



Department of Obstetrics and Gynecology Research Priorities

PERINATAL SUBSTANCE USE DISORDERS

PRIORITIES: Models of Care – Collaborative care and Hub-and-Spokes; Evidence-based practice – medications for treatment of opioid use disorder; Integrated Care – Concurrent substance use and other psychiatric disorders

Publications:

Mullins N, Galvin SL, Ramage M, Gannon M, Lorenz K, Sager B, Coulson CC. Buprenorphine and naloxone versus buprenorphine for opioid use disorder in pregnancy: a cohort study. *J Addict Med.* 2020;14(3):185-192. DOI: 10.1097/ADM.0000000000000562

Galvin SL, Ramage M, Mazure E, Coulson CC. The association of cannabis use late in pregnancy with engagement and retention in perinatal substance use disorder care for opioid use disorder: a cohort comparison. *J Substance Abuse Treat.* 2020;117:108098. DOI: 10.1016/j.jsat.2020.108098

Alemu BT, Olayinka O, Young B, **Pressley-Byrd D**, Tate T, Beydoun HA. Patient and hospital characteristics of newborns with Neonatal Withdrawal Syndrome. *South Med J.* 2020;113(8):392-398. DOI:10.14423/SMJ.0000000000001130

Galvin SL, Ramage M, Leiner C, Sullivan MH, Fagan EB. A cohort comparison of differences between regional and Buncombe County patients of a comprehensive, perinatal substance use disorders program in Western North Carolina. *NC Med J.* 2020;81(3): 157-165. DOI: 10.18043/ncm.81.3.157

Coulson CC, Lorencz E, Rittenhouse K, Ramage M, Lorenz K, Galvin SL. Association of maternal buprenorphine or methadone dose with fetal growth indices and neonatal abstinence syndrome. *Am J Perinatol.* 2019. DOI: 10.1055/s-0039-1694729

Nathan A, Galvin SL, Coulson CCC, Ramage M, Mullins NH, Gannon M. Impact of an integrated, comprehensive perinatal substance use disorders program for an at-risk, rural population (Abstract). *Obstet Gynecol.* 2019;133:71S.

Lorenz K, Gannon M, Ramage M, Coulson CC, Wilson CG, Galvin SL. Psychotropic medications do not appear to increase NAS risk in women on MAT (Abstract). *Am J Obstet Gynecol.* 2019; 220(1):S224-S225.

Presentations:

Galvin SL, Ramage M, Coulson CC. *Perinatal cannabis use unrelated to illicit opioid use when prescribed OUD medications.* Poster presented at the ASAM annual conference. April 2020; Denver, CO.

Ramage M, Gannon M, Gurran L, Galvin SL, Warren J. *Multidisciplinary approach to perinatal care for patients with opiate use disorder.* Interactive Small Group Session presented at the annual meeting of CREOG & APGO. March 2019; New Orleans, LA.

Leiner C, Ostrach B, **Ramage M, Mullins N.** *Addressing patient fears in perinatal substance use treatment.* Abstract presented at the annual meeting of CREOG & APGO. March 2019; New Orleans, LA.

Invited Commentaries/Editorials:

Ramage M, Tak C, Goodman D, Johnson E, Barber C, Jones HE. Improving access to care through Advanced Practice Registered Nurses: focus on perinatal patients with opioid use disorder. *J Advanced Nurs.* 2020. DOI:10.1111/jan.14544

Stoltman JK, Momand A, Ramage M, Lander R, Johnson E, Jones HE. Women in the United States deserve opioid drug policies that improve not harm their health outcomes. *J Addict Dis.* 2020;7(3):1–8. DOI:10.24966/AAD-7276/100048.

Woodall T, **Ramage M**, LaBruyere JT, McLean W, Tak CR. Telemedicine services during COVID-19: considerations for medically underserved populations. *J Rural Health.* 2020. DOI:10.1111/jrh.12466

Pressley-Byrd D, Bartlett R. Harm reduction strategies: imperatives and implications for nurses. *J Psychosoc Nurs Men.* 2019;57(6):4-5. DOI:10.3928/02793695-20190430-02

Ramage M, Ostrach B, Fagan B, Coulson C. Stabilizing the mother-Infant dyad for better outcomes from OB to FM: caring for patients with perinatal opioid use disorder through the 4th trimester. *N C Med J.* 2018 May. 79:164-5. DOI:10.18043/ncm.79.3.164

Current Projects:

Tak C, **Ramage M**, Ostrach B, Jones H. Economic evaluation of a model of comprehensive care for PSUD
Byrd DP, Mullins N, Ramage R, Galvin SL, Coulson CC. Post-cesarean pain management for women maintained on buprenorphine

Galvin SL, Ramage M, Coulson CC. Association of type/dose of medication for OUD and cannabis use



Department of Obstetrics and Gynecology Research Priorities

MEDICAL EDUCATION

PRIORITIES: Evaluation of competencies, milestones, and procedures; Innovative curricula in residency

Research Publications:

Connolly AM, Goepfer A, Blanchard A, **Buys E**, Donnellan N, Amundsen CL, **Galvin SL**, Kenton K. myTIPReport and training for independent practice: a tool for real-time, work-place feedback for milestones and procedural skills. *J Grad Med Educ*. 2018;10(1):70-77. DOI:10.4300/JGME-D-17-00137.1

Schuler K, Maetzold E, **Buys E**, **Galvin SL**, Connolly AM. Describing surgical skills learning curves in OBGYN residency: a process using myTIPReport (Abstract). *Obstet Gynecol*. 2018;132:58S.

