

2021 Publications of the Department of Obstetrics and Gynecology

1. Erekson E, Menefee S, Whitworth RE, Amundsen CL, Arya LA, Komesu YM, Ferrando CA, Zyczynski HM, Sung VW, Rahn DD, Tan-Kim J, Mazloomdoost D, Gantz MG, Richter HE; Eunice Kennedy Shriver NICHD Pelvic Floor Disorders Network (PFDN). The Design of a Prospective Trial to Evaluate the Role of Preoperative Frailty Assessment in Older Women Undergoing Surgery for the Treatment of Pelvic Organ Prolapse: The FAST Supplemental Trial. *Female Pelvic Med Reconstr Surg*. 2021 Jan 1;27(1):e106-e111. Epublied: N/A. PMID: 32217922
2. Rahn DD, Richter HE, Sung VW, Larsen WI, Hynan LS. Design of a Randomized Clinical Trial of Perioperative Vaginal Estrogen Versus Placebo With Transvaginal Native Tissue Apical Prolapse Repair (Investigation to Minimize Prolapse Recurrence of the Vagina using Estrogen: IMPROVE). *Female Pelvic Med Reconstr Surg*. 2021 Jan 1;27(1):e227-e233. Epublied: N/A. PMID: 32541299
3. Jackson LA, Hare AM, Carrick KS, Ramirez DMO, Hamner JJ, Corton MM. Reply to Comment on: Anatomy, histology, and nerve density of clitoris and associated structures: clinical applications to vulvar surgery. *Am J Obstet Gynecol*. 2021 Jan;224(1):124-125. Epublied: 2020 Sep 2. PMID: 32888919
4. Ferrante KL, Gantz MG, Sridhar A, Smith A, Rahn DD, Ellington DR, Weidner AC, Wohlrab K, Mazloomdoost D, Moalli P, Lukacz ES; NICHD Pelvic Floor Disorders Network. Do Women Who Self-report More Exercise Have Increased Rates of Symptomatic Stress Urinary Incontinence After Midurethral Slings? *Female Pelvic Med Reconstr Surg*. 2021 Jan 1;27(1):e202-e207. Epublied: NA. PMID: 32898050
5. Evans M, Lawson A, Jarin JD, Wilson EE. Squamous Carcinoma of the Cervix in a 15-Year-Old with Congenital HIV: A Case Report. *J Pediatr Adolesc Gynecol*. 2021 Apr;34(2):234-237. Epublied: 2021 Sep 8. PMID: 32916302
6. Khulpateea BR, Paulson A, Carlson M, Miller DS, Lea J. Stage IVA cervical cancer: outcomes of disease related complications and treatment. *Int J Gynecol Cancer*. 2021 Apr;31(4):518-523. Epublied: 2020 Sep 12. PMID: 32920534
7. Yule CS, Holcomb DS, Kraus AC, Brown CEL, McIntire DD, Nelson DB. Cholestasis: a prospective study of perinatal outcomes and time to symptom improvement. *Am J Perinatol*. 2021 Apr;38(5):414-420. Epublied: 2020 Sep 24. PMID: 32971564
8. Rodriguez AN, Patel S, Macias D, Morgan J, Kraus A, Spong CY. Timing of emergency postpartum hospital visits in the fourth trimester. *Am J Perinatol*. 2021 Mar;38(4):319-325. Epublied: 2020 Sep 29. PMID: 32992354

