



## Elliott Main

Clinical Professor, Obstetrics & Gynecology - Maternal Fetal Medicine

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### Bio

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Obstetrics & Gynecology - Maternal Fetal Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

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### Publications

#### PUBLICATIONS

- **Development and Application of an Algorithm to Identify the Primary Underlying Condition for Cases of Severe Maternal Morbidity.** *Obstetrics and gynecology*  
Main, E. K., McCormick, E. K., Tomlinson, M. W., Ma, C., Carpenter, A. M., Leonard, S. A., Alcazar, M., Deeds, T., Dragoo, S., Durham, L., Lagrew, D. C., Lyell, D. J., Semenuk, et al  
2026
- **A Framework for Supporting Patients and Families After a Severe Maternal Event.** *Obstetrics and gynecology*  
Bauer, M. E., Summers, K., Cassidy, A. G., Chavez, A., Nath, R., Carr, A., Panelli, D. M., Walczak, C., Tabios, M., Main, E. K.  
2026
- **Measuring Severe Maternal Morbidity: Current Practices, Challenges, and Opportunities.** *Obstetrics and gynecology*  
Main, E. K., Creanga, A. A.  
2026
- **Anemia During Pregnancy in a U.S. Nationwide Cohort, 2018-2023.** *Obstetrics and gynecology*  
Igbinoso, I. I., Booman, A., Duverge-Corporan, M., Legget, C., Sherwin, E. B., Lyell, D. J., Main, E. K., Bateman, B. T., Leonard, S. A.  
2026
- **The Role of State Perinatal Quality Collaboratives in Addressing Maternal Morbidity and Mortality.** *Obstetrics and gynecology*  
Radke, S., Borders, A., Gillispie-Bell, V., Lee King, P. A., Main, E. K., Carmichael, S. L.  
2026
- **Hypertensive Disorders of Pregnancy in Asian American, Native Hawaiian, and Pacific Islander Individuals in California, 2007 to 2019.** *Journal of the American Heart Association*  
Soh, J., Carvalho Magalhaes, M., Ma, C., Tsai, S., Main, E. K., Carmichael, S. L.  
2026: e042477
- **Trends and Racial and Ethnic Disparities in Maternal Cardiovascular Health in California.** *Journal of the American Heart Association*  
Hailu, E. M., Carmichael, S. L., Snowden, J. M., Lyndon, A., Main, E., Mujahid, M. S.  
2025: e039295
- **Pregnancy-Related Mortality in California Due to Obstetric Hemorrhage.** *Obstetrics and gynecology*  
Krakowiak, P., Morton, C. H., McCain, C., Sun, D., Mathur, D., Butwick, A. J., Gupta, N., Nijagal, M. A., Williams, A., Seacrist, M., Shields, L. E., Reyes, C., Klassen, et al