Latessa RA, Swendiman RA, **Parlier AB**, **Galvin SL**, Hirsh DA. Graduates' perceptions of learning affordances in Longitudinal Integrated Clerkships. *Acad Med*. 2017;92(9):1313-1319. DOI: 10.1097/ACM.0000000000001621

Connolly A, Donnellan N, Goepfert A, Blanchard A, **Buys E**, **Galvin SL**, et al. "Real-Time" feedback for milestones and procedural skills: a multi-center trial of "myTIPReport" (Abstract). *J Min Invasive Gynecol*. 2016; 23(7):S52-3.

Connolly A, Blanchard A, Goepfert A, Donnellan N, **Buys E**, Uribe R, Kenton K. Surgical skills feedback and myTIPReport: is there construct validity? *Obstet Gynecol*. 2017 Oct;130 Suppl 1:17S-23S. doi: 10.1097/AOG.0000000000002208.

Buys E, **Galvin SL**. Training costs in a surgical subspecialty (Abstract). *Obstet Gynecol*. 2016;128:51S.

Galvin SL, **Parlier AB**, **Martino E**, **Buys E**. Gender bias in nurse evaluations of residents in obstetrics and gynecology. *Obstet Gynecol*. 2015; 126(4):7S-12S. DOI: 10.1097/AOG.0000000000001044

Connolly AM, Hansen D, Schuler K, **Galvin SL**, Wolfe H. Immediate surgical skills feedback in the operating room: "Surf Carding." *J Grad Med Educ*. 2014;6(4):774-8. DOI: 10.4300/JGME-D-14-00132

Galvin SL, **Buys E**. Resident perceptions of service versus. clinical education. *J Grad Med Educ*. 2012;4(4):472-478 DOI: 10.4300/JGME-D-11-00170.1.

Curricula:

Shukla S, Saint-Hilaire L, Cabello-De la Garza A, Major E, Gold-Leighton K, Earley A, Wallace E, Ostrach B, **Ramage M**. Health equity, vulnerable populations, and addiction. *Addiction Curriculum for Family Medicine Residents & Faculty* [online module]. 2020. STFM.

Talib HJ, Karjane N, Teelin K, Abraham M, Holt S, Chelvakumar G, Dumont T, Huguélet PS, **Conner L**, Wheeler C, Fleming N. Resident education curriculum in pediatric and adolescent gynecology: The Short Curriculum 2.0. *J Pediatr Adolesc Gynecol*. 2018;31(2):71-76. DOI: 10.1016/j.jpag.2017.11.007.

Presentations:

Eanes A, **Buys E**, Lugo B, Payne L, **Galvin SL**, **Warren J**. *TVH training in residency: how many cases is enough?* Poster presented at the annual meeting of CREOG-APGO. 2019 Feb 27-Mar 2; New Orleans, LA.

Knowlson L, **Fan R**, **Warren J**, **Galvin SL**. *Evaluation of a revised, resident-led OB/GYN Journal Club curriculum.* Poster presented at the annual meeting of CREOG-APGO. 2018 Feb 28-Mar 3; National Harbor, MD.

Wang K, **Buys E**, **Ollendorff AT**, **Galvin SL**. *Perception of educational experiences across labor and delivery shifts.* Poster session presented at the annual meeting of CREOG-APGO. 2015 March 4-7; San Antonio, TX.

Ollendorff AT, **Buys E**, **Parlier AB**, **Galvin SL**. *Evaluation of a faculty night-float schedule in OB/GYN.* Poster session presented at the annual meeting of CREOG-APGO. 2015 March 4-7; San Antonio, TX.

Current Projects:

Knowlson LV, **Cline A**, **Galvin SL**, **Buys E**. Female pelvic medicine and reconstructive surgery training in residency and post-residency generalists' practice patterns: how much is enough?

Ramage M, **McAden D**, **Galvin SL**. Competency evaluation in a perinatal substance use program rotation

Galvin SL, **Chen D**, **Fan R**, **Knowlson LV**. Evaluation of the revised, coordinated resident-/faculty-led Journal Club curriculum



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MATERNAL-FETAL MEDICINE AND HIGH-RISK OB

PRIORITIES: Evidence-based care in high-risk obstetrics

Multisite Research Publications:

Rouse TB, DeJoseph J, **Ollendorff AT**. Bringing depth and meaning to perinatal quality improvement by partnering with patients. *Clin Obstet Gynecol*. 2019;62(3):528-538. DOI: 10.1097/GRF.0000000000000469.