9. Nelson DB, McIntire DD, Leveno KJ. A chronicle of the 17-alpha hydroxyprogesterone caproate story to prevent recurrent preterm birth. *Am J Obstet Gynecol*. 2021 Feb;224(2):175-186. Epublised: 2020 Oct 6. PMID: 33035472
10. Jelovsek JE, Gantz MG, Lukacz E, Sridhar A, Zyczynski H, Harvie HS, Dunivan G, Schaffer J, Sung V, Varner RE, Mazloomdoost D, Barber MD; Eunice Kennedy Shriver National Institute of Child Health and Human Development Pelvic Floor Disorders Network. Success and failure are dynamic, recurrent event states after surgical treatment for pelvic organ prolaps. *Am J Obstet Gynecol*. 2021 Apr;224(4):362.e11. Epublised: 2020 Oct 8. PMID: 33039390
11. Happe SK, Yule CS, Spong CY, Wells CE, Dashe JS, Moschos E, Rac MWF, McIntire DD, Twickler DM. Predicting placenta accreta spectrum: validation of the placenta accreta index. *J Ultrasound Med*. 2021 Aug;40(8):1523-1532. Epublised: 2020 Oct 14. PMID: 33058255
12. Balachandra S, Kusin SB, Lee R, Blackwell JM, Tiro JA, Cowell LG, Chiang CM, Wu SY, Varma S, Rivera EL, Mayo HG, Ding L, Sumer BD, Lea JS, Bagrodia A, Farkas LM, Wang R, Fakhry C, Dahlstrom KR, Sturgis EM, Day AT. Blood-based biomarkers of human papillomavirus-associated cancers: A systematic review and meta-analysis. *Cancer*. 2021 Mar 15;127(6):850-864. Epublised: 2020 Dec 3. PMID: 33270909
13. Rivera-Colon G, Chen H, Molberg K, Niu S, Strickland AL, Castrillon DH, Carrick K, Gwin K, Lea J, Zheng W, Lucas E. PD-L1 Expression in Endocervical Adenocarcinoma: Correlation With Patterns of Tumor Invasion, CD8+ Tumor-infiltrating Lymphocytes, and Clinical Outcomes. *Am J Surg Pathol*. 2021 Jun 1;45(6):742-752. Epublised: N/A. PMID: 33298732
14. Dillon SJ, Kleinmann W, Seasey A, Ames R, Dyess-Nugent P, McIntire DD, Suen E, Nelson DB. How personality affects teamwork: a study in multidisciplinary obstetrical simulation. *Am J Obstet Gynecol MFM*. 2021 Mar;3(2):100303. Epublised: 2020 Dec 28. PMID: 33383231
15. Zierden H, Ortiz JI, DeLong K, Yu J, Li G, Dimitrion P, Bensouda S, Laney V, Bailey A, Anders NM, Scardina M, Mahendroo M, Mesiano S, Burd I, Wagner G, Hanes J, Ensign LM. Enhanced drug delivery to the reproductive tract using nanomedicine reveals new therapeutic options for prevention of preterm birth. *Sci Transl Med*. 2021 Jan 13;13(576):eabc6245. Epublised: N/A. PMID: 33441428
16. Xac MC, Jetelina KK, Jarin J, Wilson E. Benign, Borderline, and Malignant Pediatric Adnexal Masses: A 10-Year Review. *J Pediatr Adolesc Gynecol*. 2021 Aug;34(4):454-461. Epublised: 2021 Jan 14. PMID: 33453397
17. Palavalli Parsons LH, Challa S, Gibson BA, Nandu T, Stokes MS, Huang D, Lea JS, Kraus WL. Identification of PARP-7 substrates reveals a role for MARylation in microtubule control in ovarian cancer cells. *Elife*. 2021 Jan 21;10:e60481. Epublised: N/A. PMID: 33475085
18. Shi W, Sun C, Chen Q, Ye M, Niu J, Meng Z, Bukulmez O, Chen M, Teng X. Association between ambient air pollution and pregnancy outcomes in patients undergoing in vitro fertilization in Shanghai, China: A retrospective cohort study. *Environ Int*. 2021 Mar;148:106377. Epublised: 2021 Jan 19. PMID: 33482441
19. Aguilar M, Zhang H, Zhang M, Cantarell B, Sahoo SS, Li HD, Cuevas IC, Lea J, Miller DS, Chen H, Zheng W, Gagan J, Lucas E, Castrillon DH. Serial genomic analysis of endometrium supports the existence of histologically indistinct endometrial cancer precursors. *J Pathol*. 2021 May;254(1):20-30. Epublised: 2021 Mar 9. PMID: 33506979

20. Nelson DB, Byrne JJ, Cunningham FG. Acute fatty liver of pregnancy. *Obstet Gynecol.* 2021 Mar 1;137(3):535-546. Epublished: N/A. PMID: 33543900
21. Armstrong DK, Alvarez RD, Bakkum-Gamez JN, Barroilhet L, Behbakht K, Berchuck A, Chen LM, Cristea M, DeRosa M, Eisenhauer EL, Gershenson DM, Gray HJ, Grisham R, Hakam A, Jain A, Karam A, Konecny GE, Leath CA, Liu J, Mahdi H, Martin L, Matei D, McHale M, McLean K, Miller DS, O'Malley DM, Percac-Lima S, Ratner E, Remmenga SW, Vargas R, Werner TL, Zsiros E, Burns JL, Engh AM. Ovarian Cancer, Version 2.2020, NCCN Clinical Practice Guidelines in Oncology. *J Natl Compr Canc Netw.* 2021 Feb 2;19(2):191-226. Epublished: N/A. PMID: 33545690
22. Adhikari EH, Spong CY. COVID-19 vaccination in pregnant and lactating women. *JAMA.* 2021 Mar 16;325(11):1039-1040. Epublished: N/A. PMID: 33555297
23. Holloway SB, Colon GR, Zheng W, Lea JS. Tumor Necrotic Debris and High Nuclear Grade: Newly Identified High-risk Factors for Early-stage Endocervical Adenocarcinoma. *Am J Clin Oncol.* 2021 Apr 1;44(4):162-168. Epublished: N/A. PMID: 33606367
24. Twickler DM, Yule CS, Spong CY. Predicting placenta accreta spectrum: validation of the placenta accreta index. *J Ultrasound Med.* 2021 Dec;40(12):2789. Epublished: 2021 Feb 21. PMID: 33615537
25. Yadav GS, Gaddam N, Rahn DD. A Comparison of Perioperative Outcomes, Readmission, and Reoperation for Sacrospinous Ligament Fixation, Uterosacral Ligament Suspension, and Minimally Invasive Sacrocolpopexy. *Female Pelvic Med Reconstr Surg.* 2021 Mar 1;27(3):133-139. Epublished: N/A. PMID: 33620894
26. Hendrickson WK, Amundsen CL, Rahn DD, Meyer I, Bradley MS, Smith AL, Myers DL, Jelovsek JE, Lukacz ES. Comparison of 100 U With 200 U of Intradetrusor OnabotulinumToxinA for Nonneurogenic Urgency Incontinence. *Female Pelvic Med Reconstr Surg.* 2021 Mar 1;27(3):140-146. Epublished: N/A. PMID: 33620895
27. Merritt MA, Strickler HD, Hutson AD, Einstein MH, Rohan TE, Xue X, Sherman ME, Brinton LA, Yu H, Miller DS, Ramirez NC, Lankes HA, Birrer MJ, Huang GS. Sex Hormone, Insulin and Insulin-like Growth Factor in Recurrence of High Stage Endometrial Cancer (NRG Oncology/GOG0210). *Cancer Epidemiol Biomarkers Prev.* 2021 Apr;30(4):719-726. Epublished: 2021 Feb 23. PMID: 33622671
28. Hathout L, Wang Y, Wang Q, Vergalasova I, Elshaikh MA, Dimitrova I, Damast S, Li JY, Fields EC, Beriwal S, Keller A, Kidd EA, Usoz M, Jolly S, Jaworski E, Leung EW, Donovan E, Taunk NK, Chino J, Natesan D, Russo AL, Lea JS, Albuquerque KV, Lee LJ. A Multi-Institutional Analysis of Adjuvant Chemotherapy and Radiation Sequence in Women With Stage IIIC Endometrial Cancer. *Int J Radiat Oncol Biol Phys.* 2021 Aug 1;110(5):1423-1431. Epublished: 2021 Mar 5. PMID: 33677053
29. Hill AJ, Balgobin S, Mishra K, Jeppson PC, Wheeler T 2nd, Mazloomdoost D, Anand M, Ninivaggio C, Hamner J, Bochenska K, Mama ST, Balk EM, Corton MM, Delancey J; Society of Gynecologic Surgeons Pelvic Anatomy Group. Recommended standardized anatomic terminology of the posterior female pelvis and vulva based on a structured medical literature review. *Am J Obstet Gynecol.* 2021 Aug;225(2):169.e1-169.e16. Epublished: 2021 Mar 9. PMID: 33705749

