

Mary Ashley Cain, M.D.

University of South Florida, Morsani College of Medicine, Tampa, Florida

Address

2 Tampa General Circle, 6th Floor, Tampa, FL 33606

United States

Citizenship

Education

Medical College of Georgia, MD, 2004-2008

Medical School

Davidson College, BS Biology, 2004

2004-2008

Undergraduate

2000-2004

Postgraduate Training

Fellowship

Maternal Fetal Medicine
University of South Florida

2012-2015

Residency

Obstetrics and Gynecology
University of South Florida

2008-2012

Awards, Honors, Honorary Society Memberships

Obstetrics and Gynecology top 10% reviewer

2019

Obstetrics and Gynecology top 10% reviewer

2015

Excellent resident teacher in Obstetrics and Gynecology,
University of South Florida Morsani College of Medicine.

2008-2012

Developmental Biology Award
Medical College of Georgia School of Medicine

2004

Beta Beta Beta Biology Honor Society

2004

Alpha Epsilon Delta Honor Society

2004

Captain Women's Swimming and Diving Team, 2002-2004
Davidson College, Davidson, NC

Varsity Swimming Letter Award Winner, 2000-2004
Davidson College Davidson NC

Academic Appointments

Associate Professor 2022-
Division of Maternal Fetal Medicine current
Department of Obstetrics and Gynecology
University of South Florida Morsani College of Medicine

Assistant Professor 2015-2022
Division of Maternal Fetal Medicine
Department of Obstetrics and Gynecology
University of South Florida Morsani College of Medicine

Clinical Instructor 2013-2015
Department of Obstetrics and Gynecology Morsani College of Medicine
University of South Florida; Tampa, FL

Teaching, Lecture

Undergraduate Medical

BCC 7185 Maternal-Newborn Peds Clerkship 2015-current

Graduate Medical

Faculty member, 2015-current
Obstetrics and Gynecology Residency, USF

Core Faculty member 2015- current
Maternal Fetal Medicine Fellowship, USF

Fellowship Program Director 2020-current
Maternal Fetal Medicine Fellowship, USF

Innovations in Education:

Invasive Procedures in MFM simulation modules	2018-current
Multidisciplinary subspecialty OBGYN fellowship research bootcamp Program	2019-current
Multidisciplinary subspecialty OBGYN fellowship wellness retreat	2021-current

Mentorship

Emma Hale Morsani COM class of 2023-RISE mentor

Peeraya Sawangkum MD- USF OBGYN residency research mentor

Brittany Manobianco MD- USF OBGYN residency research mentor

Elizabeth Hoover MD- Postpartum follow up quality improvement mentor

Rachelle Price MD- High-Risk Postpartum clinic quality improvement mentor

Bradley Sipe MD- Treatment of Sepsis in pregnancy-quality improvement mentor

Zailing Xing – Dissertation Committee Member

Claudio Schenone, MD – USF OBGYN, Maternal-Fetal Medicine Fellowship Mentor

Viviana De Assis, DO – USF OBGYN, Maternal-Fetal Medicine Fellowship Mentor

Lectures by Invitation

National

<p>“Preconception Care for the Complex Cardiac Patient”</p> <p>Society for Maternal Fetal Medicine Cardio-Obstetrics Scientific Forum</p> <p>Society for Maternal Fetal Medicine Annual Meeting, Denver CO</p>	2025
<p>“Sleep in Pregnancy” Emory University School of Medicine Obstetrics and Gynecology Grand Rounds virtual</p>	2021

“Sleep in Pregnancy”
Brigham and Women’s Perinatal Conference, virtual

“Hypertension it’s not just for breakfast anymore” 2018
Cutting Edge Conference,
Monmouth, New Jersey

Breaking bad news simulation instructor” ACOG Obstetrical Emergencies 2018
and Catastrophes course
Tampa, FL

“Documentation in Obstetrics” 2016,
ACOG Obstetrical emergencies and catastrophes course 2017,
Tampa, FL 2018

Maternal Code simulation”
ACOG Obstetrical emergencies and catastrophes course 2018
Tampa, FL

“Severe Hypertriglyceridemia and Pregnancy: Implications for Care”
Pregnancy as a Window to Future Health, Scientific Forum. 2014
34th Annual Meeting of the Society for Maternal Fetal Medicine
New Orleans, LA