2025

- **Making sense of US maternal mortality data.** *Paediatric and perinatal epidemiology*  
Main, E. K.  
2024
- **Evaluation of Statewide Program to Reduce Cesarean Deliveries Among Nulliparous Individuals With Singleton Pregnancies at Term Gestation in Vertex Presentation.** *Obstetrics and gynecology*  
Rosenstein, M. G., Chang, S. C., Tucker, C. M., Sakowski, C., Leonard, S. A., Main, E. K.  
2024; 144 (4): 507-515
- **Moving from Principle to Practice: A Researcher's Guide to Co-Leading Engaged Research with Community Partners and Patients with Lived Experience to Reduce Maternal Mortality and Morbidity for Maternal Sepsis.** *Maternal and child health journal*  
Smith, K. L., Main, E., Bauer, M. E.  
2024
- **Chronic Hypertension During Pregnancy: Prevalence and Treatment in the United States, 2008-2021.** *Hypertension (Dallas, Tex. : 1979)*  
Leonard, S. A., Siadat, S., Main, E. K., Huybrechts, K. F., El-Sayed, Y. Y., Hlatky, M. A., Atkinson, J., Sujan, A., Bateman, B. T.  
2024
- **Near-miss and maternal sepsis mortality: A qualitative study of survivors and support persons.** *European journal of obstetrics, gynecology, and reproductive biology*  
Bauer, M. E., Perez, S. L., Main, E. K., Norman, G. S., Fish, L. J., Caldwell, M. A., Allen, C., Hughes, B. L., Gibbs, R. S., Smith, K. L.  
2024; 299: 136-142
- **Strategies for optimising early detection and obstetric first response management of postpartum haemorrhage at caesarean birth: a modified Delphi-based international expert consensus.** *BMJ open*  
Pingray, V., Williams, C. R., Al-Beity, F. M., Abalos, E., Arulkumaran, S., Blumenfeld, A., Carvalho, B., Deneux-Tharaux, C., Downe, S., Dumont, A., Escobar, M. F., Evans, C., Fawcus, et al  
2024; 14 (5): e079713
- **Performance Characteristics of Sepsis Screening Tools During Delivery Admissions.** *Obstetrics and gynecology*  
Main, E. K., Fuller, M., Kovacheva, V. P., Elkhateb, R., Azar, K., Caldwell, M., Chiem, V., Foster, M., Gibbs, R., Hughes, B. L., Johnson, R., Kottukapally, N., Cortes, et al  
2023
- **Performance Characteristics of Sepsis Screening Tools During Antepartum and Postpartum Admissions.** *Obstetrics and gynecology*  
Bauer, M. E., Fuller, M., Kovacheva, V., Elkhateb, R., Azar, K., Caldwell, M., Chiem, V., Foster, M., Gibbs, R., Hughes, B. L., Johnson, R., Kottukapally, N., Rosenstein, et al  
2023
- **Chronic Hypertension in Pregnancy and Racial-Ethnic Disparities in Complications.** *Obstetrics and gynecology*  
Leonard, S. A., Formanowski, B. L., Phibbs, C. S., Lorch, S., Main, E. K., Kozhimannil, K. B., Passarella, M., Bateman, B. T.  
2023
- **Alliance for Innovation on Maternal Health: Consensus Bundle on Sepsis in Obstetric Care.** *Obstetrics and gynecology*  
Bauer, M. E., Albright, C., Prabhu, M., Heine, R. P., Lennox, C., Allen, C., Burke, C., Chavez, A., Hughes, B. L., Kendig, S., Le Boeuf, M., Main, E., Messerall, et al  
2023; 142 (3): 481-492
- **Hospital-level variation in racial disparities in low-risk nulliparous cesarean birth rates.** *American journal of obstetrics & gynecology MFM*  
Main, E. K., Chang, S. C., Tucker, C. M., Sakowski, C., Leonard, S. A., Rosenstein, M. G.  
2023: 101145
- **Clinical and Physician Factors Associated With Failed Operative Vaginal Delivery.** *Obstetrics and gynecology*  
Panelli, D. M., Leonard, S. A., Joudi, N., Judy, A. E., Bianco, K., Gilbert, W. M., Main, E. K., El-Sayed, Y. Y., Lyell, D. J.  
2023
- **Addressing Adverse Childhood and Adult Experiences During Prenatal Care.** *Obstetrics and gynecology*  
Johnson, S., Kasparian, N. A., Cullum, A. S., Flanagan, T., Ponting, C., Kowalewski, L., Main, E. K.  
2023