30. Chamgers CD, Krishnan JA, Alba L, Albano JD, Bryant AS, Carver M, Cohen LS, Gorodetsky E, Hernandez-Diaz S, Honein MA, Jones BL, Murray RK, Namazy JA, Sahin L, Spong CY, Vasisht KP, Watt K, Wurst KE, Yao L, Schatz M. The safety of asthma medications during pregnancy and lactation: clinical management and research priorities. *J Allergy Clin Immunol*. 2021 Jun;147(6):2009-2020. Epublished: 2021 Mar 10. PMID: 33713765
31. Yule CS, Lewis MA, Do QN, Xi Y, Happe SK, Spong CY, Twickler DM. Transvaginal color mapping ultrasound in the first trimester predicts placenta accreta spectrum: a retrospective cohort study. *J Ultrasound Med*. 2021 Dec;40(12):2735-2743. Epublished: 2021 Mar 16. PMID: 33724510
32. Khan AA, Furey EA, Bailey AA, Xi Y, Schindel DT, Santiago-Muñoz PC, Twickler DM. Fetal liver and lung volume index of neonatal survival with congenital diaphragmatic hernia. *Pediatr Radiol*. 2021 Aug;51(9):1637-1644. Epublished: 2021 Mar 29. PMID: 33779798
33. Dillon SJ, Nelson DB, Spong CY, McInire DD. Forceps and episiotomy: do they go hand in hand or should they go their separate ways? *Am J Obstet Gynecol MFM*. 2021 Jul;3(4):100370. Epublished: 2021 Apr 5. PMID: 33831590
34. Duryea EL, Adhikari EH, Ambia A, Spong C, McIntire D, Nelson DB. Comparison between in-person and audio-only virtual prenatal visits and perinatal outcomes. *JAMA Netw Open*. 2021 Apr 1;4(4):e215854. Epublished: N/A. PMID: 33852002
35. Leon RL, Mir IN, Herrera CL, Sharma K, Spong CY, Twickler DM, Chalak LF. Neuroplacentology in congenital heart disease: placental connection to neurodevelopmental outcomes. *Pediatr Res*. 2021 Apr 16;doi: 10.1038/s41390-021-01521-7. Epublished: On line ahead of print. PMID: 33864014
36. Conway CK, Varghese A, Mahendroo M, Miller KS. The role of biaxial loading on smooth muscle contractility in the nulliparous murine cervix. *Ann Biomed Eng*. 2021 Aug;49(8):1874-1887. Epublished: 2021 Apr 20. PMID: 33880630
37. Zofkie AC, Fomina YY, Roberts SW, McIntire DD, Nelson DB, Adhikari EH. Effectiveness of Chlamydia trachomatis expedited partner therapy in pregnancy. *Am J Obstet Gynecol*. 2021 Sep;225(3):325.e1-325.e7. Epublished: 2021 Apr 22. PMID: 33894150
38. Nelson DB, Spong CY. Editorial: Initiatives to reduce cesarean delivery rates for low-risk first births. *JAMA*. 2021 Apr 27;325(16):1616-1617. Epublished: N/A. PMID: 33904887
39. Heyward J, Lolic M, Spong C, Atkins D, Pennello G, Varadhan R. Assessing and communicating heterogeneity of treatment effects for patient subpopulations: keynote and panel discussion on communicating heterogeneous treatment effects across populations. *Pharm Stat*. 2021 Sep;20(5):965-978. Epublished: 2021 May 4. PMID: 33942971
40. Wang H, Tang X, Bukulmez O, Deng C, Yu Q, Zhou Y, Sun Z, Zhen J, Wang X, Liu M. Single-dose administration of a short-acting gonadotropin-releasing hormone agonist does not affect cycle outcome in frozen-thawed embryo transfer cycles. *J Int Med Res*. 2021 May 7;49(5):3000605211012247. Epublished: N/A. PMID: 33947255
41. Zyczynski HM, Arya LA, Lukacz ES, Richter HE, Rahn DD, Sung VW, Visco AG, Shaffer A, Jelovsek JE, Rogers R, Mazloomdoost D, Gantz MG; Eunice Kennedy Shriver NICHD Pelvic Floor Disorders Network (PFDN). Design of a Randomized Controlled Trial of Percutaneous Posterior

