt JW, Bonaparte MI, **Asturias EJ**, Olson D. *Am J Trop Med Hyg*. 2022 Oct 17;107(5):1099-1106. doi: 10.4269/ajtmh.22-0399. Print 2022 Nov 14. PMID: 36252798

Vital sign predictors of severe influenza among children in an emergent care setting. Rao S, Moss A, Lamb M, Innis BL, **Asturias EJ**. *PLoS One*. 2022 Aug 12;17(8):e0272029. doi: 10.1371/journal.pone.0272029. eCollection 2022. PMID: 35960719

Anthropometric proxies for child neurodevelopment in low-resource settings: length- or height-for-age, head circumference or both? Lamb MM, Connery AK, Colbert AM, Bauer D, Olson D, Paniagua-Avila A, Calvimontes DM, Bolaños GA, Sahly HME, Muñoz FM, **Asturias EJ**. *J Dev Orig Health Dis*. 2023 Feb;14(1):61-69. doi: 10.1017/S2040174422000423. Epub 2022 Jul 18. PMID: 35844103

A prospective cohort study of head circumference and its association with neurodevelopmental outcomes in infants and young children in rural Guatemala. Connery AK, Lamb MM, Colbert AM, Bauer D, Olson D, Paniagua-Avila A, Calvimontes M, Bolaños GA, Sahly HME, Muñoz FM, **Asturias EJ**. *J Dev Orig Health Dis*. 2022 Dec;13(6):779-786. doi: 10.1017/S204017442200023X. Epub 2022 Apr 22. PMID: 35450541

Corey Bills

Theron E, **Bills CB**, Calvello Hynes EJ, Stassen W, Rublee C. Climate change and emergency care in Africa: A scoping review. *Afr J Emerg Med*. 2022 Jun;12(2):121-128. doi: 10.1016/j.afjem.2022.02.003. Epub 2022 Mar 26. PMID: 35371912; PMCID: PMC8958270.

Fruhan S, **Bills CB**. Association of a Callback Program With Emergency Department Revisit Rates Among Patients Seeking Emergency Care. *JAMA Netw Open*. 2022 May 2;5(5):e2213154. doi: 10.1001/jamanetworkopen.2022.13154. PMID: 35594046.

Bhaumik D, Bhaumik SS, Thaker AA, Timpone VM, **Bills CB**, Patten L, Pattee J, Chow D, Sugrue LP, Callen AL. Ordering Characteristics Predictive of Noncontrast CT Head Positivity in the Emergency Department. *Acad Radiol*. 2022 May 30;S1076-6332(22)00297-5. doi: 10.1016/j.acra.2022.05.001. Epub ahead of print. PMID: 35654657.

Garbern SC, Relan P, O'Reilly GM, **Bills CB**, Schultz M, Trehan I, Kivlehan SM, Becker TK. A systematic review of acute and emergency care interventions for adolescents and adults with severe acute respiratory infections including COVID-19 in low- and middle-income countries. *J Glob Health*. 2022 Nov 8;12:05039. doi: 10.7189/jogh.12.05039. PMID: 36342777; PMCID: PMC9639745.

Kivlehan SM, Hexom BJ, Bonney J, et al. Global emergency medicine: A scoping review of the literature from 2021. *Acad Emerg Med*. 2022;29(10):1264-1274. doi:10.1111/acem.14575

Epps L, Ramachandran A, Yi S, Mayah A, Burkholder T, Jaung M, Haider A, Wesseh P, Shakpeh J, **Bills C**, Enriquez K. Implementation and outcomes of a comprehensive emergency care curriculum at a low-resource referral hospital in Liberia: A novel approach to application of the WHO Basic Emergency Care toolkit. *PLoS One*. 2023 Mar 15;18(3):e0282690. doi:10.1371/journal.pone.0282690. PMID: 36921009.