- **Racial/Ethnic Disparities in Costs, Length of Stay, and Severity of Severe Maternal Morbidity.** *American journal of obstetrics & gynecology MFM*  
Phibbs, C. M., Kristensen-Cabrera, A., Kozhimannil, K. B., Leonard, S. A., Lorch, S. A., Main, E. K., Schmitt, S. K., Phibbs, C. S.  
2023: 100917
- **State Perinatal Quality Collaborative for Reducing Severe Maternal Morbidity From Hemorrhage: A Cost-Effectiveness Analysis.** *Obstetrics and gynecology*  
Wiesehan, E. C., Keesara, S. R., Krissberg, J. R., Main, E. K., Goldhaber-Fiebert, J. D.  
2023
- **Institutional Racism: A Key Contributor to Perinatal Health Inequity.** *Pediatrics*  
Dhurjati, R., Main, E., Profit, J.  
2021
- **Hospital Quality Improvement Interventions, Statewide Policy Initiatives, and Rates of Cesarean Delivery for Nulliparous, Term, Singleton, Vertex Births in California.** *JAMA*  
Rosenstein, M. G., Chang, S., Sakowski, C., Markow, C., Teleki, S., Lang, L., Logan, J., Cape, V., Main, E. K.  
2021; 325 (16): 1631–39
- **Safe care on maternity units: a multidimensional balancing act.** *BMJ quality & safety*  
White VanGompel, E. n., Main, E. K.  
2021
- **Obstetric comorbidity scores and disparities in severe maternal morbidity across marginalized groups.** *American journal of obstetrics & gynecology MFM*  
Leonard, S. A., Main, E. K., Lyell, D. J., Carmichael, S. L., Kennedy, C. J., Johnson, C., Mujahid, M. S.  
2021: 100530
- **Hospital-Level Variation in the Frequency of Cesarean Delivery Among Nulliparous Women Who Undergo Labor Induction.** *Obstetrics and gynecology*  
Main, E. K., Chang, S., Cheng, Y. W., Rosenstein, M. G., Lagrew, D. C.  
2020
- **Singleton preterm birth rates for racial and ethnic groups during the coronavirus disease 2019 pandemic in California.** *American journal of obstetrics and gynecology*  
Main, E. K., Chang, S., Carpenter, A. M., Wise, P. H., Stevenson, D. K., Shaw, G. M., Gould, J. B.  
2020
- **Birth Hospital and Racial/Ethnic Differences in Severe Maternal Morbidity in the State of California.** *American journal of obstetrics and gynecology*  
Mujahid, M. S., Kan, P., Leonard, S. A., Hailu, E. M., Wall-Wieler, E., Abrams, B., Main, E., Profit, J., Carmichael, S. L.  
2020
- **An Expanded Obstetric Comorbidity Scoring System for Predicting Severe Maternal Morbidity.** *Obstetrics and gynecology*  
Leonard, S. A., Kennedy, C. J., Carmichael, S. L., Lyell, D. J., Main, E. K.  
2020
- **Reduction in Racial Disparities in Severe Maternal Morbidity from Hemorrhage in a Large-scale Quality Improvement Collaborative.** *American journal of obstetrics and gynecology*  
Main, E. K., Chang, S. C., Dhurjati, R. n., Cape, V. n., Profit, J. n., Gould, J. B.  
2020
- **Antepartum iron-deficiency anemia: An opportunity to reduce severe maternal morbidity**  
Leonard, S. A., Main, E. K., Lyell, D. J., Butwick, A. J., Carmichael, S. L.  
MOSBY-ELSEVIER.2020: S168–S169
- **Time of Birth and the Risk of Severe Unexpected Complications in Term Singleton Neonates.** *Obstetrics and gynecology*  
Gould, J. B., Abreo, A. M., Chang, S. C., Main, E. K.  
2020