Regional

“ Two Beating Hearts. The Art of Collaborative Cadio-Obstetrics Care” 2024
American College of Obstetricians and Gynecologist
District IIX Annual Meeting 2021
Orlando, FL

“HIV in Pregnancy”
American College of Obstetricians and Gynecologist 2018
District IIX Annual Meeting
Virtual

“Pregnancy as a Window to Future Health” 2014
Florida Academy of CNM, annual state conference

“Sleep in Pregnancy” 14th annual Conference on Obesity, Orlando, FL 2022

Local

“Hypertension in Pregnancy- Beyond the Terrible Twos” 2024
USF OBGYN Department Grand Rounds

“Feedback in Graduate Education” 2024
USF OBGYN department Grand Rounds

"Hypertension in Pregnancy – Choose your own adventure" USF OBGYN Department Grand Rounds	2021
"Umbilical Vein Varix" Tampa General Hospital and USF quarterly ultrasound conference, Tampa FL	2020
"Where you deliver matters" Tampa General Hospital community medical education, Tampa FL	2018
"HIV in Pregnancy" Department of Obstetrics and Gynecology Grand Rounds University of South Florida, Tampa FL	2017
"Chest masses" Tampa General Hospital and USF quarterly ultrasound conference, Tampa FL	2016
"Pregnancy as a Window to Future Health" Tampa General Hospital community medical education, Tampa FL	2015.2016
Pregnancy as a Window to Future Health" Department of Obstetrics and Gynecology Grand Rounds University of South Florida, Tampa FL	2014
"Maternal Wolff-Parkinson-White and Ebstein's Anomaly" Complex Obstetrical Patient Review University of South Florida, Tampa FL	2013
"Type One Diabetes and Pregnancy" Students with Diabetes National Conference, Annually Tampa, FL	2013-2015
"Investigating Neonatal Outcomes of Pregnancies Complicated by Gastroschisis and Optimal Delivery Timing" Perinatal Research Seminar, University of South Florida, Tampa FL	2013

Clinical Activities or Innovations

<u>Specialty certifications</u>	
Subspecialty certification: Maternal Fetal Medicine	2015
Specialty certification: Obstetrics and Gynecology	2012
<u>Medical licensure</u>	
State of Florida Medical License	2012-
<u>Clinical innovation</u>	
High-risk postpartum care clinic	2019-

Scholarly Activity

B) Past Grants

Agency: University of South Florida

I.D.# Women's Health Collaborative Seed Grant -10009 612200

Title:"A Pilot Study of postpartum weight loss in obese women using a sleep intervention in a group prenatal care setting" P.I.:Jessica Brumley PhD, CNM

Total costs for project period: \$ 10,696

Project period: 03/2014-05/2016

Published Bibliography

Peer-reviewed

Cain MA, Bornick P, Whiteman V. The Maternal, Fetal, and Neonatal Effects of Cocaine Exposure in Pregnancy. Clin Obstet Gynecol. 2013 Mar; 56(1):124-32.

Cain MA, Guidi C, Steffensen T, Whiteman VE, Gilbert-Barness E, Johnson DR. Postmortem ultrasonography of the macerated fetus complements autopsy following in utero fetal demise. Pediatr Dev Pathol. 2014 Mar 11.

Cain MA, Whiteman VE, Buhari MA, Louis JM. Positive Interferon-Gamma Release Assay Leading to a Diagnosis of *Mycobacterium tuberculosis* Pericarditis in Pregnancy. Obstetrics and Gynecology. 2014

Cain, MA; Salemi JL; Tanner, JP; Mogos, M; Kirby, RS; Whiteman, VE; Salihu, HM. Timing of delivery of a gastroschisis affected pregnancy and its impact on perinatal outcomes and hospital costs. Obstetrics and Gynecology. 2014 September

Whiteman VE, Salemi JL, Mogos M, **Cain MA**, Aliyu MH, Salihu HM. Maternal opioid drug use during pregnancy and its impact on perinatal morbidity, mortality and the costs of medical care in the United States. Journal of Pregnancy 2014;2014:906723. doi: 10.1155/2014/906723. Epub 2014 Aug 28.