Hirner S, Dhakal J, Broccoli M, Ross M, Calvello Hynes E, **Bills CB**. Defining Measures of Emergency Care Access in Low- and Middle-Income Countries: A scoping review. *BMJ open* vol. 13,4 e067884. 17 Apr. 2023, doi:10.1136/bmjopen-2022-067884

Mould-Millman NK, Dixon J, Beaty B, Suresh DK, Shaheem, Bester B, Moreira F, Cunningham C, Moodley K, Cermak R, Schauer S, Maddry J, **Bills CB**, Havranek E, Bebartha V Ginde A. Improving Prehospital Traumatic Shock Care – Implementation and Clinical Effectiveness of a Pragmatic, Quasi-Experimental Trial in a Resource-Constrained South African Setting. *BMJ Open* 2023;13:e060338. doi: 10.1136/bmjopen-2021-060338

Pickering A, Malherbe P, Nambuba J, Bills CB, Calvello Hynes E, Rice B. Clinical emergency care quality indicators in Africa: a scoping review and data summary. *BMJ Open* 2023;13:e069494. doi: 10.1136/bmjopen-2022-069494

Relan P, Garbern SC, O'Reilly GM, **Bills CB**, Schultz M, Trehan I, Kivlehan SM, Becker TK. Emergency care interventions for paediatric severe acute respiratory infections in low- and middle-income countries: A systematic review and narrative synthesis. *J Glob Health*. 2023;13:04065. Published 2023 Jun 9. doi:10.7189/jogh.13.04065

Mirella Calvimontes:

Paniagua-Avila A, Olson D, Connery A, **Calvimontes DM**, Bolanos GA, Lamb MM, Bauer D, Ralda A, Rojop N, Barrios E, Chacon A, Gomez M, Arroyave P, Hernandez S, Martinez MA, Bunge-Montes S, Colbert A, Arias K, Brazeale G, Holliday A, Tomashek KM, El Sahly HM, Keitel W, Munoz FM, Asturias EJ. Challenges and lessons learned from the rapid operationalization of a prospective cohort to study the natural history and neurodevelopmental outcomes of postnatal Zika virus infection among infants and children in rural Guatemala. *PLoS Negl Trop Dis*. 2022 Nov 16;16(11):e0010480. doi: 10.1371/journal.pntd.0010480. PMID: 36383617; PMCID: PMC9710790.

Connery AK, Lamb MM, Colbert AM, Bauer D, Olson D, Paniagua-Avila A, **Calvimontes M**, Bolaños GA, Sahly HME, Muñoz FM, Asturias EJ. A prospective cohort study of head circumference and its association with neurodevelopmental outcomes in infants and young children in rural Guatemala. *J Dev Orig Health Dis*. 2022 Dec;13(6):779-786. doi: 10.1017/S204017442200023X. Epub 2022 Apr 22. PMID: 35450541.

Megan Cherewick

Cherewick, M., Hipp, E., Njau, P., Dahl, RE. Growth mindset, persistence, and self-efficacy in early adolescents: Structural equation models of associations with depression, anxiety, and externalizing behaviours. *Global Public Health*. 18(1) (2023). doi: <https://doi.org/10.1080/17441692.2023.2213300>

Cherewick, M., Dahl, RE., Bertomen, S., Hipp., E., Shreedar, P., Njau, P., Leiferman, J. Risk and Protective Factors for Mental Health and Wellbeing Among Adolescent Orphans. *Health Psychology and Behavioral Medicine*. 11.1 (2023): doi: 10.1080/21642850.2023.2219299.

Cherewick, M., Dahl, RE., Rubin, D., Leiferman, J., Njau, P. Psychometric validation of the collective asset Utu: associations with coping strategies and resilience during adolescence. *Global Health Research and Policy*. 8(1), 15 (2023). doi: <https://doi.org/10.1186/s41256-023-00303-4>

Cherewick, M., Dahl, RE., Leiferman, J., Hipp, E., Schmiede, S. Psychometric properties of the empathy questionnaire for children and adolescents (EmQue-CA) in a sample of Tanzanian adolescents. *Frontiers in Psychology*. 2022. doi: 10.3389/fpsyg.2022.981967

Cherewick, M., Schmiede, S., Hipp, E., Njau, P., Leiferman, J., Dahl, RE. A developmental analysis of dimensions of empathy during adolescence: Behavioral empathy but not cognitive empathy is associated with lower psychopathology. *Accepted at PLOS Global Public Health*. Oct 2022. doi: 10.1371/journal.pgph.0001231

Cherewick, M., and Matergia, M. Neurodiversity in practice: a conceptual model of autistic strengths and potential mechanisms of change to support positive mental health and wellbeing in autistic children and adolescents. *Advances in Neurodevelopmental Disorders*. July, 2023. (in press).