- **Low-Interventional Approaches to Intrapartum Care: Hospital Variation in Practice and Associated Factors.** *Journal of midwifery & women's health*  
Lundsberg, L. S., Main, E. K., Lee, H. C., Lin, H., Illuzzi, J. L., Xu, X.  
2019
- **National Partnership for Maternal Safety: Consensus Bundle on Obstetric Care for Women With Opioid Use Disorder.** *Obstetrics and gynecology*  
Krans, E. E., Campopiano, M., Cleveland, L. M., Goodman, D., Kilday, D., Kendig, S., Leffert, L. R., Main, E. K., Mitchell, K. T., O'Gurek, D. T., D'Oria, R., McDaniel, D., Terplan, et al  
2019
- **Creating Change at Scale Quality Improvement Strategies used by the California Maternal Quality Care Collaborative** *OBSTETRICS AND GYNECOLOGY CLINICS OF NORTH AMERICA*  
Markow, C., Main, E. K.  
2019; 46 (2): 317-+
- **Creating Change at Scale: Quality Improvement Strategies used by the California Maternal Quality Care Collaborative.** *Obstetrics and gynecology clinics of North America*  
Markow, C., Main, E. K.  
2019; 46 (2): 317-28
- **Systolic Hypertension, Preeclampsia-Related Mortality, and Stroke in California.** *Obstetrics and gynecology*  
Judy, A. E., McCain, C. L., Lawton, E. S., Morton, C. H., Main, E. K., Druzin, M. L.  
2019; 133 (6): 1151-59
- **Safety Assessment of a Large-Scale Improvement Collaborative to Reduce Nulliparous Cesarean Delivery Rates**  
Main, E. K., Chang, S., Cape, V., Sakowski, C., Smith, H., Vasher, J.  
LIPPINCOTT WILLIAMS & WILKINS.2019: 613-23
- **Cesarean overuse and the culture of care.** *Health services research*  
White VanGompel, E., Perez, S., Datta, A., Wang, C., Cape, V., Main, E.  
2019
- **The contribution of maternal characteristics and cesarean delivery to an increasing trend of severe maternal morbidity** *BMC Pregnancy and Childbirth*  
Leonard, S. A., Main, E. K., Carmichael, S. L.  
2019; 19 (16)
- **Racial and ethnic disparities in severe maternal morbidity prevalence and trends.** *Annals of epidemiology*  
Leonard, S. A., Main, E. K., Scott, K. A., Profit, J. n., Carmichael, S. L.  
2019
- **Measuring labor and delivery unit culture and clinicians' attitudes toward birth: Revision and validation of the Labor Culture Survey.** *Birth (Berkeley, Calif.)*  
White VanGompel, E., Perez, S., Wang, C., Datta, A., Cape, V., Main, E.  
2018
- **Addressing Maternal Mortality And Morbidity In California Through Public-Private Partnerships.** *Health affairs (Project Hope)*  
Main, E. K., Markow, C., Gould, J.  
2018; 37 (9): 1484-93
- **Addressing Maternal Mortality And Morbidity In California Through Public-Private Partnerships** *HEALTH AFFAIRS*  
Main, E. K., Markow, C., Gould, J.  
2018; 37 (9): 1484-93
- **Do provider birth attitudes influence cesarean delivery rate: a cross-sectional study** *BMC PREGNANCY AND CHILDBIRTH*  
VanGompel, E., Main, E. K., Tancredi, D., Melnikow, J.  
2018; 18: 184
- **Improving Maternal Safety at Scale with the Mentor Model of Collaborative Improvement** *JOINT COMMISSION JOURNAL ON QUALITY AND PATIENT SAFETY*

Main, E. K., Dhurjati, R., Cape, V., Vasher, J., Abreo, A., Chang, S., Gould, J. B.