Whiteman VE, Zweibel B, Amand A, **Cain MA**, Stickles X, Hoffman M. Staged management of placenta accreta in a hybrid operating room suite. Obstetrics and Gynaecology Cases-Reviews.

Cain, MA, Ricciuti, J, Louis JM. Sleep-disordered breathing in pregnancy and future cardiovascular disease risk. *Seminars in Perinatology*. 2015 Jun;39(4):304-9

Whiteman, VE; Salemi JS; Mejia De Grubb, MC; **Cain MA**; Mogos MF; Zoorob RJ; Salihu HM. The additive effects of pre-pregnancy body mass index and gestational diabetes on pregnancy outcomes and healthcare costs. *Obesity*. 2015 Nov;23(11):2299-308.

Cain MA; Ellis J; Vengrove MA; Wilcox B; Yankowitz J; Smulian JC. Gallstone and severe hypertriglyceride-induced pancreatitis in pregnancy. *Obstetrical and Gynecological Survey*. 2015 70 (9) 577-83.

Mikhail, E. **Cain MA**, Shah M, Solnik MJ, Sobolewski CJ, Hart S. Does laparoscopic hysterectomy increase the risk of vaginal cuff dehiscence? An analysis of outcomes from multiple academic centers and a review of the literature. *Surg Technol Int* 2015 Nov;27: 157-62.

Omar HR, Sprenker C, Alvey E, Hoffman M, Karlinski R, Ching YH **Cain MA**, Mangar D, Camporesi EM. The value of occlusive balloons in the management of abnormal placentation: a retrospective study. *Journal of Obstetrics and Gynaecology*. 2015 Oct 22:1-4

Mogos M, Salemi J, **Cain MA**, Whiteman VE, Salihu HM. Recent trends in placenta accreta in the United States and its impact on maternal-fetal morbidity and healthcare-associated costs, 1998–2011. *Journal of Maternal, Fetal and Neonatal Medicine*. 2016 Apr;29(7): 1077-1082.

Brumley J, **Cain MA**, Stern M, Louis JM. Gestational Weight Gain and Breastfeeding Outcomes in Group Prenatal Care. *J Midwifery Womens Health*. 2016 Sep;61(5):557-562. doi: 10.1111/jmwh.12484. Epub 2016 Jul 18.

Cain MA, Louis JM. Sleep disordered breathing in pregnancy. *Clinics in Laboratory Medicine*. *Clin Lab Med*. 2016 Jun;36(2):435-46. doi: 10.1016/j.cl.2016.01.001. Epub 2016 Mar 4. Review.

Cain MA, Salemi JL, Tanner JP, Kirby RS, Salihu HM, Louis JM. Pregnancy as a window to future health: maternal placental syndromes and short-term cardiovascular outcomes. *Am J Obstet Gynecol*. 2016 Oct;215(4):484.e1-484.e14. doi: 10.1016/j.ajog.2016.05.047. Epub 2016 Jun 2.

Mcdowell, M, **Cain MA**, Brumley J. Excessive Gestational Weight Gain. *Journal of Midwifery and Womens Health*. 2019 Jan; 64(1): 46-54

Cain, MA, Brumley J, Louis-Jacques A, Drerup M, Stern M, Louis JM. A Pilot Study of a Sleep Intervention Delivered through Group Prenatal Care to Overweight and Obese Women. [Behav Sleep Med](#). 2019 May 25;1-11. doi: 10.1080/15402002.2019.1613995

Kendle AM, Roekner JT, Santillana EC, Kis LE, **Cain MA**. Cystic Fibrosis Transmembrane Conductance Regulator Modulators During Pregnancy: A Case Series. *Cureus*. 2021 Aug 25;13(8):e17427. doi: 10.7759/cureus.17427. PMID: 34589336; PMCID: PMC8460487.

Müller R, Steffensen T, Krstić N, **Cain MA**. Report of a novel variant in the FAM111A gene in a fetus with multiple anomalies including gracile bones, hypoplastic spleen, and hypomineralized skull. *Am J Med Genet A*. 2021 Jun;185(6):1903-1907. doi: 10.1002/ajmg.a.62182. Epub 2021 Mar 22. PMID: 33750016.