Presentations:

Cherewick M. An Introduction to Autism Spectrum Disorders. Darjeeling Ladenla Road Prerna, Darjeeling, India. December 2022.

Cherewick M. An Introduction to the Developmental Science of Adolescence. Darjeeling Ladenla Road Prerna, Darjeeling, India. October 2022.

May Chu:

Specimen sharing for epidemic preparedness: building a local-to-global virtual biorepository framework. Authors: Judith Giri, Laura Pezzi, Rodrigo Cachay, Rosa Margarita Gèlvez Ramirez, Adirana Tami, Sarah Bethencourt, Anylea Lozano, Julia Poje, Thomas Jaenisch, **May Chu**
<https://www.medrxiv.org/content/10.1101/2023.01.17.23284659v1.full.pdf>

Workshop:

Building a Grass-roots Virtual Biorepository System from the Ground Up. The Global Health Network Conference, November 23-25, 2022, Cape Town, South Africa

Symposium:

The State of Zika Virus Diagnostics in 2022: Innovative strategies and qualified resources that have been advanced since 2019. The American Society for Tropical Medicine and Hygiene annual meeting, Seattle, Washington. November 1, 2022

Co-chairs:

May C. Chu, Ph.D. Center for Global Health and Department of Epidemiology, Colorado School of Public Health, Aurora, CO
Thomas Jaenisch, MD, Ph.D. Center for Global Health and Department of Epidemiology, Colorado School of Public Health, Aurora, CO

Poster:

The virtual biorespository system for open access to samples: The online Delphi prioritization outcome. The American Society for Tropical Medicine and Hygiene annual meeting, Seattle, Washington, October 31, 2022. Authors: Amy Price, Layla Abdulbaki, Judith Giri, Julia Poje, Geoffrey Winstanley, Zoe Steinberg, Thomas Jaenisch, **May Chu**

Amy Connery

Connery, A.K.*, Lamb, M.M*, Colbert, A.M., Bauer, Desirée, Olson, Daniel, Paniagua-Avila, Alejandra, Calvimontes, Mirella, Bolaños, Guillermo Antonio, El Sahly, Hana, Muñoz, F.M.**, Asturias, E.J.** (2022). A Prospective Cohort Study of Head Circumference and its Association with Neurodevelopmental Outcomes in Infants and Young Children in Rural Guatemala. *Journal of Developmental Origins of Health and Disease*, 1-8 (* co-first author)

Lamb MM*, Connery AK*, Colbert AM, Bauer D, Olson D, Paniagua-Avila A, Calvimontes DM, Bolaños GA, Sahly HME, Muñoz FM, Asturias EJ. (2022). Anthropometric proxies for child neurodevelopment in low-resource settings: length- or height-for-age, head circumference or both? *Journal of Developmental Origins of Health and Disease*, 1-9. (* co-first author)

Paniagua-Avila, A., Olson, D., Connery, A., Calvimontes, D. M., Bolanos, G. A., Lamb, M. M., ... Asturias, E. J. (2022). Challenges and lessons learned from the rapid operationalization of a prospective cohort to study the natural history and neurodevelopmental outcomes of postnatal Zika virus infection among infants and children in rural Guatemala. *PLoS Neglected Tropical Disease*, 2022.05.12.22274987. <https://doi.org/10.1101/2022.05.12.22274987>.

Connery AK, Colbert AM, Lamb MM. (2023). Head circumference may be the best proxy for neurodevelopmental risk in children in low-resource settings. *Archives of Disease in Childhood*;108:287-288.