2018; 44 (5): 250–59

- **Reducing Maternal Mortality and Severe Maternal Morbidity Through State-based Quality Improvement Initiatives.** *Clinical obstetrics and gynecology*  
Main, E. K.  
2018
- **The National Network of State Perinatal Quality Collaboratives: A Growing Movement to Improve Maternal and Infant Health** *JOURNAL OF WOMENS HEALTH*  
Henderson, Z. T., Ernst, K., Simpson, K., Berns, S., Suchdev, D. B., Main, E., McCaffrey, M., Lee, K., Rouse, T., Olson, C. K.  
2018; 27 (3): 221–26
- **Reduction of severe maternal morbidity from hemorrhage (SMM-HEM) using a state-wide perinatal collaborative**  
Main, E., Cape, V., Abreo, A., Vasher, J., Carpenter, A.  
MOSBY-ELSEVIER.2017: S37
- **The Impact of Maternal Obesity and Race/Ethnicity on Perinatal Outcomes: Independent and Joint Effects** *OBESITY*  
Snowden, J. M., Mission, J. F., Marshall, N. E., Quigley, B., Main, E., Gilbert, W. M., Chung, J. H., Caughey, A. B.  
2016; 24 (7): 1590–98
- **The Goldilocks Quandary of Health Care Resources Too Little, Too Much, or Just Right?** *OBSTETRICS AND GYNECOLOGY*  
Morgan, D. M., Main, E., Gee, R. E.  
2016; 127 (6): 1039–44
- **Measuring severe maternal morbidity: validation of potential measures** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*  
Main, E. K., Abreo, A., McNulty, J., Gilbert, W., McNally, C., Poeltler, D., Lanner-Cusin, K., Fenton, D., Gipps, T., Melsop, K., Greene, N., Gould, J. B., Kilpatrick, et al  
2016; 214 (5)
- **Pregnancy-Related Cardiovascular Deaths in California: Beyond Peripartum Cardiomyopathy** *OBSTETRICAL & GYNECOLOGICAL SURVEY*  
Hameed, A. B., Lawton, E. S., McCain, C. L., Morton, C. H., Mitchell, C., Main, E. K., Foster, E.  
2016; 71 (2): 63–65
- **Clues for understanding hospital variation among obstetric services** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*  
Main, E. K.  
2015; 213 (4): 443–44
- **National Partnership for Maternal Safety Consensus Bundle on Obstetric Hemorrhage** *OBSTETRICS AND GYNECOLOGY*  
Main, E. K., Goffman, D., Scavone, B. M., Low, L., Bingham, D., Fontaine, P. L., Gorlin, J. B., Lagrew, D. C., Levy, B. S.  
2015; 126 (1): 155–62
- **The National Partnership for Maternal Safety: A Call to Action for Anesthesiologists** *ANESTHESIA AND ANALGESIA*  
Scavone, B. M., Main, E. K.  
2015; 121 (1): 14–16
- **Pregnancy-Related Mortality in California Causes, Characteristics, and Improvement Opportunities** *OBSTETRICS AND GYNECOLOGY*  
Main, E. K., McCain, C. L., Morton, C. H., Holtby, S., Lawton, E. S.  
2015; 125 (4): 938–947
- **Pregnancy-related cardiovascular deaths in California: beyond peripartum cardiomyopathy.** *American journal of obstetrics and gynecology*  
2015
- **Opportunities for maternal transport of pregnancies at risk for delivery of VLBW infants - results from the california maternal quality care collaborative**  
Robles, D., Blumenfeld, Y., Lee, H., Gould, J., Main, E., Profit, J., Melsop, K., Druzin, M.  
MOSBY-ELSEVIER.2015: S237
- **Executive Summary of the reVITALize Initiative Standardizing Obstetric Data Definitions** *OBSTETRICS AND GYNECOLOGY*  
Menard, M., Main, E. K., Currigan, S. M.  
2014; 124 (1): 150–53