Tibial Nerve Stimulation for the Treatment of Refractory Fecal Incontinence in Women: The NeurOmodulaTion for Accidental Bowel Leakage Study. *Female Pelvic Med Reconstr Surg*. 2021 Dec 1;27(12):726-734. Epublished: N/A. PMID: 33950027

42. Fox KA, Lokken EM, Reed SD, Rahn DD. Evaluation of systemic estrogen for preventing urinary tract infections in postmenopausal women. *Menopause*. 2021 May 10;28(7):836-844. Epublished: NA. PMID: 33973539
43. Kim-Fine S, Antosh DD, Balk EM, Meriwether KV, Kanter G, Dieter AA, Mamik MM, Good M, Singh R, Alas A, Foda M, Rahn DD, Rogers RG. Relationship of postoperative vaginal anatomy and sexual function: a systematic review with meta-analysis. *Int Urogynecol J*. 2021 Aug;32(8):2125-2134. Epublished: 2021 May 14. PMID: 33988785
44. Roa C, Du Le VN, Mahendroo M, Saytashev I, Ramella-Roman JC. Auto-detection of cervical collagen and elastin in Mueller matrix polarimetry microscopic images using K-NN and Semantic Segmentation classification. *Biomed Opt Express*. 2021 Mar 23;12(4):2236-2249. Epublished: 2021 Apr 1 eCollection. PMID: 33996226
45. Pedersen R, Chen J, Kho KA. Peritoneal and Intestinal Ink Stains from Endoscopic Tattooing Encountered during Gynecologic Surgery. *J Minim Invasive Gynecol*. 2021 Oct;28(10):1669-1670. Epublished: 2021 May 17. PMID: 34010695
46. Kong P, Yin M, Tang C, Zhu X, Bukulmez O, Chen M, Teng X. Effects of Early Cumulus Cell Removal on Treatment Outcomes in Patients Undergoing In Vitro Fertilization: A Retrospective Cohort Study. *Front Endocrinol (Lausanne)*. 2021 May 7;12:669507. Epublished: eCollection 2021. PMID: 34025582
47. Shen WJ , Lu YX, Liu X , Liu JX, Zhang YH, Zhao Y, Niu K, Wang WY, Wang QY, Schaffer J. Effectiveness of abdominal minimal incision sacrocolpopexy for advanced pelvic organ prolapse [Article in Chinese]. *Zhonghua Fu Chan Ke Za Zhi (Clin J Obstet Gynecol)*. 2021 May 25;56(5):328-334. Epublished: N/A. PMID: 34034419
48. Dillon SJ, Kleinmann W, Fomina Y, Werner B, Schultz S, Klucsarits S, Moreno W, Butsko A, McIntire DD, Nelson DB. Does simulation improve clinical performance in management of postpartum hemorrhage? *Am J Obstet Gynecol*. 2021 Oct;225(4):435.e1-435.e8. Epublished: 2021 May 28. PMID: 34052191
49. Antosh DD, Dieter AA, Balk EM, Kanter G, Kim-Fine S, Meriwether KV, Mamik MM, Good MM, Singh R, Alas A, Foda MA, Rahn DD, Rogers RG. Sexual function after pelvic organ prolapse surgery: a systematic review comparing different approaches to pelvic floor repair. *Am J Obstet Gynecol*. 2021 Nov;225(5):475.e1-475.e19. Epublished: 2021 Jun 2. PMID: 34087227
50. Martin RB, Duryea EL, Ambia A, Ragsdale A, McIntire D, Wells CE, Spong CY, Dashe JS, Nelson DB. Congenital malformation risk according to hemoglobin A1c values in a contemporary cohort with pregestational diabetes. *Am J Perinatol*. 2021 Oct;38(12):1217-1222. Epublished: 2021 Jun 4. PMID: 34087946
51. Jiao Z, Bukulmez O. Potential roles of experimental reproductive technologies in infertile women with diminished ovarian reserve. *J Assist Reprod Genet*. 2021 Oct; 38(10):2507-2517. Epublished: 2021 Jun 7. PMID: 34100154