Connery, A.K., Raghunathan, R.S, Colbert, A.M, Erdodi, L., Warschausky, S., Huth-Bocks, A., Taylor, H.G., Raghunathan, T., Berglund, P., Staples, A.D., Lukomski, A., Kirkland, J., Cano, J., Lajiness-O’Neill, R., and the PediaTrac Project Consortium (2023). The Influence of Sociodemographic Factors and Response Style on Caregiver Report of Infant Developmental Status. *Frontiers in pediatrics*, 10, 1080163. <https://doi.org/10.3389/fped.2022.1080163>

Connery AK., Let’s Stop Complaining That Early Childhood Assessments Do Not Predict IQ. (2023). *JAMA Pediatrics*. Published online March 13, 2023. doi:10.1001/jamapediatrics.2023.0031
Olson, D., Lamb, M. M., Connery, A. K., Colbert, A. M., Calvimontes, M., Bauer Herbruger, D., ... & Asturias, E. J. (2023). Cumulative Febrile, Respiratory, and Diarrheal Illness among Infants in Rural Guatemala and their Association with Neurodevelopmental and Growth Outcomes. *medRxiv*, 2022-09.

Maureen Cunningham:

Cunningham MA, Gorman C, McNulty MC, Chavez C, Luna-Asturias C, Dixon CA, Bull S, Berman S, Allison MA. Engage, Develop, Learn: a pilot randomized clinical trial to test if a mobile application can enhance home support for early cognitive development among children living in poverty. *Mhealth*. 2023 Jan 28;9:4. doi: 10.21037/mhealth-22-13. PMID: 36760785; PMCID: PMC9902235.

Julia Dixon

Suresh, K., **Dixon, J.M.**, Patel, C., Beaty, B., Del Junco, D.J., de Vries, S., Lategan, H.J., Steyn, E., Verster, J., Schauer, S.G. and Becker, T.E., 2022. The epidemiology and outcomes of prolonged trauma care (EpiC) study: methodology of a prospective multicenter observational study in the Western Cape of South Africa. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 30(1), pp.1-11.

Mould-Millman N-K, **Dixon J**, Beaty BL, et al. Improving prehospital traumatic shock care: implementation and clinical effectiveness of a pragmatic, quasi-experimental trial in a resource-constrained South African setting. *BMJ Open*2023;13:e060338. doi:10.1136/bmjopen-2021-060338

Mould-Millman, Nee-Kofi; **Dixon, Julia M.** MD, MPH; Lategan, Hendrick J. et al. Feasibility of Conducting a Military-Relevant Multi-Center Cohort Study to Assess Outcomes of Early Trauma Resuscitative Interventions in a Prolonged Care Civilian Setting. *Journal of Trauma and Acute Care Surgery* ():10.1097/TA.0000000000004066, May 22, 2023. | DOI: 10.1097/TA.0000000000004066

Gretchen J. Domek

Domek GJ, Szafran LH, Zambrano AJ, Silveira L. Impact on maternal postpartum depressive symptoms of a primary care intervention promoting early language: A pilot study. *Matern Child Health J* 2023;27(2):346-355. doi: 10.1007/s10995-022-03550-y

Domek GJ, Szafran LH, Allison M, Kempe A, Zambrano AJ, Silveira L, Camp B. Finger puppets to support early language development: Effects of a primary care-based intervention in infancy. *Clinical Pediatrics* 2023 (Epub ahead of print). doi: 10.1177/00099228231163718

Domek GJ, Silveira L, Kuffel H, Szafran LH, Zambrano AJ, Camp B. Using the Ages & Stages Questionnaire to assess later effects of an infant intervention promoting language in primary care. *BMC Pediatr* 2023;23:162. doi:10.1186/s12887-023-03953-y

Karen Hampanada:

Siegel DR, Fresia J, Fought A, Sheeder J, **Hampanada K**, Appiah L. The Effect of Hormonal Contraception Use on Ovarian Reserve Markers and the Uptake of Assisted Reproductive Technology in Individuals Seeking an Infertility Evaluation. *Cureus*. 2023 Jun 25;15(6):e40927. doi: 10.7759/cureus.40927. PMID: 37496533; PMCID: PMC10368143.