Akers A, De Assis V, Scoma C, **Cain MA**, Crousillat DR. Patient-Prosthesis Mismatch in Pregnancy: A Multidisciplinary Approach. *JACC Case Rep*. 2023 Dec 6;27:102073. doi: 10.1016/j.jaccas.2023.102073. PMID: 38094715; PMCID: PMC10715955.

Cain MA, Lee J, Kuper S, Sinkey R. Two pregnancies in a patient following pulmonary endarterectomy for chronic thromboembolic pulmonary hypertension. *BMJ Case Rep*. 2023 Nov 14;16(11):e256158. doi: 10.1136/bcr-2023-256158. PMID: 37963661; PMCID: PMC10649499.

Schenone CV, **Ashley Cain M**, Schenone AL, Smith T, Tsalatsanis A, Louis JM, Crousillat DR. Changes in rate-pressure product associated with pregnancy. *Am J Obstet Gynecol MFM*. 2024 Mar 5;6(4):101338. doi: 10.1016/j.ajogmf.2024.101338. Epub ahead of print. PMID: 38453019.

Pressman K, Wellcome J, Pooran C, Crousillat D, **Cain MA**, Louis JM. Factors associated with early readmission for postpartum hypertension. *AJOG Glob Rep*. 2024 Feb 28;4(2):100323. doi: 10.1016/j.xagr.2024.100323. PMID: 38919706; PMCID: PMC11197109.

Price CR, Kendle A, **Cain MA**. A Case of Acute Hypertriglyceridemia-Induced Pancreatitis in Pregnancy and Its Clinical Implications. *Case Rep Endocrinol*. 2024 Oct 10;2024:5896861. doi: 10.1155/2024/5896861. PMID: 39421549; PMCID: PMC11486530.

Nadeau C, Gonzalez JM, Cardy C, **Cain MA**, Crousillat D. It's Probably Just Heart Burn! A Case of Pregnancy-Associated Spontaneous Coronary Artery Dissection. *Adv Emerg Nurs J*. 2024 Nov 25. doi: 10.1097/TME.0000000000000550. Epub ahead of print. PMID: 39591634.

Published Abstracts

Cain, MA; Shah M; Downes, K; Bassaly, R; Mehta, S; Glazerman, L; Hoyte, L; Sobolewski, J; Solnik, MJ; Hart, S; Incidence of vaginal cuff dehiscence and urinary tract injury after total laparoscopic hysterectomy. Journal of Minimally Invasive Gynecology 2012:19 (6) S55

Cain, MA; Salemi JL; Tanner, JP; Mogos, M; Kirby, RS; Whiteman, VE; Salihu, HM. Timing of delivery of a gastroschisis affected pregnancy and its impact on perinatal outcomes and hospital costs. American Journal of Obstetrics & Gynecology 2014: 210 (1) S97

Cain, MA; Louis, JM; Whiteman, VE: Maternal methadone dose and neonatal outcomes. American Journal of Obstetrics & Gynecology 2014: 210 (1) S296

Cain, MA; Salemi JL; Tanner, JP; Whiteman, VE; Kirby, RS. Gastroschisis Delivery after 37 weeks is Associated with Improved Neonatal Respiratory Function and Outcomes. Reproductive Sciences March 2014; vol. 21, 3 suppl: T120.

Cain, MA; Salemi JL, Tanner JP, Kirby RS, Salihu HM, Louis JM. Pregnancy as a window to future health: maternal placental syndromes and short term cardiovascular disease risk. American Journal of Obstetrics & Gynecology 2015: 195

Cain, MA; Brumley J; Beauchamp W; Louis-Jacques A; Drerup M; Louis JM. A pilot study of cognitive behavioral therapy for insomnia delivered in pregnancy. Sleep 2016; 39. Abstract supplement.

Hoffman MS, Louis-Jacques A, Xiong Y, Camporesi E, Mangar D, **Cain M.** Experience with Nonemergent hysterectomy for placenta accreta. Proceedings of the 81st Annual Meeting of the SAAOG. January, 2019.

Hale, E; **Cain, MA:** COVID-19 and Sleep in Pregnancy. 2021 Annual Clinical and Scientific Meeting of American College of Obstetrics and Gynecology.