52. Suarez JD, Alvarez KS, Anderson S, King H, Kirkpatrick E, Harms M, Martin R, Adhikari E. Decreasing Chlamydial reinfections in a female urban population. *Sex Transm Dis*. 2021 Dec 1;48(12):919-924. Epublished: N/A. PMID: 34117187
53. Matulevicius SA, Kho KA, Reisch J, Yin H. Academic Medicine Faculty Perceptions of Work-Life Balance Before and Since the COVID-19 Pandemic. *JAMA Netw Open*. 2021 Jun 1;4(6):e2113539. Epublished: N/A. PMID: 34129021
54. St Laurent JD, Lin LH, Owen DM, Maestà I, Castaneda A, Hasselblatt KT, Goldstein DP, Horowitz NS, Berkowitz RS, Elias EM. Loss of Selenoprotein Iodothyronine Deiodinase 3 Expression Correlates with Progression of Complete Hydatidiform Mole to Gestational Trophoblastic Neoplasia. *Reprod Sci*. 2021 Nov;28(11):3200-3211. Epublished: 2021 Jun 15. PMID: 34129219
55. Smith MJ, Lee J, Brodsky AL, Figueroa MA, Stamm MH, Giard A, Luker N, Friedman S, Huncke T, Jain SK, Pothuri B. Optimizing Robotic Hysterectomy for the Patient Who Is Morbidly Obese with a Surgical Safety Pathway. *J Minim Invasive Gynecol*. 2021 Dec;28(12):2052-2059.e3. Epublished: 2021 Jun 15. PMID: 34139329
56. Jelovsek JE, Gantz MG, Lukacz ES, Zyczynski HM, Sridhar A, Kery C, Chew R, Harvie HS, Dunivan G, Schaffer J, Sung V, Varner RE, Mazloomdoost D, Barber MD; Eunice Kennedy Shriver National Institute of Child Health and Human Development Pelvic Floor Disorders Network. Subgroups of failure after surgery for pelvic organ prolapse and associations with quality of life outcomes: a longitudinal cluster analysis. *Am J Obstet Gynecol*. 2021 Nov; 225(5):504.e1-504.e22. Epublished: 2021 Jun 19. PMID: 34157280
57. Zofkie AC, Adhikari EH. Reply: Regarding "Effectiveness of Chlamydia trachomatis expedited partner therapy in pregnancy". *Am J Obstet Gynecol*. 2021 Oct;225(4):472-473. Epublished: 2021 Jun 26. PMID: 34186066
58. Davidson ERW, Alam PA, Byrnes JN, Bochenska K, Florian-Rodriguez M, Carter-Brooks CM, Myer ENB, Tefera EA, Good MM, Gutman RE. Perioperative outcomes following pelvic floor reconstruction in women with hereditary disorders of connective tissue: a retrospective cohort study. *Int Urogynecol J*. 2021 Aug;32(8):2135-2142. Epublished: 2021 Jul 2. PMID: 34213599
59. Levinson K, Beavis AL, Purdy C, Rositch AF, Viswanathan A, Wolfson AH, Kelly MG, Tewari KS, McNally L, Guntupalli SR, Ragab O, Lee YC, Miller DS, Huh WK, Wilkinson KJ, Spirtos NM, Van Le L, Casablanca Y, Holman LL, Waggoner SE, Fader AN. Beyond Sedlis-A novel histology-specific nomogram for predicting cervical cancer recurrence risk: An NRG/GOG ancillary analysis. *Gynecol Oncol*. 2021 Sep;162(3):532-538. Epublished: 2021 Jul 1. PMID: 34217544
60. Holcomb DS, Pengetnze Y, Steele A, Karam A, Spong C, Nelson DB. Geographic barriers to prenatal care access and their consequences. *Am J Obstet Gynecol MFM*. 2021 Sep;3(5):100442. Epublished: 2021 Jul 8. PMID: 34245930
61. Kho KA, Chen JS, Halvorson LM. Diagnosis, Evaluation, and Treatment of Adenomyosis. *JAMA*. 2021 Jul 13;326(2):177-178. Epublished: N/A. PMID: 34255015
62. Hawkins JS, Wells CE, Casey BM, McIntire DD, Leveno KJ. Nifedipine for acute tocolysis of preterm labor: a placebo-controlled randomized trial. *Obstet Gynecol*. 2021 Jul 1;138(1):73-78. Epublished: N/A. PMID: 34259466

