

Curriculum Vitae

MARIE ELIZABETH THOMA, Ph.D., M.H.S.

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I. PERSONAL INFORMATION

Academic Appointments at University of Maryland

Aug. 2016 – present **Assistant Professor**, Department of Family Science

Nov. 2016 – present **Faculty Associate**, Maryland Population Research Center

Other Employment

Jan. 2013 – Aug. 2016 **Senior Service Fellow, Statistician**
Reproductive Statistics Branch, Division of Vital Statistics,
National Center for Health Statistics, Centers for Disease Control
and Prevention (Hyattsville, MD)

Dec. 2009 – Jan. 2013 **Postdoctoral Intramural Research Fellow**
Epidemiology Branch, Division of Intramural Population Health
Research, *Eunice Kennedy Shriver* National Institute of Child
Health and Human Development, National Institutes of Health
(Rockville, MD)

Jun. 2005 – Jul. 2009 **Graduate Research Assistant**
Department of Population, Family, and Reproductive Health, Johns
Hopkins Bloomberg School of Public Health, Johns Hopkins
University (Baltimore, MD)

Aug. 2002 – Aug. 2004 **Research Program Coordinator**
Rakai Health Sciences Program, Johns Hopkins Bloomberg School
of Public Health, Johns Hopkins University (Baltimore, MD)

Nov. 2000 – Jul. 2002 **Research Program Coordinator**
Rakai Health Sciences Program, Mailman School of Public Health,
Columbia University (New York, NY)

Educational Background

2013	Postdoc	Epidemiology Branch, Division of Intramural Population Health Research, National Institutes of Health (Rockville, MD)
2009	PhD	Department of Population, Family, and Reproductive Health Concentration: Reproductive and Perinatal Epidemiology, Johns Hopkins Bloomberg School of Public Health (Baltimore, MD)
2009	MHS	Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health (Baltimore, MD)
2000	BA	Department of Anthropology, Nutrition minor, <i>summa cum laude</i> University of Pennsylvania (Philadelphia, PA)
1998		Pacific Island Studies School for International Training (Samoa/Fiji)

II. RESEARCH, SCHOLARLY, AND PROFESSIONAL ACTIVITIES

Refereed Journals

Refereed Journal Articles

1. **Thoma, Marie E.**, Fledderjohann, Jasmine, Cox, Carie, Kantum Adageba, Rudolph. "Biologic and Social Aspects of Human Infertility: A Global Perspective." In Oxford Encyclopedia of Sexual and Reproductive Health. Ed. Andreea Creanga and Amy Tsui. New York: Oxford University Press, forthcoming.
2. MacDorman M, **Thoma ME**, DeClercq E. Improving US maternal mortality reporting by analyzing literal text on death certificates, United States, 2016-2017. PLoS One. 2020 Oct 28;15(10):e0240701.
3. Gleason JL, Shenassa ED, **Thoma ME**. Stressful life events, the incidence of infertility, and the moderating effect of maternal responsiveness: a longitudinal study. J Dev Orig Health Dis. 2020 Aug 3:1-9.
4. Vafai Y, **Thoma ME**, Steinberg JR. The effect of timing of depression onset on first teenage pregnancy experience. J Adolesc Health. 2020 Apr 5. [PMID: 32268997].
5. **Thoma ME**, Brotman RM, Gray RH, Sewankambo NK, Wawer MJ. Risk and protective factors associated with BV chronicity among women in Rakai, Uganda. *Sex Transm Infect*. 2020 Aug;96(5):380-386. [PMID: 31601641].
6. **Thoma ME**, Drew LB, Hirai A, Kim T, Fenelon A, Shenassa E. Black-White Disparities in Preterm Birth: Geographic, Social, and Health Determinants. *Am J Prev Med*. 2019 Nov;57(5):675-686. Epub 2019 Sep 25. [PMID: 31561920].
7. Drew L, Mittal M, **Thoma M**, Harper C, Steinberg J. Multiple Types of Intimate Partner