- **California Pregnancy-Associated Mortality Review: Mixed Methods Approach for Improved Case Identification, Cause of Death Analyses and Translation of Findings** *MATERNAL AND CHILD HEALTH JOURNAL*  
Mitchell, C., Lawton, E., Morton, C., McCain, C., Holtby, S., Main, E.  
2014; 18 (3): 518-526
- **Cardiovascular Disease: The Leading Cause of Pregnancy-Related Death in California 2002-2005**  
Hameed, A. B., Foster, E., McCain, C., Morton, C., Main, E.  
LIPPINCOTT WILLIAMS & WILKINS.2013
- **Maternal Mortality Time for National Action** *OBSTETRICS AND GYNECOLOGY*  
Main, E. K., Menard, M.  
2013; 122 (4): 735-36
- **Pathology Following Stillbirth: Differences by Insurance Status and Educational Attainment.** *Paediatric and perinatal epidemiology*  
Diamond, E., Carmichael, S. L., Main, E. K., Miller, H. E., Booman, A., Leonard, S. A.  
2026
- **Wildland fire smoke, severe maternal morbidity, and health equity: A population-based cohort study in California.** *The Science of the total environment*  
Gao, X., Ma, C., Stone, J., Lurmann, F., Pavlovic, N. R., Main, E. K., Carmichael, S. L., Padula, A. M.  
2026; 1034: 181838
- **Neonatal Intensive Care Unit Cultural Familiarity Shows Limited Impact on Outcomes Among Asian American, Native Hawaiian, and Pacific Islander Very Low Birth Weight infants.** *American journal of perinatology*  
Olatunji, I., Cui, X., Main, E. K., Shariff-Marco, S., Gomez, S., Profit, J.  
2026
- **Pregnancy Outcomes Associated With Anemia in the First Trimester and Anemia Resolution by Late Pregnancy.** *Obstetrics and gynecology*  
Booman, A., Bateman, B. T., Siadat, S., Berube, C., Igbinsosa, I., Leggett, C., Lyell, D. J., Main, E. K., Leonard, S. A.  
2026
- **Impact of COVID-19 respiratory conditions on pregnancy outcomes in California.** *Journal of perinatology : official journal of the California Perinatal Association*  
Martin, C. B., Chang, S. C., Sakowski, C., Aziz, N., Gould, J. B., Stevenson, D. K., Main, E. K.  
2026
- **Association Between Mental Illness and Risk of Severe Maternal Morbidity in Pregnant Veterans.** *Obstetrics and gynecology*  
Panelli, D. M., Esmaeili, A., Joyce, V. R., Chan, C. S., Gujral, K., Schmitt, S. K., Murphy, N. F., Kimerling, R., Lockett, M., Leonard, S. A., Main, E. K., Shaw, J. G., Phibbs, et al  
2025
- **Hospital birth volume and rurality: Associations with pregnancy outcomes among individuals with chronic hypertension.** *Pregnancy (Hoboken, N.J.)*  
Leonard, S. A., Main, E. K., Formanowski, B. L., Lorch, S. A., Phibb, C. S., Handley, S. C., Passarella, M., Bateman, B. T., Kozhimannil, K. B.  
2025; 1 (5): e70115
- **Validation of ICD-10 Diagnosis Codes for Antepartum Anemia**  
Booman, A., Siadat, S., Bateman, B., Igbinsosa, I., Main, E., Lyell, D., Leggett, C., Leonard, S.  
WILEY.2025: 16-17
- **Comparative Effectiveness and Safety of Labetalol Versus Nifedipine for Treatment of Chronic Hypertension During Pregnancy.** *JACC. Advances*  
Leonard, S. A., Siadat, S., Huybrechts, K. F., Main, E. K., Hlatky, M. A., Hernández-Díaz, S., Bateman, B. T.  
2025: 102054
- **Severe Maternal Morbidity Among Adolescents Aged 10-19 in California, 2001-2020.** *The Journal of adolescent health : official publication of the Society for Adolescent Medicine*  
Carvalho Magalhães, M. N., Soh, J. S., Snowden, J. M., Main, E. K., Kan, P., Carmichael, S. L.  
2025
- **The Association Between Obstetric Delivery Volume on Neonatal and Pregnancy Outcomes**