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Presentations:

10/2022: EC Review session of the 6 EU-CAN funded Consortia: “Reconciliation of Cohort Data for Infectious Diseases” (ReCoDiD), European Molecular Biology Laboratory (EMBL), Hinxton, UK

11/2022 “ZIKAlliance, current state of play”, WHO IPD-MA (VIRTUAL)

11/2022 “Performance of ZIKV serology in a cohort setting – lessons learned from ZIKAlliance Consortium”. Invited presentation at the ASTMH symposium on Zika virus diagnostics (#123), Seattle, USA

01/2023 “ZIKV exposure determination in a pregnant women cohort setting – lessons learned from the ZIKAlliance cohort”. Invited presentation at the work on “Continuing Development of Vaccines and Monoclonal Antibodies against Zika Virus” at the NIH in Rockville, MD.

03/2023 “ZIKAlliance - lessons learned about the importance of natural history cohorts and repurposing of cohorts in the context of emerging diseases”, Annual Meeting of the French ARNS on Emerging Infectious Diseases

04/2023 “Diagnostic challenges for ZIKV testing”, Münster, Germany (VIRTUAL)

Molly Lamb

**student, fellow, trainee and/or mentee*

†minority or from a Low or Middle income Country

‡co-first [author or co-senior author](#)

Lendvay TS, Chen J, Harcourt BH, Scholte FEM, Kilinc-Balci S, Ling Lin Y, **Lamb MM**, Price A, Lin YC, Kabra KB, Harbruge E, Thiry E, Heyne B, Laperre J, Page K, Cui Y, Clark T, Smit SJ, Parker R, Timm E, Mores CN, Ludwig-Begall L*, Macia N, Faris P, Evans D, Chu LF, Gallagher T, Jolois O, Patel A, Molloy-Simard V, Homdayjanakul K, Sahni J, Tritsch SR, Wielick C, Simmons S, Mackie C, Mayo M, Lemyre JL, Wagner T, Dam L, Mallot R, Nauwynck H, Willaert JF, Reader S, Hope K, De Jaeger S, Davies J, Liao L, Zhao M, Chu S, Conly JM, Chu MC. ‘Addressing Personal Protective Equipment (PPE) Decontamination: Methylene Blue and Light Inactivates SARS-CoV-2 on N95 Respirators and Masks with Maintenance of Mask Integrity and Fit’. Control Hosp Epidemiol. 2022 Jul;43(7):876-885

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Guest lecture on 'Real World Surveillance' for UCD undergraduate Introduction to Epidemiology course (course instructors Lilliam Ambroggio and Patrick Krueger) Feb 14 2023

EDG presentation: Career Brainstorming Session Jan 25, 2023

Guest lecture: 'History and Current Vaccines Issues in Global Health' in CBHS 6619: Public Health in the Global Community (Joan O'Connell, Instructor) Feb 28th, 2023

Guest lecture: 'Emerging Infectious Diseases' in CBHS 6619: Public Health in the Global Community (Joan O'Connell, Instructor) Mar 14th, 2023

Molly M. Lamb, Anna N. Chard, Diva M. Calvimontes, Lindsey M. Duca, Chelsea Iwamoto, Talia Quandelacy, Jose Monzon, Gerber Guzman, Edgar Barrios, Neudy Rojop, Kareen Arias, Melissa Gomez, Maria Renee Lopez, Claudia Paiz, Guillermo Antonio Bolanos, Kathryn Edwards, Emily Zielinski Gutierrez, Eduardo Azziz-Baumgartner, Celia Cordon-Rosales, Edwin Asturias, Daniel Olson. 'Using a prospective cohort of agricultural workers to quantify household transmission of SARS-CoV-2, Guatemala 2021-2022' *Poster presentation at ASTMH 30OCT2022-03NOV2022 Seattle, WA.*

Jessica Landry

Landry, J; Umphrey, L; May Moser, L. Needs Assessment of a Residency Global Health Pathway. Mar 2023, Aurora, CO. Academy of Medical Educators Education & Innovation Week. Poster.