- Violence and Effectiveness Level of Contraceptive Selection Post-Abortion. *J Women's Health (Larchmt)*. 2019 Nov 14. [PMID: 31721639].
8. **Thoma ME**, Rossen LM, De Silva DA, Warner M, Simon AE, Moskosky S, Ahrens KA. Beyond birth outcomes: Interpregnancy interval and injury-related infant mortality. *Paediatr Perinat Epidemiol*. 2019 Sep 12. [PMID: 31512273]
 9. Loyola Briceno AC, Ahrens KA, **Thoma ME**, Moskosky S. Availability of Services Related to Achieving Pregnancy in U.S. Publicly Funded Family Planning Clinics. *Womens Health Issues*. 2019 Sep 4. [Epub ahead of print - PMID: 31494026].
 10. De Silva DA, **Thoma ME**. The association between interpregnancy interval and severe maternal morbidities using revised national birth certificate data: A probabilistic bias analysis. *Paediatr Perinat Epidemiol*. 2019 Jun 23. [Epub ahead of print] [PMID: 31231858].
 11. Gleason J, **Thoma ME**, Shenassa E. Self-reported infertility and metabolic and cardiovascular dysfunctions among US women. *Fertil Steril*. 2019 Jan;111(1):138-146. [PMID: 30458992].
 12. **Thoma ME**, De Silva DA#, MacDorman MF. Examining Interpregnancy Intervals and Maternal and Infant Health Outcomes using U.S. Vital Records: Important Considerations for Analysis and Interpretation. *Paediatr Perinat Epidemiol*. 2018 Oct 15.
 13. Hutcheon J, Moskosky S, Ananth C, Basso O, Briss P, Ferre C, Frederiksen B, Harper S, Hernandez-Diaz S, Hirai A, Kirby R, Klebanoff M, Lindberg L, Mumford S, Nelson H, Platt R, Rossen L, Stuebe A, **Thoma M**, Vladutiu C, Ahrens K. Good practices for the design, analysis, and interpretation of observational studies on birth spacing and perinatal health outcomes. *Paediatr Perinat Epidemiol*. 2018 Oct 12. [Epub ahead of print] [PMID: 30311958].
 14. Ahrens K, Hutcheon J, Ananth C, Basso O, Briss P, Ferre C, Frederiksen B, Harper S, Hernandez-Diaz S, Hirai A, Kirby R, Klebanoff M, Lindberg L, Mumford S, Nelson H, Platt R, Rossen L, Stuebe A, **Thoma M**, Vladutiu C, Moskosky S. Report of the Office of Population Affairs' expert work group meeting on short birth spacing and adverse pregnancy outcomes: Methodological quality of existing studies and future directions for research. *Paediatr Perinat Epidemiol*. 2018 Oct 9. [Epub ahead of print] [PMID: 30300948].
 15. Ahrens KA, **Thoma M**, Copen C, Frederiksen B, Decker E, Moskosky S. Unintended pregnancy and interpregnancy interval by maternal age, National Survey of Family Growth. *Contraception*. 2018 Jul;98(1):52-55. [PMID: 29501647].
 16. Kasman A, **Thoma ME**, McLain AC, Eisenberg ML. Association between use of marijuana and infertility in men and women: findings from the National Survey of Family Growth. *Fertil Steril*. 2018 May;109(5):866-871. [PMID: 29555335].

17. MacDorman MF, Declercq E, **Thoma ME**. Trends in Texas maternal mortality by maternal age, race/ethnicity, and cause of death, 2006-2015. *Birth*. 2018 Jun;45(2):169-177. [PMID: 29314209].
18. Ahrens KA, Rossen LM, **Thoma ME**, Warner M, Simon AE. Birth Order and Injury-Related Infant Mortality in the U.S. *Am J Prev Med*. 2017 Oct;53(4):412-420. [PMID: 28666774].
19. MacDorman MF, Declercq E, **Thoma ME**. Trends in Maternal Mortality by Sociodemographic Characteristics and Cause of Death in 27 States and the District of Columbia. *Obstet Gynecol*. 2017 May;129(5):811-818. [PMID: 28383383].
20. Polis C, Cox C, Tunculp O, McLain A, **Thoma M***. Estimating infertility prevalence in low-to-middle-income countries: an application of a current duration approach to Demographic and Health Survey data. *Hum Reprod*. 2017 May 1;32(5):1064-1074. [PMID: 28204493].
Open Access funded by the World Health Organization.
21. Ahrens K, **Thoma ME**, Rossen LM, Warner M, Simon A. Plurality of Birth and Infant Mortality Due to External Causes in the United States, 2000-2010. *Am J Epidemiol*. 2017 Mar 1;185(5):335-344. [PMID: 28180240].
22. Smarr M, Sapra K, Gemmill A, Kahn L, Wise L, Lynch C, Factor-Litvak P, Mumford S, Skakkebaek N, Slama R, Lobdell D, Stanford J, Jensen T, Boyle EH, Eisenberg M, Turek P, Sundaram R, **Thoma ME**, Buck Louis G. Is human fecundity changing? A discussion of research and data gaps precluding us from having an answer. *Hum Reprod*. 2017 Mar 1;32(3): 499-504. [PMID: 2813775].
23. Wagman JA, Charvat B, **Thoma ME**, Ndyanabo A, Nalugoda F, Ssekasanvu J, Kigozi G, Serwadda D, Kagaayi K, Wawer MJ, Gray RH. Intimate Partner Violence as a Predictor of Marital Disruption in Rural Rakai, Uganda: A Longitudinal Study. *Int J Public Health*. 2016 Nov;61(8):961-970. [PMID: 27624624].
24. Wagman J, Gray RH, Campbell J, **Thoma M**, Ndyanabo A, Ssekasanvu J, Nalugoda F, Kagaayi J, Nakigozi G, Serwadda D, Brahmbhatt H. Effectiveness of an integrated intimate partner violence and HIV prevention intervention in Rakai, Uganda: analysis of an intervention in an existing cluster randomised cohort. *Lancet Glob Health*. 2015 Jan;3(1):e23-33. [PMID:25539966]
25. McLain AC, Sundaram R, **Thoma ME**, Buck Louis GM. Semi-parametric grouped backward recurrence Cox model for the analysis of current duration data with preferential reporting. *Stat Med*. 2014 Oct 15;33(23):3961-72. (Featured Article). [PMID:24862959]
26. Hunsberger S, Albert P, **Thoma ME**. Approaches for retrospective sampling for longitudinal transition regression models. *Statistics and its Interface*. 2014; 7(1): 75-85.

