

Stanford



Elliott Main

Clinical Professor, Obstetrics & Gynecology - Maternal Fetal Medicine

Bio

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Medical Director, California Maternal Quality Care Collaborative, (2006- present)

Publications

PUBLICATIONS

- **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*
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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.

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- **Maternal Mortality Time for National Action** *OBSTETRICS AND GYNECOLOGY*
Main, E. K., Menard, M.
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- **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*
Igbino, 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.
2023; 49 (3): 127-128
- **Racial/ethnic disparities in severe maternal morbidity: An intersectional lifecourse approach.** *Annals of the New York Academy of Sciences*
Hailu, E. M., Carmichael, S. L., Berkowitz, R. L., Snowden, J. M., Lyndon, A., Main, E., Mujahid, M. S.
2022
- **Validation of ICD-10-CM Diagnosis Codes for Gestational Age at Birth.** *Epidemiology (Cambridge, Mass.)*
Leonard, S. A., Panelli, D. M., Gould, J. B., Gemmill, A., Main, E. K.
2022
- **Hospital variation in extremely preterm birth.** *Journal of perinatology : official journal of the California Perinatal Association*
Goldstein, G. P., Kan, P., Phibbs, C. S., Main, E., Shaw, G. M., Lee, H. C.
2022
- **Risk factors and pregnancy outcomes vary among Asian American, Native Hawaiian, and Pacific Islander individuals giving birth in California.** *Annals of epidemiology*
Bane, S., Abrams, B., Mujahid, M., Ma, C., Shariff-Marco, S., Main, E., Profit, J., Xue, A., Palaniappan, L., Carmichael, S. L.
2022
- **How State Perinatal Quality Collaboratives Can Improve Rural Maternity Care.** *Clinical obstetrics and gynecology*
Main, E. K., Sakowski, C.
2022
- **Associations Between State-Level Severe Maternal Morbidity and Other Perinatal Indicators.** *JAMA network open*
Hirai, A. H., Owens, P. L., Reid, L. D., Vladutiu, C. J., Main, E. K.
2022; 5 (7): e2224621