63. Capelouto S, Evans M, Shannon J, Jetelina K, Bukulmez O, Carr B. Specialist physicians' referral behavior regarding preimplantation genetic testing for single-gene disorders: Is there room to grow? *F S Rep*. 2021 Mar 11;2(2):215-223. Epublished: N/A. PMID: 34278357
64. Nallasamy S, Palacios HH, Setlem R, Caraballo MC, Li K, Cao E, Shankaran M, Hellerstein M, Mahendroo M. Transcriptome and proteome dynamics of cervical remodeling in the mouse during pregnancy. *Biol Reprod*. 2021 Nov 15;105(5):1257-1271. Epublished: N/A. PMID: 34309663
65. Challa S, Khulpateea BR, Nandu T, Camacho CV, Ryu KW, Chen H, Peng Y, Lea JS, Kraus WL. Ribosome ADP-ribosylation inhibits translation and maintains proteostasis in cancers. *Cell*. 2021 Aug 19;184(17):4531-4546. Epublished: 2021 Jul 26. PMID: 34314702
66. Lee HR, Saytashev I, Du Le VN, Mahendroo M, Ramella-Roman J, Novikova T. Mueller matrix imaging for collagen scoring in mice model of pregnancy. *Sci Rep*. 2021 Aug 2;11(1):15621. Epublished: N/A. PMID: 34341418
67. Rodriguez AN, Holcomb D, Fleming E, Faucher MA, Dominguez J, Corona R, McIntire D, Nelson DB. Improving access to perinatal mental health services: the value of on-site resources. *Am J Obstet Gynecol MFM*. 2021 Nov;3(6):100456. Epublished: 2021 Aug 10. PMID: 34384907
68. Chu H, Sacharidou A, Nguyen A, Li C, Chambliss KL, Salmon JE, Shen Y-M, Lo J, Leone GW, Herz J, Hui DY, Marciano DK, Abrahams VM, Natale BV, Montalbano AP, Xiao S, Xu L, Natale DR, Shaul PW, Mineo C. Protein phosphatase 2A activation via ApoER2 in trophoblasts drives preeclampsia in mouse model of the antiphospholipid syndrome. *Circ Res*. 2021 Sep 17;129(7):735-750. Epublished: 2021 Aug 18. PMID: 34404233
69. Jayyosi C, Lee N, Madhukaran SP, Nallasamy S, Mahendroo M, Myers K. The swelling behavior of the mouse cervix: changing kinetics with osmolarity and the role of hyaluronan in pregnancy. *Acta Biomater*. 2021 Nov;35:414-424. Epublished: 2021 Aug 17. PMID: 34411755
70. Abu-Rustum NR, Yashar CM, Bradley K, Campos SM, Chino J, Chon HS, Chu C, Cohn D, Crispens MA, Damast S, Diver E, Fisher CM, Frederick P, Gaffney DK, George S, Giuntoli R, Han E, Howitt B, Huh WK, Lea J, Mariani A, Mutch D, Nekhlyudov L, Podoll M, Remmenga SW, Reynolds RK, Salani R, Sisodia R, Soliman P, Tanner E, Ueda S, Urban R, Wethington SL, Wyse E, Zanotti K, McMillian NR, Motter AD. NCCN Guidelines® Insights: Uterine Neoplasms, Version 3.2021. *J Natl Compr Canc Netw*. 2021 Aug 1;19(8):888-895. Epublished: N/A. PMID: 34416706
71. Oonk MHM, Slomovitz B, Baldwin PJW, van Doorn HC, van der Velden J, de Hullu JA, Gaarenstroom KN, Slangen BFM, Vergote I, Brännström M, van Dorst EBL, van Driel WJ, Hermans RH, Nunns D, Widschwendter M, Nugent D, Holland CM, Sharma A, DiSilvestro PA, Mannel R, Boll D, Cibula D, Covens A, Provencher D, Runnebaum IB, Luesley D, Ellis P, Duncan TJ, Tjiong MY, Cruickshank DJ, Kjølhede P, Levenback CF, Bouda J, Kieser KE, Palle C, Spirtos NM, O'Malley DM, Leitao MM, Geller MA, Dhar K, Asher V, Tamussino K, Tobias DH, Borgfeldt C, Lea JS, Bailey J, Lood M, Eyjolfssdottir B, Attard-Montalto S, Tewari KS, Manchanda R, Jensen PT, Persson P, Van Le L, Putter H, de Bock GH, Monk BJ, Creutzberg CL, van der Zee AGJ. Radiotherapy Versus Inguinofemoral Lymphadenectomy as Treatment for Vulvar Cancer Patients With Micrometastases in the Sentinel Node: Results of GROINSS-V II. *J Clin Oncol*. 2021 Nov 10;39(32):3623-3632. Epublished: 2021 Aug 25. PMID: 34432481