27. Cheon K, **Thoma ME**, Kong X, Albert PS. A mixture of transition models for heterogeneous longitudinal ordinal data: with applications to longitudinal bacterial vaginosis data. *Stat Med*, 2014 Mar 27. [Epub ahead of print] [PMID: 24676689]
28. Buck Louis GM., Hediger ML, Bell EM, Kus CA, Sundaram R, McLain A, Yeung E, Hills EA, **Thoma ME**, Druschell CM. Methodology for Establishing a Population-Based Birth Cohort Focusing on Couple Fertility and Children's Health, the Upstate KIDS Study. *Paediatr Perinat Epidemiol*. 2014 May; 28(3): 191-202. [PMID: 24665916]
29. Louis JF#, **Thoma ME**, McLain AC, King RB, Trumble AC, Sundaram R, Buck Louis GM. The prevalence of couple infertility in the United States from a male perspective: evidence from a nationally-representative sample, *Andrology*, 2013 Sep; 1(5): 741-8. [PMID: 23843214].
30. **Thoma ME**, Louis JF, McLain AC, King RB, Trumble AC, Sundaram R, Buck Louis GM. Prevalence of infertility in the United States as estimated by the current duration approach and a traditional constructed approach. *Fertil Steril*. 2013 Apr;99(5): 1324-1331. [PMID: 23290741].
31. **Thoma ME**, Hediger ML, Sundaram R, Chen Z, Peterson CM, Croughan MS, Buck Louis GM, for the ENDO Study Working Group. Comparing Apples and Pears: Women's Perceptions of Their Body Size and Shape. *J Womens Health (Larchmt)*. 2012 Oct;21(10):1074-81. [PMID: 22873752]
32. Sanders KL#, **Thoma ME**, Yu K, Albert PS. An evaluation of the natural history of bacterial vaginosis using transition models. *Sex Transm Dis*. 2011 Dec;38(12):1131-6. [PMID: 22082724]
33. **Thoma ME**, Gray RH, Kiwanuka N, Wang MC, Sewankambo N, Wawer M. The natural history of bacterial vaginosis (BV) diagnosed by Gram stain among women in Rakai, Uganda. *Sex Transm Dis*. 2011 Nov;38(11):1040-1045. [PMID: 21992981]
34. **Thoma ME**, Klebanoff M, Rovner A, Nansel T, Neggers Y, Andrews W, Schwebke J. Bacterial vaginosis (BV) is associated with dietary indices. *J Nutr*. 2011, Sep;141(9):1698-704. [PMID: 21734062]
35. **Thoma ME**, Gray RH, Kiwanuka N, Wang MC, Aluma S, Sewankambo N, Wawer M. The Short-term Variability of Bacterial Vaginosis (BV) Diagnosed by Nugent Gram Stain Criteria among Sexually Active Women in Rakai, Uganda. *Sex Transm Dis*. 2011 Feb;38(2):111-6. [PMID: 20921931]
36. **Thoma ME**, Gray RH, Kiwanuka N, Wang MC, Aluma S, Sewankambo N, Wawer M. Longitudinal changes in vaginal microbiota composition assessed by Gram-stain among never sexually active pre- and postmenarcheal adolescents in Rakai, Uganda. *J Pediatr Adolesc Gynecol*. 2011 Feb;24(1):42-7. [PMID: 20709584]

Invited Reviews/Commentary of Journal Articles

1. MacDorman MF, Declercq E, **Thoma ME**. Making Vital Statistics Count: Preventing U.S. Maternal Deaths Requires Better Data. *Obstet Gynecol*. 2018, May;131(5):759-761. [PMID: 29630026].
2. **Thoma ME**. Measuring Infertility: Searching for Consensus. *J Womens Health (Larchmt)*. 2015 Jul; 24(7):541-3. [PMID: 26172995].

Perspectives, Opinions, and Letters

1. Creanga AA, **Thoma ME**, MacDorman M. Value and disvalue of the pregnancy checkbox on death certificates in the United States -- Impact on newly released 2018 maternal mortality data. *Am J Obst Gyn*. 2020 Jun.
2. McLain AC, Sundaram R, **Thoma ME**, Buck Louis GM. Cautionary note on “Semi-parametric grouped backward recurrence Cox model for the analysis of current duration data with preferential reporting.” Cornell University Library, 2017. [arXiv:1801.00775](https://arxiv.org/abs/1801.00775) [stat.AP]
3. Ahrens KA, **Thoma ME**, Rossen LM. Interpregnancy Interval and Adverse Pregnancy Outcomes: An Analysis of Successive Pregnancies. *Obstet Gynecol*. 2017Aug;130(2):464.
4. **Thoma M**, Gray RH, Kiwanuka N, Serwadda D, Wawer M. Unsafe injections and transmission of HIV-1 in sub-Saharan Africa. *Lancet*. 2004 May 15; 363(9421):1650-1. [PMID: 15145649]
5. Gray RH, **Thoma M**, Kiwanuka N, Serwadda D, Wawer M. HIV transmission through health care in sub-Saharan Africa. *Lancet*. 2004 Nov.6-12; 364(9446):1666.

Conferences and Invited Talks

Invited Talks

Breaking the Silence on Infertility: Approaches for Measuring Infertility and Infertility Service Provision. Maryland Population Research Center, University of Maryland. Invited speaker. March 31, 2020. College Park, MD. [Postponed due to COVID-19]

Advantages and Opportunities Using the Maryland Federal Statistical Research Data Center. Maryland Population Research Center, University of Maryland. Invited Panel member. November 15, 2019. College Park, MD.

The Life Course Perspective. Pew Charitable Trust Calling All Sectors Convening Meeting. Invited Speaker. October 16th and 17th, 2019. Washington D.C.

Breaking the Silence on Infertility: Challenges and Opportunities. Johns Hopkins Bloomberg School of Public Health, Department of Population, Family, and Reproductive Health – *Amazing Alums* series. Invited speaker. November 13, 2019. Baltimore, MD.

Breaking the Silence around Infertility – Co-Creation Conference, Share Net International. Invited workshop participant. October 8-10, 2019. Amsterdam, Netherlands.