- **Trends in Severe Maternal Morbidity in the US Across the Transition to ICD-10-CM/PCS From 2012-2019.** *JAMA network open*
Hirai, A. H., Owens, P. L., Reid, L. D., Vladutiu, C. J., Main, E. K.
2022; 5 (7): e2222966
- **Sexual and/or Gender Minority Parental Structures among California Births, 2016-2020.** *American journal of obstetrics & gynecology MFM*
Berrahou, I. K., Leonard, S. A., Zhang, A., Main, E. K., Obedin-Maliver, J.
2022: 100653
- **Sexual and/or gender minority disparities in obstetric and birth outcomes.** *American journal of obstetrics and gynecology*
Leonard, S. A., Berrahou, I., Zhang, A., Monseur, B., Main, E. K., Obedin-Maliver, J.
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- **Composite Perinatal Morbidity Metrics: Getting closer but still with challenges.** *Paediatric and perinatal epidemiology*
Main, E. K.
2022; 36 (2): 202-204
- **The effect of severe maternal morbidity on infant costs and lengths of stay.** *Journal of perinatology : official journal of the California Perinatal Association*
Phibbs, C. M., Kozhimannil, K. B., Leonard, S. A., Lorch, S. A., Main, E. K., Schmitt, S. K., Phibbs, C. S.
2022
- **A Comprehensive Analysis of the Costs of Severe Maternal Morbidity.** *Women's health issues : official publication of the Jacobs Institute of Women's Health*
Phibbs, C. M., Kozhimannil, K. B., Leonard, S. A., Lorch, S. A., Main, E. K., Schmitt, S. K., Phibbs, C. S.
1800
- **Validation of ICD-10-CM Diagnosis Codes for Gestational Age at Birth**
Leonard, S. A., Gould, J. B., Main, E. K.
MOSBY-ELSEVIER.2022: S429
- **HOSPITAL VARIATION IN EXTREMELY PRETERM BIRTH**
Goldstein, G. P., Kan, P., Phibbs, C., Main, E., Shaw, G. M., Lee, H.
BMJ PUBLISHING GROUP.2022: 215
- **Obstetric and birth outcomes among sexual and/or gender minority patients, California, 2016-2019**
Leonard, S. A., Berrahou, I., Zhang, A., Main, E. K., Obedin-Maliver, J.
MOSBY-ELSEVIER.2022: S69-S70
- **Constructing a cohort of nulliparous, term, singleton, vertex births from electronic health records**
Callahan, A., Murugappan, G., Main, E. K., Leonard, S. A.
MOSBY-ELSEVIER.2022: S521-S522
- **Health Disparities in Antepartum Anemia: The Intersection of Race and Social Determinants of Health**
Igbinoso, I., Leonard, S. A., Noelette, F., Mujahid, M., Main, E. K., Lyell, D. J.
MOSBY-ELSEVIER.2022: S529-S530
- **Ways Forward in Preventing Severe Maternal Morbidity and Maternal Health Inequities: Conceptual Frameworks, Definitions, and Data, from a Population Health Perspective.** *Women's health issues : official publication of the Jacobs Institute of Women's Health*
Carmichael, S. L., Abrams, B., El Ayadi, A., Lee, H. C., Liu, C., Lyell, D. J., Lyndon, A., Main, E. K., Mujahid, M., Tian, L., Snowden, J. M.
1800
- **Birth registration policies in the United States and their relevance to sexual and/or gender minority families: Identifying existing strengths and areas of improvement.** *Social science & medicine (1982)*
Zhang, A., Berrahou, I., Leonard, S. A., Main, E. K., Obedin-Maliver, J.
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- **Hospital Quality Improvement Interventions, Statewide Policy Initiatives, and Rates of Cesarean Delivery for Nulliparous, Term, Singleton, Vertex Births in California** *OBSTETRICAL & GYNECOLOGICAL SURVEY*
Rosenstein, M. G., Chang, S., Sakowski, C., Markow, C., Teleki, S., Lang, L., Logan, J., Cape, V., Main, E. K.
2021; 76 (10): 593-595
- **Culture That Facilitates Change: A Mixed Methods Study of Hospitals Engaged in Reducing Cesarean Deliveries** *ANNALS OF FAMILY MEDICINE*