72. Herrera CL, Bowman ME, McIntire DD, Nelson DB, Smith R. Revisiting the placental clock: early corticotrophin-releasing hormone rise in recurrent preterm birth. *PLoS One*. 2021 Sep 16;16(9):e0257422. Epublished: N/A. PMID: 34529698
73. Adhikari EH, SoRelle JA, McIntire DD, Spong CY. Increasing severity of COVID-19 in pregnancy with Delta (B.1.617.2) variant surge. *Am J Obstet Gynecol*. 2021 Sep 14;S0002-9378(21)01005-X. Epublished: On line ahead of print. PMID: 34529957
74. Macias DA, Adhikari EH, Eddins M, Nelson DB, McIntire DD, Duryea EL. A comparison of acute pain management strategies after cesarean delivery. *Am J Obstet Gynecol*. 2021 Sep 14;S0002-9378(21)00999-6. Epublished: On line ahead of print. PMID: 34534504
75. Hare AM, Gaddam NG, Shi H, Acevedo JF, Word RA, Florian-Rodriguez ME. Impact of vaginal distention on cell senescence in an animal model of pelvic organ prolapse. *Tissue Cell*. 2021 Dec;73:101652. Epublished: 2021 Sep 17. PMID: 34560406
76. Shahedi M, Spong CY, Dormer JD, Do QN, Xi Y, Lewis MA, Herrera C, Madhuranthakam AJ, Twickler DM, Fei B. Deep learning-based segmentation of the placenta and uterus on MR images. *J Med Imaging (Bellingham)*. 2021 Sep;8(5):054001. Epublished: 2021 Sep 25. PMID: 34589556
77. Fleming ET, Yule CS, Lafferty AK, Happe SK, McIntire DD, Spong CY. Changing patterns of peripartum hysterectomy over time. *Obstet Gynecol*. 2021 Nov 1;138(5):799-801. Epublished: N/A. PMID: 34619739
78. Nelson DB, Spong CY. Editorial: Look before leaping: the value of understanding a quality measure before adoption to public reporting. *Jt Comm J Qual Patient Saf*. 2021 Nov;47(11):681-683. Epublished: 2021 Sep 16. PMID: 34627714
79. Wang Y, Chang RJ, Luo RZ, Yu J, Zhang X, Yang X, Quddus MR, Li L, Yang W, Liu A, Jiang Q, Zhao R, Zhu H, Zhou F, Wang Y, Sheng X, Liu LL, Wen YL, Banet N, Sung CJ, Qi Y, Bi R, Li M, Wang Y, Li J, Lin W, Wang Y, Rivera G, Chen H, Holloway SB, Fadare O, Liu J, Wang J, Lea J, Kong B, Zheng W. Tumoral Morphologic Features From Cervical Biopsies That Are Predictive of a Negligible Risk for Nodal Metastasis and Tumor Recurrence in Usual-type Cervical Adenocarcinomas: A Multi-institutional Study. *Am J Surg Pathol*. 2021 Nov 11; Epublished: On line ahead of print. PMID: 34753864
80. Dillon S. Simulation in Obstetrics and Gynecology: A Review of the Past, Present, and Future. *Obstet Gynecol Clin North Am*. 2021 Dec;48(4):689-703. Epublished: N/A. PMID: 34756290
81. Lee J, Nair N. The Current and Future States of Screening in Gynecologic Cancers. *Obstet Gynecol Clin North Am*. 2021 Dec;48(4):705-722. Epublished: N/A. PMID: 34756291
82. Gilbert AL, Hoffman BL. Review: Contraceptive Technology: Present and Future. *Obstet Gynecol Clin North Am*. 2021 Dec;48(4):723-735. Epublished: N/A. PMID: 34756292
83. Holcomb DS, Rayburn WF. Women's Health and the Era After COVID-19. *Obstet Gynecol Clin North Am*. 2021 Dec;48(4):813-821. Epublished: 2021 Jul 2. PMID: 34756299
84. Holcomb DS, Cunningham FG. Editorial: Seeing Past the Horizon. *Obstet Gynecol Clin North Am*. 2021 Dec;48(4):xiii-xiv. Epublished: N/A. PMID: 34756301
85. Kolitz E, Lucas E, Hosler GA, Kim J, Hammer S, Lewis C, Xu L, Day AT, Mauskar M, Lea JS, Wang RC. Human Papillomavirus–Positive and –Negative Vulvar Squamous Cell Carcinoma Are

Biologically but Not Clinically Distinct. *J Invest Dermatol*. 2021 Oct 28;S0022-202X(21)02381-2. Epublished: On line ahead of print. PMID: 34756880