Pressman, K., Pooran, C., Wellcome, J. L., Crousillat, D., **Cain, M.**, & Louis, J. M. (2023). Blood pressure thresholds associated with postpartum preeclampsia readmissions. American Journal of Obstetrics and Gynecology, 228(1, Supplement), S672.

<https://doi.org/https://doi.org/10.1016/j.ajog.2022.11.1129>

Schenone, C., **Cain, A.**, Tsalatsanis, A., Kumar, A., Louis, JM., Crousillat, D. Differences In Myocardial Oxygen Consumption in Pregnancies Complicated by Chronic Hypertension and Hypertensive Disorders of Pregnancy. J Am Coll Cardiol. 2023 Mar, 81 (8_Supplement) 2227.

[https://doi.org/10.1016/S0735-1097\(23\)02671-2](https://doi.org/10.1016/S0735-1097(23)02671-2)

de Assis V, **Cain M**, Louis JM, Kendle A, Crousillat D. Effects of galactopoieses on post-partum dyslipidemia among obese women.

American Journal of Obstetrics and Gynecology. 2023;228(1, Supplement):S760-S1.
<https://doi.org/https://doi.org/10.1016/j.ajog.2022.11.1266>

de Assis, V., **Cain, M., Louis, J. M.**, Kendle, A., & Crousillat, D. (2023). Effects of galactopoieses on post-partum dyslipidemia among obese women. American Journal of Obstetrics and Gynecology, 228(1, Supplement), S760-S761.
<https://doi.org/https://doi.org/10.1016/j.ajog.2022.11.1266>

Schenone, C., **Cain, A.**, Edghill, J., Louis, J., Tanner, J., & Crousillat, D. R. (2024). PRECONCEPTION AND EARLY PREGNANCY RATE-PRESSURE PRODUCT AS PREDICTORS OF HYPERTENSIVE DISORDERS OF PREGNANCY. In Journal of the American College of Cardiology (Vol. 83, Issue 13, p. 2431). Elsevier BV. [https://doi.org/10.1016/s0735-1097\(24\)04421-8](https://doi.org/10.1016/s0735-1097(24)04421-8)

Schenone CV, **Ashley Cain M**, Schenone AL, Smith T, Tsalatsanis A, Louis JM, Crousillat DR. Changes in rate-pressure product associated with pregnancy. Am J Obstet Gynecol MFM. 2024 Mar 5;6(4):101338. doi: 10.1016/j.ajogmf.2024.101338. Epub ahead of print. PMID: 38453019.

Pressman, K., Wellcome, J., Pooran, C., Crousillat, D., **Cain, M. A.**, & Louis, J. M. (2024). Factors associated with early readmission for postpartum hypertension. In AJOG Global Reports (Vol. 4, Issue 2, p. 100323). Elsevier BV. <https://doi.org/10.1016/j.xagr.2024.100323>

Molly Monsour, Elliot Pressman, Katherine Pressman, Sara Hartnett-Wright, **Mary Cain**, Kunal Vakharia. Impact of decompressive craniectomy on labor management in pregnant women. 2024 CNS Annual Meeting.

Nadeau C, Gonzalez JM, Cardy C, **Cain MA**, Crousillat D. It's Probably Just Heart Burn! A Case of Pregnancy-Associated Spontaneous Coronary Artery Dissection. Adv Emerg Nurs J. 2024 Nov 25. doi: 10.1097/TME.0000000000000550. Epub ahead of print. PMID: 39591634.

Case Reports, Technical Notes, Letters

Cain MA, Whiteman VE, Buhari MA, Louis JM. Positive Interferon-Gamma Release Assay Leading to a Diagnosis of *Mycobacterium tuberculosis* Pericarditis in Pregnancy. Obstetrics and Gynecology. 2014

Müller R, Steffensen T, Krstić N, **Cain MA**. Report of a novel variant in the FAM111A gene in a fetus with multiple anomalies including gracile bones, hypoplastic spleen and hypomineralized skull. Am J Med Genet A.