Maternal Mortality in the United States. Future Research Directions. *Eunice Kennedy Shriver* National Institute of Child Health and Human Development scientific workshop. Invited workshop participant. May 2-3, 2019. Rockville, MD.

Why is the Maternal Mortality Rate so High in DC and How Do We Address It? The Lab @ DC. Washington D.C. May 31, 2018.

Expert Workgroup Meeting on Birth Spacing and Adverse Pregnancy Outcomes. Measurement Issues with U.S. Vital Records Data – Assessment of Interpregnancy Intervals and selected sociodemographic, maternal, and perinatal outcomes. Office of Population Affairs. Rockville, MD. September 14-15, 2017.

Estimating the prevalence of infertility in low-to-middle-income countries. The Guttmacher Institute, New York, NY. May 11th, 2017.

Infertility in the United States: More than Just Pregnancy or Its Absence. Department of Family Science, University of Maryland, College Park. College Park, MD. March 23, 2016.

Infertility Prevalence in the United States: An Application of a Current Duration Approach. Department of Sociology and Anthropology, University of Maryland, Baltimore County. Catonsville, MD. December 14, 2015.

Infertility Prevalence in the United States: An Application of a Current Duration Approach. Office of Population Affairs, Department of Health and Human Services. Rockville, MD. December 9, 2015.

Population-based Measurement of Fecundity: Considerations for Data Collection and Surveillance. Is Human Fecundity Changing? (Workshop and Webinar) *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, NIH. Bethesda, MD. Sept. 10-11, 2015.

The estimation of infertility prevalence in the United States – application of a current duration approach to a nationally representative sample. Intramural Research Program on Reproductive and Adult Endocrinology, *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, NIH. Bethesda, MD. Feb. 7, 2014.

Refereed Presentations

Thoma M, Rossen L, Nguyen Q. Novel population-based approaches for examining health disparities. Oral presentation at the 2020 American College of Epidemiology Annual Meeting, September 2020, College Park, MD. (virtual conference)

Thoma M, Ahmed N, Gleason J, Arrey A. Conducting Public Health Surveillance and Communicating Data in Maternal and Child Health. Association of Schools and Programs in Public Health: Undergraduate Summit. Crystal City, VA. March 2020. [*Canceled due to COVID-19*]

Mann D, **Thoma M**, Moser-Jones M, Renfrew M. Infant Mortality and Race in Rural MD: Data, Lessons Learned, and Opportunities. Panel presentation at the 2019 Maryland Rural Health Conference. Oxon Hill, MD. October 2019.

Drew LB, Grantz K, **Thoma ME**. Association between macrosomia and neonatal morbidities in the United States. Oral presentation at the American Public Health Association 2018 Annual Meeting in San Diego, CA. November 2018.

Gleason J, **Thoma ME**, Shenassa E. Self-reported infertility and metabolic and cardiovascular dysfunctions among US women. Oral presentation to the 2018 American Public Health Association conference, November 2018, San Diego, CA.

Thoma ME, Drew LB, Kim T, Hirai A, Shenassa E, Fenelon A. Estimating the contribution of social and health determinants to racial disparities in preterm birth in the United States. Oral presentation at the 2018 Population Association of America Annual Meeting (Disparities in Birth Outcomes in the United States), Denver, CO.

Gleason J, **Thoma ME**, Shenassa E. Self-reported infertility and metabolic and cardiovascular dysfunctions among US women. Oral presentation at the 2018 University of Maryland Graduate Research Appreciation Day Conference in College Park, MD. April 2018.

G. Ryan, **M. Thoma**, B. Van Voorhis, J. E. Stern, C. H. Syrop, M. Mengeling, A. O'Shea, K. Stewart, J. Torner, A. Sadler. Reproductive Health Risk Due to Sexual and Combat-Related Trauma in U.S. Veterans. Oral presentation at the 2017 American Society for Reproductive Medicine Scientific Congress and Expo, San Antonio, TX, Oct. 28-Nov 1, 2017. *Awarded prize paper at 2017 ASRM conference.*

Drew LB, Mittal M, **Thoma ME**, Steinberg JR. Multiple types of intimate partner violence and effectiveness level of contraceptive selection post-abortion. Oral presentation at the 2016 National Council on Family Relations Annual Conference, November 2016, Minneapolis, MN.

Thoma ME, Almond S. Elearning to Improve Birth Data Quality – Coming soon to a hospital near you. Oral presentation at the National Efforts to Improve Health with Vital Statistics Plenary of the 2016 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2016, Kansas City, MO.

Thoma ME, Almond S. Birth Data Quality Elearning System Demonstration. Oral presentation at the 2016 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2016, Kansas City, MO.

Cox C, Polis C, Tunculp O, McLain A, **Thoma M**. Estimating the prevalence of infertility in Nigeria: application of a current duration methodological approach to Demographic and Health Survey data. Oral presentation at the 2016 Population Association of America conference, March/April 2016, Washington, D.C.

Martin J, Lee E, Curtin S, **Thoma M**, Almond, S. Assessing and improving the quality of the new birth data – the good, the bad, and the under-reported. Oral presentation at the 2015 National Conference on Health Statistics, August 2015, Bethesda, MD.

Martin J, Backus K, Reed P, Horon I, Ashliman M, **Thoma M** on behalf of the Birth Data Quality Workgroup. Collaborating to Bridge the Birth Data Quality Gap. Oral presentation at the Data Quality Plenary of the 2015 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2015, Pittsburgh, PA.

Curtin S, Granlund H, **Thoma M**. New Data on Source of Payment for Delivery: Results and Strategies for Improvement. Statistics Plenary. Oral presentation at the 2015 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2015, Pittsburgh, PA.