- Phibbs, C., Kozhimannil, K., Leonard, S., Main, E., Passarella, M., Lorch, S.  
WILEY.2025: 42-43
- **Neighborhood Disinvestment and Racial and Ethnic Disparities in Peripartum Cardiomyopathy in California, From 2004 to 2019.** *Journal of the American Heart Association*  
Tucker, C. M., Ma, C., Mujahid, M. S., Hameed, A. B., Lyndon, A., Main, E. K., Carmichael, S. L.  
2025: e036710
  - **Episiotomy and severe perineal laceration among Asian American, Native Hawaiian, and Pacific Islander nulliparous individuals in California.** *AJOG global reports*  
Chidyausiku, T., Bane, S., Sperling, M. M., Main, E. K., Carmichael, S. L.  
2025; 5 (1): 100450
  - **Severe maternal morbidity and potential disparities by race and rurality among VA-covered births, 2010 to 2020.** *American journal of obstetrics and gynecology*  
Gujral, K., Esmaeili, A., Leonard, S. A., Shaw, J. G., Joyce, V. R., Panelli, D. M., Schmitt, S. K., Kimerling, R., Main, E. K., Phibbs, C. S.  
2024
  - **Labor and delivery unit practices and racial and ethnic disparities in severe maternal and neonatal morbidity among nulliparous individuals with low-risk pregnancies.** *American journal of epidemiology*  
Leonard, S. A., Xu, X., Davies-Balch, S., Main, E. K., Bateman, B. T., Rehkopf, D. H., Lee, H. C., Illuzzi, J., Igbinosa, I., Iwekaogwu, I., Lyell, D. J.  
2024
  - **Disparities in Survival Without Major Morbidity Among Very Low Birth Weight Infants in California.** *Pediatrics*  
Liu, J., Profit, J., Hintz, S. R., Gould, J. B., Main, E. K., Lee, H. C.  
2024
  - **Prevalence and Treatment of Chronic Hypertension During Pregnancy in a U. S. Cohort, 2008-2021**  
Leonard, S. A., Siadat, S., Main, E. K., Huybrechts, K. F., El-Sayed, Y. Y., Hlatky, M. A., Atkinson, J., Bateman, B. T.  
WILEY.2024: 319
  - **CMQCC obstetric sepsis toolkit update: A patient-centered approach to quality improvement.** *Seminars in perinatology*  
Main, E. K., Nath, R., Bauer, M. E.  
2024: 151976
  - **A Counterfactual Analysis of Impact of Cesarean Birth in a First Birth on Severe Maternal Morbidity in the Subsequent Birth.** *Epidemiology (Cambridge, Mass.)*  
Bane, S., Snowden, J. M., Simard, J. F., Odden, M., Kan, P., Main, E. K., Carmichael, S. L.  
2024
  - **The relative impact of labor induction versus improved labor management: Before and after the ARRIVE (a randomized trial of induction vs. expectant management) trial.** *Birth (Berkeley, Calif.)*  
Fineberg, A. E., Harley, K., Lahiff, M., Main, E. K.  
2024
  - **Validity of Birth Certificate Data Compared With Hospital Discharge Data in Reporting Maternal Morbidity and Disparities.** *Obstetrics and gynecology*  
Gemmill, A., Passarella, M., Phibbs, C. S., Main, E. K., Lorch, S. A., Kozhimannil, K. B., Carmichael, S. L., Leonard, S. A.  
2024
  - **In Reply.** *Obstetrics and gynecology*  
Leonard, S. A., Phibbs, C. S., Main, E. K., Kozhimannil, K. B., Bateman, B. T.  
2024; 143 (1): e18-e19
  - **Trends and Disparities in Severe Maternal Morbidity Indicator Categories During Childbirth Hospitalization in California from 1997-2017.** *American journal of perinatology*  
El Ayadi, A. M., Lyndon, A., Kan, P., Mujahid, M. S., Main, E. K., Carmichael, S.  
2023
  - **State Variation in Severe Maternal Morbidity Among Individuals with Medicaid Insurance.** *Obstetrics and gynecology*  
Hirai, A. H., Vladutiu, C. J., Main, E. K., Moore, J.

2023; 142 (4): 989

- **Racial and Ethnic Disparities in Anemia and Severe Maternal Morbidity.** *Obstetrics and gynecology*  
Igbinoso, I. I., Leonard, S. A., Noelette, F., Davies-Balch, S., Carmichael, S. L., Main, E., Lyell, D. J.  
2023
- **Perinatal Care Measures Are Incomplete If They Do Not Assess The Birth Parent-Infant Dyad As A Whole.** *Health affairs (Project Hope)*  
Handley, S. C., Formanowski, B., Passarella, M., Kozhimannil, K. B., Leonard, S. A., Main, E. K., Phibbs, C. S., Lorch, S. A.  
2023; 42 (9): 1266-1274
- **Obstetric Volume and Severe Maternal Morbidity Among Low-Risk and Higher-Risk Patients Giving Birth at Rural and Urban US Hospitals.** *JAMA health forum*  
Kozhimannil, K. B., Leonard, S. A., Handley, S. C., Passarella, M., Main, E. K., Lorch, S. A., Phibbs, C. S.  
2023; 4 (6): e232110
- **Measuring Severe Maternal Morbidity: Nothing Is Simple** *JOINT COMMISSION JOURNAL ON QUALITY AND PATIENT SAFETY*  
Main, E. K.  
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