Claudia Luna-Asturias

[Engage, Develop, Learn: a pilot randomized clinical trial to test if a mobile application can enhance home support for early cognitive development among children living in poverty](#)

Maureen A. Cunningham, Carol Gorman, Monica C. McNulty, Catia Chavez, **Claudia Luna-Asturias**, Cinnamon A. Dixon, Sheana Bull, Stephen Berman, Mandy A. Allison

Sandra Luna Fineman

Das A, Sudhaman S, Morgensten D.... **Luna-Fineman S**... Tabori U. Genomic predictors of response to PD-1 inhibition in children with germline DNA replication repair deficiency. *Nat Med.* 2022 Jan;28(1):125-135, 2022.

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Presentations:

GICC: CUREALL framework, curing 60% by 2030. Radiation Oncology, UCH, U Colorado (Mar 2022)

Retinoblastoma: adjuvant therapy, histopathologic risk factors, and treatment of extraocular disease. TELEO (fellow educational conference, South America) (virtual conference, Spanish) Sept 14, 2022

Michael Matergia:

Cherewick M, Daniel C, Shrestha CC, Giri P, Dukpa C, Cruz CM, Rai RP, **Matergia M**. Psychosocial interventions for autistic children and adolescents delivered by non-specialists in low- and middle-income countries: a scoping review. *Front Psychol.* 2023 Aug 7;14:1181976. doi: 10.3389/fpsyg.2023.1181976. PMID: 37609501; PMCID: PMC10440606.

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Leana May Moser

Landry, J; Umphrey, L; **May Moser, L**. Needs Assessment of a Residency Global Health Pathway. Mar 2023, Aurora, CO. Academy of Medical Educators Education & Innovation Week. Poster.

Amy Nacht:

Smith DC, Anderson JL, Carrington S, **Nacht A**, Nodine PM, Barton AJ. Contemporary Nurse-Midwifery Care in Colorado: A Survey of Certified Nurse-Midwife Practices in Hospital and Community Settings. *Policy Polit Nurs Pract.* 2023 May;24(2):102-109. doi: 10.1177/15271544221147301. Epub 2023 Jan 10. PMID: 36628422.

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Susan Niermeyer

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New approach to knowledge and skills for care of the newborn: Essential Newborn Care, Ending Preventable Maternal Mortality (EPMM) and Every Newborn Action Plan (ENAP) Progress Tracking and Planning Meeting, August 9, 2022, Kigali, Rwanda (hybrid).

What we have learned from HBB to ENC: education in care of babies at Birth (plenary). Laerdal Simulation Users Network (SUN), September 10, 2022 (virtual-Latin American audience >2000 persons). Ahn E, Berkelhamer S

Essential Newborn Care Course orientation for Royal College of Paediatrics and Child Health (UK). October 19, 2022 (virtual).

WHO Essential Newborn Care Course: field testing 2nd edition. 7th Neonatal Resuscitation Research Workshop, May 1-3, 2023, College Park, MD.

Niermeyer S, Danaher R, Kelly P, Cunningham M (course organizers). WHO Essential Newborn Care Course Orientation Workshop for Facilitators, Center for Global Health, University of Colorado Anschutz Medical Campus, May 9-11, 2023, Aurora, CO (hybrid).

Niermeyer S. Essential Newborn Care Course, 2nd edition + Quality Improvement Integrated Kangaroo Mother Care (ENCC and QliKMC go together!). International KMC Day Webinar, University of Calgary (Alberta, Canada), May 15, 2023 (virtual).

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Daniel Olson

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Eric Simoes

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Lisa Umphrey

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Tien Vu

Presentations:

Invited speaker and symposium chair. "Improving resuscitation in the Emergency Department." The 9th Vietnam- USA Pediatric Symposium. Bach Mai Hospital. Hanoi, Vietnam. Nov 2022.

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