Wagman J, Gray R, Campbell, **Thoma M**, Ndyababo A, Ssekasanvu J, Nalugoda F, Nakigozi G, Kagaayi J, Serwadda D, Brahmbhatt H. Impact of an intimate partner violence and HIV prevention intervention: A cluster randomized trial in Rakai, Uganda. Oral presentation at the 7th Biennial Conference on Health and Domestic Violence, March 2015, Washington D.C.

Wagman J, Gray R, Campbell J, Ndyababo A, Nalugoda F, Kagaayi J, Nakigozi G, Serwadda D, Brahmbhatt H, **Thoma M**, Rakai Health Sciences Program Research Team. A cluster randomized trial of the impact of an intimate partner violence and HIV prevention intervention on emotional, physical, and sexual abuse, sexual risk, and HIV incidence in Rakai, Uganda. Oral presentation at the 20th International AIDS Conference, July 2014, Melbourne, Australia.

Curtin SC, **Thoma ME**, Uddin S, Martin JM. Preterm Birth and Low Birth Weight by Source of Payment for the Delivery: New Data from the Birth Certificate. Oral presentation at the Population Association of America 2014 Annual Meeting. May 2014, Boston, MA.

McLain AC, Sundaram R, **Thoma ME**, Buck Louis GM. Semi-parametric grouped backward recurrence Cox model for the analysis of current duration data with preferential reporting. Oral presentation (Methods for assessing environmental factors on reproductive outcomes) at the 2013 Joint Statistical Meetings, August 2013, Montreal, Canada.

McLain AC, Sundaram R, **Thoma ME**, Buck Louis GM. Semi-parametric grouped backward recurrence Cox model for the analysis of current duration data with preferential reporting. Oral presentation at the 2nd Workshop on Biostatistics and Bioinformatics, Georgia State University, Atlanta, GA. May 12, 2013.

Thoma ME, Louis JF, McLain AC, King RB, Trumble AC, Sundaram R, Buck Louis GM. The prevalence of infertility as estimated by a current duration approach and a traditional construct approach. Poster presentation at the 2012 National Institutes of Health Research Festival, October 2012, Bethesda, MD.

Thoma ME, Louis JF, McLain AC, King RB, Trumble AC, Sundaram R, Buck Louis GM. A comparison of measurement approaches for estimating the prevalence of infertility in the

National Survey of Family Growth. Oral presentation (Plenary session) at the 2012 Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, June 2012, Minneapolis, MN.

Louis JF, **Thoma M**, Trumble A. Prevalence of couple infertility in the US based on male reporting: evidence from a nationally-representative survey. Poster presentation at the NIH Spring Research Festival, April 2012, Bethesda, MD.

Cheon K, **Thoma ME**, Kong X, Albert PS. A mixture of Markov models for heterogeneous longitudinal ordinal data: with applications to analyzing longitudinal bacterial vaginosis data. Oral presentation at the Eastern North American Region of the International Biometric Society Spring Meeting, April 2012, Washington D.C.

Thoma ME, Hediger ML, Sundaram R, Chen Z, Peterson CM, Croughan MS, Buck Louis GM, for the ENDO Study Working Group. Comparing “apples and pears”: How well do women perceive their body size and shape? Oral presentation at the American Society for Reproductive Medicine 67th Annual Meeting, October 2011, Orlando, FL.

Gray R, Wawer M, **Thoma M**, Serwadda D, Nalugoda F, Li X, Kigozi G, Kiwanuka N, Laeyendecker, Quinn T. Male Circumcision and the risks of female HIV and sexually transmitted infections acquisition in Rakai, Uganda. Oral presentation at the 13th Conference on Retroviral and Opportunistic Infections, February 2006. Denver, CO.

Refereed Posters

Drew LB, Stoebenau K, Madhavan S, Mittal M, Maring EF, Thoma ME. *The relationship between female genital cutting and recent sexual activity in Nigeria*. Poster presentation at the 2020 Interdisciplinary Association for Population Health Science Conference. September, 2020. (virtual conference)

De Silva DA, **Thoma ME**. Maternal food insecurity and childhood obesity: a sex-specific response? Poster presentation at the 2020 American College of Epidemiology (ACE) Annual Meeting, September 2020, College Park, MD (virtual conference). Abstract published in *Ann Epidemiol* 2020.

De Silva DA, **Thoma ME**. Prenatal food insecurity and initiation and exclusive duration of breastfeeding. Poster presentation at the 2020 American College of Epidemiology (ACE) Annual Meeting, September 2020, College Park, MD (virtual conference). Abstract published in *Ann Epidemiol* 2020.

Shenassa ED, Gleason J, **Thoma M**. Endometriosis and Uterine Fibroids, harbingers of premature aging? Poster presentation at the 2020 American College of Epidemiology, September, 2020, College Park, MD. (virtual conference)

Drew LB, **Thoma ME**. Attitudes toward female genital cutting in Nigeria: An exploration of national-level trends since 2003 and the contributions of age, period, and cohort effects. Poster presentation at the 2020 Population Association of America Meeting. (Cancelled due to COVID-19).

Thoma ME, DeSilva DA, Kim J, Boudreaux M, Jo Y. Overall and racial/ethnic trends in breastfeeding initiation by prenatal WIC participation. Poster presentation at the 2019 Society for Pediatric and Perinatal Epidemiologic Research conference, Minneapolis, MN, June 2019.