2021 Mar 22. doi: 10.1002/ajmg.a.62182. Online ahead of print. PMID: 33750016

Akers, A., De Assis, V., Scoma, C., **Cain, M. A.**, & Crousillat, D. R. (2023). Patient-Prosthesis Mismatch in Pregnancy. *JACC.*, 27. <https://doi.org/10.1016/j.jaccas.2023.102073>

Monsour, M., Pressman, E., Pressman, K., **Cain, M. A.**, & Vakharia, K. (2024). Safety of labor, Valsalva maneuver, and neuraxial anesthesia for pregnant women after decompressive craniectomy: Case series and review of the literature. *International Journal of Gynaecology and Obstetrics : The Official Organ of the International Federation of Gynaecology and Obstetrics.* <https://doi.org/10.1002/ijgo.15894>

Non peer reviewed

Louis, JM and **Cain, MA.** Sleep pregnancy and your future health. <https://www.healthywomen.org/content/article/sleep-pregnancy-and-your-future-health>. 24 May 2017

Service

<u>National Committee</u>	2023
Online Abstract Reviewer	
2024 CREOG & APGO Annual Meeting	
	2021
Committee member	
ABOG Committee on standard setting in Maternal Fetal Medicine written examination	
	2021
Committee member	
ACGME maternal fetal medicine milestones committee	
	2021-
Director	2023
Resident forum	
Society for Maternal Fetal Medicine Annual meeting	
	2025
Cardio-Obstetrics Scientific Forum	
Society for Maternal Fetal Medicine Annual meeting Denver Colorado	

Committee member

Society for Maternal Fetal Medicine Communications committee 2016-
2019

ACGME Milestones – Focus Group Member

2023

Hospital Committees

Co-Chair

Maternal Morbidities review committee

Tampa General Hospital

2020-

Committee member

Special assessment sub committee

USF GME

2024-

Committee member

USFTPH Patient experience initiative

2024

State Physician lead

Florida perinatal Quality Collaborative

Hypertension in Pregnancy

Committee member

2024

RVU reallocation working group

University of South Florida

2018-
2020

Committee member

Maternal Morbidities review committee

Tampa General Hospital

2018-
2020

Committee member

Sepsis Committee

Tampa General Hospital

2015-
2018

Committee member and physician representative

Florida Perinatal Quality Collaborative

Hypertension in pregnancy initiate committee

Tampa General Hospital

2015-
2018

Committee member

Normal Birth Task Force

Tampa General Hospital

2005-
2006

President

Pediatric interest group

Medical College of Georgia School of Medicine

Augusta, Ga

2021-

Editorial Board Positions

Member, Editorial Board “Obstetrics and Gynecology”

Journal reviewer positions

Reviewer "Obstetrics and Gynecology"

2015-

Invited reviewer- "Journal of Perinatology"

2020-

Invited reviewer- "Journal of Gynecologic surgery"

Invited reviewer- "International Journal of Behavioral Medicine"

Invited Reviewer- "Behavioral Sleep Medicine"

2020-

Invited Reviewer- "Journal of Maternal Fetal and Neonatal

2020-

Medicine"

2019

Invited Reviewer "Sleep Medicine"

Reviewer "Ultrasound in Obstetrics and Gynecology"

2015

Society Memberships

Fellow, American Congress of Obstetricians and Gynecologists

Society for Maternal Fetal Medicine

2012-

Media Appearances:

"Zika virus in pregnancy"

WFLA Tampa News Channel 8

2016

"Zika virus in pregnancy"

WTSP Tampa News Channel 10

2016

"Zika virus in pregnancy"

NBC National Nightly News

2016

"Increasing cases of congenital Syphilis"

WTSP Tampa News Channel 10

2020

"Covid-19 in pregnancy"

WFLA Tampa News Channel 8

2020

"Covid-19 vaccines in pregnancy"

WFLA Tampa News Channel 8

2021

"Covid-19 vaccines in pregnancy"

Bay News 9 Tampa

2021

"Covid-19 vaccine safety in pregnancy"

WTSP Tampa News Channel 10

“Telehealth Postpartum Care”
WFLA Tampa News Channel 8

2021

Community Involvement

Tampa General Hospital White Coat Program

2019-

Co-president Davidson in Tampa Alumni Chapter

Students for Community Involvement,
Medical College of Georgia, Augusta GA

2015

Volunteer Counselor, Camp Rainbow,

2004-
2008

summer camp for pediatric cancer patients,
Camp Twin Lakes, Rutledge GA

2005

Publicity Chair, United Community Action,
Davidson College, Davidson NC