Stringer EM; Vladutiu CJ; Manuck T; Verbiest S; **Ollendorff A**; Stringer JS; Menard MK. 17-Hydroxyprogesterone caproate (17OHP-C) coverage among eligible women delivering at 2 North Carolina hospitals in 2012 and 2013: A retrospective cohort study. *Am J Obstet Gynecol*. 2016(1):105.e1-105.e12, 2016 07. DOI: 10.1016/j.ajog.2016.01.180

Tita AT, Szychowski JM, Boggess K, Saade G, Longo S, Clark E, Esplin S, Cleary K, Wapner R, **Letson K**, Owens M, Abramovici A, Ambalavanan N, Cutter G, Andrews W; C/SOAP Trial Consortium. Adjunctive azithromycin prophylaxis for cesarean delivery. *N Engl J Med*. 2016;375(13):1231-41. DOI: 10.1056/nejmoa1602044

Gyamfi-Bannerman C, Thom EA, Blackwell SC, et al. Antenatal betamethasone for women at risk for late preterm delivery. *N Engl J Med*. 2016;374(14):1311-1320. DOI:10.1056/NEJMoa1516783

Edelman EA, Lin BK, Doksum T, Drohan B, Edelson V, Dolan SM, Hughes K, O'Leary J, Vasquez L, Copeland S, **Galvin SL**, Degroat N, Pardanani S, Gregory Feero W, Adams C, Jones R, Scott J. Implementation of an electronic genomic and family health history tool in primary prenatal care. *Am J Med Genetics Part C: Sem Med Genetics*; 2014; 166C:34-44. DOI: 10.1002/ajmg.c.31389

Edelman EA, Lin BK, Doksum T, Drohan B, Edelson V, Dolan SM, Hughes K, O'Leary J, Vasquez L, Copeland S, **Galvin SL**, Degroat N, Pardanani S, Gregory Feero W, Adams C, Jones R, Scott J. Evaluation of a novel electronic genetic screening and clinical decision support tool in prenatal clinical settings. *Matern Child Health J*. 2014;18(5):1233-45. DOI: 10.1007/s10995-013-1358-y

Single Site Research Publications:

Runkle J, Sugg M, Boase D, **Galvin SL, Coulson CC**. Use of wearable sensors for pregnancy health and environmental monitoring: Descriptive findings from the perspective of patients and providers. *Digital Health*. 2019. DOI:10.1177/2055207619828220

Konitzer H, Fort A, **Galvin SL, Coulson CC**. Antenatal corticosteroids for lung maturity: neonatal vs obstetric data and improvement opportunities (Abstract). *Obstet Gynecol*. 2018;131 (Suppl 1):40S.

Gardner B, Parlier AB, Galvin SG, Coulson CC. 376: Disease incidence and birth outcomes after implementation of broad-based intake screen for diabetes in pregnancy (Abstract). *Am J Obstet Gynecol*. 2014; 210(1):S190-S191.

Gardner B, Galvin S, Coulson CC. 248: Use of a broad-based intake screen for diabetes in pregnancy (Abstract). *Am J Obstet Gynecol*. 2013; 208(1, Suppl);S113.

Invited Commentaries/Editorials:

Coulson CC, Galvin SL. Navigating perinatal care in western North Carolina: access for patients and providers. *NC Med J*. 2020;81(4):41-44. DOI: 10.18043/ncm.81.1.41

Current Projects:

Sullivan MH, Lorenz K, et al. A comparison of obstetrical outcomes and patient travel patterns before and after closure of a rural labor and delivery unit in North Carolina



Department of Obstetrics and Gynecology Research Priorities

HEALTH EQUITY

PRIORITIES: Health inequities in maternal and infant health; Equity in prevention and treatment

Multisite Research Publications:

Puia-Dumitrescu M, Greenberg RG, Younge N, Bidegain M, Cotten CM, McCaffrey M, Murtha A, Gutierrez S, DeJoseph J, Cochran KM, **Ollendorff A**. Disparities in the use of antenatal corticosteroids among women with hypertension in North Carolina. *J Perinatol*. 2019. doi: 10.1038/s41372-019-0555-y.

Presentations:

Knowlson L, Galvin SL, Buys E. *Health disparities in the surgical management of abnormal uterine bleeding*. Paper presented at the annual meeting of NC Ob/Gyn Society meeting. 2019 April; Raleigh, NC.

Buys E, Byrn M, Warren J, Coulson CC, Galvin SL, Fromewick J, Della Valle P, Hill L. *Inequities in prenatal care*. Papers/posters presented at MAHEC OB/GYN Grand Rounds and MAHEC Resident Research Day.

Invited Commentaries/Editorials:

Murphy AB. The power of connection, trust, and voice: perinatal support through community. *NC Med J*. 2020;81(1):58-59.

Current Projects:

Gist B, Murphy A, Adams J. Implicit bias training via simulation with standardized patients

Knowlson L, Desmond L, Galvin SL. Inequities in surgical management of AUB: patient and disease characteristics

Godar E, Knowlson L, Fan R, Galvin SL. Racial/ethnic inequities: cervical cancer screening

Godar E, Knowlson L, Fan R, Galvin SL. Racial/ethnic inequities: management of abnormal screen for cervical cancer