Thoma ME, Ahmed N, Gleason J, Ayuk-Arrey A. Conducting Public Health Surveillance and Communicating Data in Maternal and Child Health. Accepted at the 25th Annual Innovation in Teaching and Learning Conference, College Park, MD. May 15, 2019.

Drew LB#, Grantz K, **Thoma ME**. Macrosomia and neonatal morbidities in the United States. Presentation at the Delta Omega Honor Society Poster Session at the American Public Health Association 2018 Annual Meeting in San Diego, CA. November 2018. *One of 29 student posters nominated and selected by the Delta Omega Honor Society from national competition.*

Lama Y, **Thoma ME**. Short Interpregnancy Interval and Delayed Initiation of Prenatal Care: Opportunities to Improve Interconception Health Promotion. Poster presentation at the 2018 American Public Health Association Conference. San Diego, CA. November 2018.

De Silva DA, **Thoma ME**. The association between interpregnancy interval and maternal morbidities using revised national birth certificate data. Poster presentation at the Interdisciplinary Association for Population Health Science (IAPHS) Annual Meeting, October 2018, Washington, DC.

Thoma ME, Rossen LM, Ahrens KA, De Silva DA#, Warner M, Simon AE, Moskosky S. Interpregnancy interval and injury-related infant mortality in the United States. Poster presentation at the Society for Pediatric and Perinatal Epidemiologic Research conference, June 2018, Baltimore, MD.

Rossen L, **Thoma ME**, Ahrens K, De Silva D, Hirai A. Regression approaches for analyzing U.S. national period linked birth-infant death data. Poster presentation to the 2018 Society for Pediatric and Perinatal Epidemiologic Research and Society for Epidemiologic Research conferences, June 2018, Baltimore, MD.

Lama Y, **Thoma ME**. Short Interpregnancy Interval and Delayed Initiation of Prenatal Care: Opportunities to Improve Interconception Health Promotion. Poster presentation at the 2018 University of Maryland Public Health Research Day. College Park, MD. April 2018.

Drew LB, **Thoma ME**, Grantz K. Macrosomia and neonatal morbidities in the United States. Poster presentation at the 2018 University of Maryland Public Health Research Day. College Park, MD. April 2018. *Winner: First Place Student Research Poster Competition Award, Delta Omega Honor Society in Public Health-Gamma Zeta Chapter. Nomination: National 2018 Delta Omega Honor Society Poster Session at the 2018 APHA Annual Meeting.*

Drew LB, **Thoma ME**, Grantz K. Macrosomia and neonatal morbidities in the United States. Poster presentation at the 2018 University of Maryland Graduate Research Appreciation Day Conference in College Park, MD. April 2018.

Thoma ME, Drew LB. The association between macrosomia and maternal delivery complications among full term, singleton, first births in the United States. Poster presentation to the 2017 American Public Health Association conference, November 2017, Atlanta, GA.

Vafai Y, Lewin AB, Roy K, **Thoma ME**. Paternity Acknowledgement on Birth Certificates and Maternal Prenatal Health Behaviors in the United States. Poster presentation to the 2017 American Public Health Association conference, November 2017, Atlanta, GA.

Swartzendruber A, Steiner RJ, **Thoma ME**. State-level school-based condom instruction and STI rates. Poster presentation at the 2017 National Sexual Health Conference, July 2017, Denver, CO.

Thoma ME, Fenelon A, Ahrens K. The contribution of interpregnancy intervals to disparities in preterm birth between non-Hispanic black and non-Hispanic white women, 48 states and the District of Columbia. Poster presentation at the 2017 Society for Pediatric and Perinatal Epidemiology conference, June 2017, Seattle, WA.

Ahrens K, **Thoma M**, Copen C, Frederiksen B, Decker E, Gavin L, Moskosky S. Short interpregnancy interval and pregnancy intention by maternal age, National Survey of Family Growth. Poster presentation at the 2017 Society for Pediatric and Perinatal Epidemiology conference, June 2017, Seattle, WA.

Vafai Y, Lewin AB, Roy K, **Thoma ME**. Paternity Acknowledgement on Birth Certificates and Maternal Prenatal Health Behaviors in the United States. Poster presentation at Social Justice Day at University of Maryland, College Park, MD, April 18, 2017.

Biswas R, **Thoma M**, Kong X. Functional data analysis in characterizing bacterial vaginosis patterns and identification of pattern-specific risk factors. Poster presentation at the Eastern Northern American Region International Biometric Society 2017 Spring Meeting, March 2017, Washington, D.C.

Drew LB, Mittal M, **Thoma ME**, Steinberg JR. Multiple types of intimate partner violence and effectiveness level of contraceptive selection post-abortion. Poster presentation at the American Public Health Association 2016 Annual Meeting, October 2016, Denver, CO.

Ahrens KA, **Thoma ME**, Rossen LM, Warner M, Simon AE. Plurality and infant mortality due to external causes in the US, 2000-2010. Poster presentation at the 2016 Epidemiology Congress of the Americas, June 2016, Miami, FL.

Ahrens KA, **Thoma ME**, Rossen LM, Warner M, Simon AE. Birth order and infant mortality due to external causes in the US, 2000-2010. Poster presentation at the 2016 Society for Pediatric and Perinatal Epidemiology conference, June 2016, Miami, FL.

Thoma M, Kirmeyer S. Extremely short and short interpregnancy intervals: Differences by maternal demographic characteristics. Poster presentation at the 2015 March of Dimes Prematurity Prevention Conference, November 2015, Arlington, VA.

Thoma M, Kirmeyer S. Short and extremely short interpregnancy intervals: Differences by maternal demographic characteristics. Poster presentation at the 2015 National Conference on Health Statistics, August 2015, Bethesda, MD.