- VanGompel, E., Perez, S. L., Datta, A., Carlock, F. R., Cape, V., Main, E. K.
2021; 19 (3): 249-257
- **COST-EFFECTIVENESS OF A STATE PERINATAL QUALITY COLLABORATIVE FOR REDUCING SEVERE MATERNAL MORBIDITY FROM HEMORRHAGE**
Wiesehan, E., Keesara, S., Krissberg, J., Main, E., Goldhaber-Fiebert, J. D.
SAGE PUBLICATIONS INC.2021: E8-E9
 - **Severe Maternal Morbidity: A Comparison of Definitions and Data Sources.** *American journal of epidemiology*
Snowden, J. M., Lyndon, A., Kan, P., El Ayadi, A., Main, E., Carmichael, S. L.
2021
 - **Maternal and neonatal health care worker well-being and patient safety climate amid the COVID-19 pandemic.** *Journal of perinatology : official journal of the California Perinatal Association*
Haidari, E., Main, E. K., Cui, X., Cape, V., Tawfik, D. S., Adair, K. C., Sexton, B. J., Profit, J.
2021
 - **Enhanced maternal mortality surveillance identifies higher mortality ratios and greater racial/ethnic disparity than death certificates**
Krackowiak, P., Sun, D., McCain, C., Morton, C. H., Ramos, D. E., Reynen, D. J., Main, E. K., Mitchell, C.
MOSBY-ELSEVIER.2021: S229–S230
 - **Measuring Variation in Interpregnancy Interval: Identifying Hotspots for Improvement Initiatives.** *American journal of perinatology*
Karakash, S. D., Main, E. K., Chang, S. C., Shaw, G. M., Stevenson, D. K., Gould, J. B.
2021
 - **Association of Maternal Comorbidity With Severe Maternal Morbidity: A Cohort Study of California Mothers Delivering Between 1997 and 2014.** *Annals of internal medicine*
Main, E. K., Leonard, S. A., Menard, M. K.
2020; 173 (11_Supplement): S11–S18
 - **Quality Improvement Opportunities Identified Through Case Review of Pregnancy-Related Deaths From Cardiovascular Disease**
Van Otterloo, L., Main, E., Seacrist, M., Morton, C. H.
ELSEVIER SCIENCE INC.2020: S13
 - **Weight gain during pregnancy and the risk of severe maternal morbidity by prepregnancy BMI.** *The American journal of clinical nutrition*
Leonard, S. A., Abrams, B., Main, E. K., Lyell, D. J., Carmichael, S. L.
2020
 - **Racial and Ethnic Disparities in Hospital-Based Care Associated with Postpartum Depression.** *Journal of racial and ethnic health disparities*
Chan, A. L., Guo, N. n., Popat, R. n., Robakis, T. n., Blumenfeld, Y. Y., Main, E. n., Scott, K. A., Butwick, A. J.
2020
 - **Pre-pregnancy Obesity and the Risk of Peripartum Cardiomyopathy.** *American journal of perinatology*
Cho, S. H., Leonard, S. A., Lyndon, A. n., Main, E. K., Abrams, B. n., Hameed, A. B., Carmichael, S. L.
2020
 - **Quality and Safety Programs in Obstetrics and Gynecology.** *Clinical obstetrics and gynecology*
Main, E. K.
2019
 - **Measuring labor and delivery unit culture and clinicians' attitudes toward birth: Revision and validation of the Labor Culture Survey** *BIRTH-ISSUES IN PERINATAL CARE*
VanGompel, E., Perez, S., Wang, C., Datta, A., Cape, V., Main, E.
2019; 46 (2): 300–310
 - **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
 - **Quality Improvement Opportunities Identified Through Case Review of Pregnancy-Related Deaths From Cardiovascular Disease** *JOGNN-JOURNAL OF OBSTETRIC GYNECOLOGIC AND NEONATAL NURSING*

-
- VanOtterloo, L. R., Morton, C. H., Seacrist, M. J., Main, E. K.
2019; 48 (3): 263–74
- **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., Carmichael, S. L.
2019; 33: 30–36
 - **Quality Improvement Opportunities Identified Through Case Review of Pregnancy-Related Deaths From Preeclampsia/Eclampsia** *JOGNN-JOURNAL OF OBSTETRIC GYNECOLOGIC AND NEONATAL NURSING*
Morton, C. H., Seacrist, M. J., VanOtterloo, L. R., Main, E. K.
2019; 48 (3): 275–87
 - **Quality Improvement Opportunities Identified Through Case Review of Pregnancy-Related Deaths From Sepsis** *JOGNN-JOURNAL OF OBSTETRIC GYNECOLOGIC AND NEONATAL NURSING*
Seacrist, M. J., Morton, C. H., VanOtterloo, L. R., Main, E. K.
2019; 48 (3): 311–20
 - **Translating Maternal Mortality Review Into Quality Improvement Opportunities in Response to Pregnancy-Related Deaths in California** *JOGNN-JOURNAL OF OBSTETRIC GYNECOLOGIC AND NEONATAL NURSING*
Morton, C. H., VanOtterloo, L. R., Seacrist, M. J., Main, E. K.
2019; 48 (3): 252–62
 - **Quality Improvement Opportunities Identified Through Case Review of Pregnancy-Related Deaths From Obstetric Hemorrhage** *JOGNN-JOURNAL OF OBSTETRIC GYNECOLOGIC AND NEONATAL NURSING*
Seacrist, M. J., VanOtterloo, L. R., Morton, C. H., Main, E. K.
2019; 48 (3): 288–99
 - **Quality Improvement Opportunities Identified Through Case Review of Pregnancy-Related Deaths From Venous Thromboembolism** *JOGNN-JOURNAL OF OBSTETRIC GYNECOLOGIC AND NEONATAL NURSING*
VanOtterloo, L. R., Seacrist, M. J., Morton, C. H., Main, E. K.
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