86. Herrera CL, Byrne JJ, Nelson DB, Schell RC, Dashe JS. Postpartum depression risk following prenatal diagnosis of major fetal structural anomalies. *Am J Perinatol*. 2021 Nov;10-105/s-0041-1739265. Epublished: 2021 Nov 10. PMID: 34758499
87. Duryea EL, Martin R, McIntire D, Spong CY, Nelson DB. Perinatal outcomes among women identified by a community health needs assessment. *Am J Perinatol*. 2021 Nov 16;10-1055/s-1740014. Epublished: On line ahead of print. PMID: 34784613
88. Kleinmann W, Spong CY, Nelson DB. Association of simulation training with rates of medical malpractice claims among obstetrician-gynecologists. *Obstet Gynecol*. 2021 Dec 1;138(6):943. Epublished: N/A. PMID: 34794156
89. Yoon J, Fitzgerald H, Wang Y, Wang Q, Vergalasova I, Elshaikh MA, Dimitrova I, Damast S, Li JY, Fields EC, Beriwal S, Keller A, Kidd EA, Usoz M, Jolly S, Jaworski E, Leung EW, Donovan E, Taunk NK, Chino J, Natesan D, Russo AL, Lea JS, Albuquerque KV, Lee LJ, Hathout L. Does prophylactic para-aortic lymphatic irradiation improve outcomes in women with stage IIIC1 endometrial carcinoma? A multi-institutional pooled analysis. *Pract Radiat Oncol*. 2021 Nov 22;S1879-8500(21)00280-0. Epublished: On line ahead of print. PMID: 34822999
90. Adhikari EH, Roberts S. Sexually transmitted infections and preterm birth attempting to pin down targets for intervention from population-level observational data. *JAMA Netw Open*. 2021 Nov;4(11):e2134459. Epublished: N/A. PMID: 34842929
91. Hendrickson WK, Xie G, Rahn DD, Amundsen CL, Hokanson JA, Bradley M, Smith AL, Sung VW, Visco AG, Luo S, Jelovsek JE. Predicting outcomes after intradetrusor onabotulinumtoxin for non-neurogenic urgency incontinence in women. *Neurourol Urodyn*. Epublished: 2021 Dec 2. PMID: 34859485
92. Colon-Caraballo M, Lee N, Nallasamy S, Myers K, Hudson D, Iozzo RV, Mahendroo M. Novel regulatory roles of small leucine-rich proteoglycans in remodeling of the uterine cervix in pregnancy. *Matrix Biol*. 2021 Dec 1;S0945-053X(21)00108-6. Epublished: On line ahead of print. PMID: 34863915
93. Ragsdale AS, Thiele LR, Byrne JJ, Zofkie AC, McIntire DD, Spong CY. Natural history of postpartum hematocrit recovery in an urban, safety-net population. *Am J Obstet Gynecol MFM*. 2021 Dec 4;4(2):100541. Epublished: On line ahead of print. PMID: 34875414
94. Adhikari EH, Spong CY. Letter to Editor: Pregnancy is not a disability: including pregnant healthcare workers in COVID-19 vaccine mandates. *Am J Obstet Gynecol*. 2021 Dec 10;s0002-9378(21)02645-4. Epublished: On line ahead of print. PMID: 34902322
95. Matulonis UA, Huang HQ, Filiaci VL, Randall M, DiSilvestro PA, Moxley KM, Fowler JM, Powell MA, Spirtos NM, Tewari KS, Richards WE, Nakayama JM, Mutch DG, Miller DS, Matei D, Wenzel LB. Patient reported outcomes for cisplatin and radiation followed by carboplatin/paclitaxel versus carboplatin/paclitaxel for locally advanced endometrial carcinoma: An NRG oncology study. *Gynecol Oncol*. 2021 Dec 10;S0090-8258(2)01625-5. Epublished: On line ahead of print. PMID: 34903380

96. Byrne JJ, Smith EM, Saucedo AM, Doody K, Holcomb D, Spong CY. Accessibility to postpartum tubal ligation after a vaginal delivery: When the Medicaid Policy is not a limiting factor. *Contraception*. 2021 Dec 28;S0010-7824(21)00468-6. Epublished: On line ahead of print. PMID: 34971610
97. Dilday EA, Allen RL, Manning SA, Chao L. Omental evisceration in a gravid woman following second-trimester laparoscopy: a case report. *Case Rep Womens Health*. 2020 Dec 26; 29:e00283. Epublished: eCollection 2021 Jan. PMID: 33489784
98. Shields J, Kho K. Diagnosis and Management of Primary Dysmenorrhea. *Contemporary Ob/Gyn*. 2021 May;66(5):24-29. Epublished: N/A. PMID: None
99. Yau K, Jarin J. Juvenile Cystic Adenomyoma Mimicking a Degenerating Leiomyoma. *J Gynecol Surg*. 2021 Aug;37(4):352-354. Epublished: 2021 Feb 3. PMID: None

2021 Books and Book Chapters

Department of Obstetrics and Gynecology

1. Rogers VL, Roberts SW. Obstetrics and Obstetric Disorders. In: Papadakis MA, McPhee SJ, Rabow MW, editor(s). *Current Medical Diagnosis & Treatment 2021, 60th Edition*. New York: McGraw-Hill; 2021. Ch. 19.
2. Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed*. Hoboken, NJ: Wiley-Blackwell; 2021. 672 pages.
3. Santiago-Muñoz P. Fetal blood sampling and transfusion. In: Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed*. Hoboken, NJ: Wiley-Blackwell; 2021. Ch. 9, p. 69-76.
4. Duryea E. Maternal anemia. In: Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed*. Hoboken, NJ: Wiley-Blackwell; 2021. Ch. 11, p. 89-96.
5. Patel S. Renal disease. In: Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed*. Hoboken, NJ: Wiley-Blackwell; 2021. Ch. 20, p. 201-208.
6. Adhikari EH. Syphilis. In: Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed*. Hoboken, NJ: Wiley-Blackwell; 2021. Ch. 29, p. 293-300.
7. Zofkie AC, Rogers V. Influenza. In: Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed*. Hoboken, NJ: Wiley-Blackwell; 2021. Ch. 31, p. 317-322.

8. Adhikari EH. Human Immunodeficiency Virus Infection. In: Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed.* Hoboken, NJ: Wiley-Blackwell; 2021. Ch. 33, p. 333-342.
9. Dashe JS, Ambia AM. Fetal growth restriction. In: Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed.* Hoboken, NJ: Wiley-Blackwell; 2021. Ch. 41, p. 421-430.
10. Spong CY. Indicated late-preterm birth and early-term deliveries. In: Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed.* Hoboken, NJ: Wiley-Blackwell; 2021. Ch. 46, p. 475-480.
11. Nelson DB. Postpartum hemorrhage. In: Queenan JT, Spong CY, Lockwood CJ, editor(s). *Protocols for High-Risk Pregnancies: An Evidence-Based Pregnancies, 7th ed.* Hoboken, NJ: Wiley-Blackwell; 2021. Ch. 58, p. 601-612.