Copen CE, **Thoma ME**, Kirmeyer SE. It's about Time: Data on Interpregnancy Interval using the National Survey of Family Growth and the National Vital Statistics System. Poster presentation at the Population Association of America 2014 Annual Meeting. May 2014, Boston, MA.

Buck Louis GM., Hediger ML, Bell EM, Kus CA, Sundaram R, McLain A, Yeung E, Hills EA, **Thoma ME**, Druschell CM. Methodology for Establishing a Population-Based Birth Cohort Focusing on Couple Fertility and Children's Health, the Upstate KIDS Study. Poster presentation at the American Society for Reproductive Medicine 69th Annual Meeting, October 2013, Boston, MA. (*withdrawn due to government closure*)

Backus K, Chase M, Straight AM, Reed P, Tretter E, Crawford G, Moyer C, Pagnano S, Justice D, **Thoma M**, Ahuja S. Survey of Birth Data Quality Reporting. Poster presentation at the 2013 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2013, Phoenix, AZ.

Thoma ME, Klebanoff MA, Nansel TR, Hediger ML, Neggers Y. The association between periodontal disease (PD) and dietary fats and cholesterol. Poster presentation at the 2011 Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, June 2011, Montreal, Canada.

Thoma M, Gray RH, Kiwanuka N, Wang MC, Aluma S, Sewankambo N, Wawer M. The Short-term Variability of Bacterial Vaginosis (BV) among Sexually Active Women in Rakai, Uganda. Poster presentation at the 2010 Meeting of the Society for Epidemiologic Research, June 2010, Seattle, WA.

Thoma M, Gray RH, Kiwanuka N, Wang MC, Aluma S, Sewankambo N, Wawer M. Don't throw BV out with the bathwater: risk and protective factors for bacterial vaginosis (BV) in Rakai, Uganda. Poster presentation at the 23rd Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, June 2010, Seattle, WA.

Thoma M, Gray R, Kiwanuka N, Serwadda D, Nalugoda F, Kigozi G, Wang M, Aluma S, Ndyanabo A, Wawer MJ. Stage of Puberty and Vaginal Flora Development. Poster presentation at the 18th International Society for Sexually Transmitted Disease Research, July 2009. London, England.

Thoma M, Gray R. Male Circumcision and Genital Ulcer Disease: A meta-analysis. Poster presentation at the 17th International Society for Sexually Transmitted Disease Research, July 2007. Seattle, WA.

Workshops

Thoma M, Gregory E, Mathews T. Getting the Data Right – Best Practices for the National Vital Statistics Birth, Fetal Death, and Linked Birth and Infant Death Data Sets. National Conference on Health Statistics Learning Institute, August 2015, Bethesda, MD.

Professional and Extension Publications

Technical Reports

1. Martin JA, Osterman MJK, **Thoma ME**. Declines in Triplet and High-order Multiple Births in the United States, 1998-2014. *NCHS Data Brief*. 2016 Apr;243:1-8. [PMID: 27139731]
2. **Thoma ME**, Copen CE, Kirmeyer SE. Short Interpregnancy Intervals in 2014: Differences by Maternal Demographic Characteristics. *NCHS Data Brief*. 2016 Apr;240:1-8. [PMID: 27111053]
3. Mathews TJ, MacDorman MF, **Thoma ME**. Infant Mortality Statistics from the 2013 Period Linked Birth/Infant Death Data Set. *Natl Vital Stat Rep*. 2015. Aug 6;64(9):1-30.
4. Copen CE, **Thoma ME**, Kirmeyer SE. Interpregnancy Intervals in the United States: A Comparison of Data from the Birth Certificate and the National Survey of Family Growth. *Natl Vital Stat Rep*. 2015 Apr 16;64(3):1-10. [PMID: 26114767]
5. **Thoma ME**, Boulet SL, Martin JA, Kissin DM. Births Resulting from Assisted Reproductive Technology: Comparing Birth Certificate and National ART Surveillance System Data, 2011. *Natl Vital Stat Rep*. 2014 Dec;63(8):1-12. [PMID: 25493705]
6. The Birth Data Quality Workgroup. Efforts to Improve Birth Data Quality: Results from a Survey of Data Quality Practices among US Vital Records Jurisdictions. National Association for Public Health Statistics and Information Systems, May 2014.
7. Report of a Consultative Meeting on Survey-based Indicators for Monitoring and Evaluation of Newborn Health Programs April 29-30, 2008. Save the Children, Saving Newborn Lives. [prepared initial draft]

Technical Products

1. Centers for Disease Control and Prevention (CDC). Applying Best Practices for Reporting Medical and Health Information on Birth Certificates. [Internet]. Hyattsville, MD: National Center for Health Statistics (NCHS), CDC; 2016. Available from: www.cdc.gov/nchs/training/BirthCertificateElearning.
Role: Co-chair of national workgroup that developed and implemented nationally-standardized e-learning training to improve quality of birth certificate data collection – available to all states with CME, CNE, and CE accreditation. Facilitated start of evaluation plan.

Sponsored Research and Programs – Office of Research Administration

Grants and Contracts

Awarded

7/1/20-6/30/21	HRSA-20-057 R40, Maternal Child Health Bureau, Health Resources and Services Administration, U.S. Dept. of Health and Human Services
\$99,912	Examining Pregnancy-associated Drug Overdose Mortality Using Enhanced National Death Certificate Data Role: Principal Investigator 1 st submission: Funding Score (100 out of 100)
10/18/18-5/31/19 \$1,879	Association for Teachers in Maternal and Child Health, Innovative Teaching Award Conducting Public Health Surveillance and Communicating Data in Maternal and Child Health Role: Team Leader/Principal Investigator
2/15/19-1/31/20 \$100,975	Maryland Department of Health Interagency Agreement. (PI: Quinn, SC) Maryland Infant Mortality Study Role: Co-Investigator (Infant mortality program inventory component)
1/19/19-12/31/20 \$147,498	R03HD097287, <i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development, National Institutes of Health (PI: McLain, A) Estimating population level infertility and fertility treatment rates Role: Co-Investigator (subcontract) - Epidemiologist 1 st submission: Impact score (30), percentile (15%)
9/20/18-8/31/20 \$239,645	R21HD095236, <i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development, National Institutes of Health. (PI:MacDorman,M) Methodological Issues in Maternal Mortality Research. Role: Co-Investigator – Epidemiologist, data analyst 1 st submission: Impact score (35), Percentile (25%) 2 nd submission: Impact score (10), Percentile (2%)
9/1/18 – 8/31/20 \$30,000	U.S. Department of Agriculture Cooperative Agreement (#58-4000-8-0034). Examining trends in gestational weight gain, birthweight, and initiation of breastfeeding by WIC use during pregnancy using birth certificate data. Role: Principal Investigator
7/15/17-1/31/18 \$17,498	Atlas Research, LLC Subcontract. HHS Office of Population Affairs (OPA) Title X, HHSP-233201450040A. The Association Between Interpregnancy Interval (IPI) and Risk of Infant Mortality using National Vital Statistics Files from the U.S. Role: Principal Investigator
Summer 2017	Research and Scholarship Award, University of Maryland

\$9,000 **Estimating the contribution of social and health determinants to racial disparities in preterm birth in the United States**
 Role: Principal Investigator

4/08 – 3/09 R36PS001104-01, Centers for Disease Control and Prevention
 \$33,854 **The Natural History of Bacterial Vaginosis and Modes of Transmission, Rakai, Uganda**
 Role: Principal Investigator

Other Funded Research not administered by the Office of Research Administration

Consultant on sponsored research

7/6/20 – 2/28/21 World Health Organization, Department of Sexual and Reproductive Health and Research (SRH), Contraception and Fertility Care (CFC)
 \$42,750 **Potential approaches for estimating infertility prevalence at the global, regional and country-levels**
 Role: Consultant

6/1/20 – 12/31/20 Share-Net International, **Breaking the Silence on Infertility Policy Brief**
 €10,000 Role: Team member/consultant

7/14 – 1/20 IIR 13-294-2 U.S. Department of Veterans Affairs, Health Services Research and Development Service. (PI: Ryan, G).
 \$1,003,000 **Impact of Sexual Assault and Combat-Related Trauma on Fertility in Veterans**
 Role: Reproductive Epidemiologist (Consultant)

Intramural-sponsored research activities (National Institutes of Health)

5/11 - 1/13 *Eunice Kennedy Shriver* National Institute of Child Health Human Development. **Approaches for assessing trends in infertility.**
 Role: Principal Investigator

12/10 – 1/13 *Eunice Kennedy Shriver* National Institute of Child Health and Human Development. **New York State Infant Development Screening Program (Upstate KIDS).**
 Role: Postdoctoral Researcher

12/10 – 1/13 *Eunice Kennedy Shriver* National Institute of Child Health and Human Development. **Endometriosis Natural History, Diagnosis, and Outcomes (ENDO)**
 Role: Postdoctoral Researcher

5/10 – 1/13 *Eunice Kennedy Shriver* National Institute of Child Health and Human Development
Microbial Diversity of Vaginal, Stool, and Urethral Samples in Infants
 Role: Principal Investigator

12/09 – 1/12 *Eunice Kennedy Shriver* National Institute of Child Health and Human Development. **The Effect of Diet on Bacterial Vaginosis and Periodontal Disease**
Role: Principal Investigator

Research Fellowships, Prizes, and Awards (year, award, source)

- 2019 Graduate Faculty Mentoring Award nomination.
- 2019 Honorable mention, Infertility Care in Low-and-Middle-Income Countries. Untold Story of 2019 Contest. 2019 Annual Consortium of Universities for Global Health (CUGH) Global Health Conference. <https://www.cugh2019.org/untold-stories>
- 2019 Honoree, Inaugural Maryland Research Excellence Celebration, University of Maryland
- 2016 *Special Act award*, Division of Vital Statistics, National Center for Health Statistics, Centers for Disease Control and Prevention – For contribution to leading and development of eLearning training to improve the quality of birth certificate data.
- 2009-2013 *Intramural Research Training Award*, National Institute of Child Health and Human Development, National Institutes of Health (Mentors: Drs. Mark Klebanoff, Mary Hediger, Germaine Buck Louis)
- 2009-2010 *Caroline Cochran Scholarship Fund*, Johns Hopkins Bloomberg School of Public Health
- 2008-2009 *The R. Bradley Sack Family Scholarship Award for Infectious Diseases in the Developing World*, Johns Hopkins Bloomberg School of Public Health
- 2008-2009 *Endowed Fellowship in Family Planning and Reproductive Health*, Johns Hopkins Bloomberg School of Public Health
- 2006-2007 *Endowed Fellowship in Family Planning and Reproductive Health*, Johns Hopkins Bloomberg School of Public Health
- 2004 – 2007 *Predoctoral Fellowship, Johns Hopkins Training Program in STIs*
National Institute of Allergy and Infectious Diseases (PI: Zenilman, J)
Training Grant #T32A1050056