

## **Selected Publications 2012-2017 Columbia Faculty & Fellows - Obstetric Anesthesia**

(Aronson, Cain, Gallos, Gonzales-Fiol, Groden, Meng, Goodman, Landau, Lee, Mankowitz, Reitman, Ring, Sachs, Smiley)

### **Research interests include:**

- High risk pregnancies (cardiac parturient)
- Labor analgesia
- Anesthesia for Cesarean delivery (prevention & management of spinal hypotension)
- Post-cesarean pain
- Pharmacogenetics of adrenergic agonists and opioids
- Uterine contractility

### **Epidemiological Research & EMR data analysis**

1. Sachs A, Guglielminotti J, Miller R, Landau R, Smiley R, Li G. Risk Factors and Risk Stratification for Adverse Obstetrical Outcomes After Appendectomy or Cholecystectomy During Pregnancy. *JAMA Surg* 2017;152:436-41.
2. Meng ML, Landau R, Viktorsdottir O, Banayan J, Grant T, Bateman B, Smiley R, Reitman E. Pulmonary Hypertension in Pregnancy: A Report of 49 Cases at Four Tertiary North American Sites. *Obstet Gynecol* 2017;129:511-20.
3. Groden J, Gonzalez-Fiol A, Aaronson J, Sachs A, Smiley R. Catheter failure rates and time course with epidural versus combined spinal-epidural analgesia in labor. *Int J Obstet Anesth* 2016;26:4-7.
4. Guglielminotti J, Wong CA, Landau R, Li G. Temporal Trends in Anesthesia-related Adverse Events in Cesarean Deliveries, New York State, 2003-2012. *Anesthesiology* 2015;123:1013-23.

### **Review Articles**

5. Meng ML, Smiley R. Modern Neuraxial Anesthesia for Labor and Delivery. *F1000Res* 2017;6:1211.
6. Landau R, Smiley R. Pharmacogenetics in obstetric anesthesia. *Best Pract Res Clin Anaesthesiol* 2017;31:23-34.
7. Mankowitz SK, Gonzalez Fiol A, Smiley R. Failure to Extend Epidural Labor Analgesia for Cesarean Delivery Anesthesia: A Focused Review. *Anesth Analg* 2016;123:1174-80.
8. Sachs A, Smiley R. Post-dural puncture headache: the worst common complication in obstetric anesthesia. *Semin Perinatol* 2014;38:386-94.
9. Lee A. Ultrasound in obstetric anesthesia. *Semin Perinatol* 2014;38:349-58.
10. Sachs A, Aaronson J, Smiley R. The role of the anesthesiologist in the care of the parturient with cardiac disease. *Semin Perinatol* 2014;38:252-9.
11. Aaronson J, Goodman S. Obstetric anesthesia: not just for cesareans and labor. *Semin Perinatol* 2014;38:378-85.
12. Landau R, Bollag L, Ortner C. Chronic pain after childbirth. *Int J Obstet Anesth* 2013;22:133-45

## Editorials

13. Smiley RM. More perfect? *Int J Obstet Anesth* 2017;29:1-4.
14. Leffert L, Landau R. Integrating the New Thromboprophylaxis Guidelines Into Obstetric Anesthesia Practice. *Anesth Analg* 2016;123:809-11.
15. Gallos G, Flood P. Wasabi and a volatile anesthetic. *Anesthesiology* 2010;112:1309-10.

## Randomized Clinical Trials & Clinical Studies

16. Lee AJ, Landau R, Mattingly JL, Meenan MM, Corradini B, Wang S, Goodman SR, Smiley RM. Left Lateral Table Tilt for Elective Cesarean Delivery under Spinal Anesthesia Has No Effect on Neonatal Acid-Base Status: A Randomized Controlled Trial. *Anesthesiology* 2017;127:241-9.
17. Bateman BT, Cole NM, Maeda A, Burns SM, Houle TT, Huybrechts KF, Clancy CR, Hopp SB, Ecker JL, Ende H, Grewe K, Raposo Corradini B, Schoenfeld RE, Sankar K, Day LJ, Harris L, Booth JL, Flood P, Bauer ME, Tsen LC, Landau R, Leffert LR. Patterns of Opioid Prescription and Use After Cesarean Delivery. *Obstet Gynecol* 2017;130:29-35.
18. Aaronson J, Abramovitz S, Smiley R, Tangel V, Landau R. A Survey of Intravenous Remifentanyl Use for Labor Analgesia at Academic Medical Centers in the United States. *Anesth Analg* 2017;124:1208-10.
19. Berger JS, Gonzalez A, Hopkins A, Alshaeri T, Jeon D, Wang S, Amdur RL, Smiley R. Dose-response of intrathecal morphine when administered with intravenous ketorolac for post-cesarean analgesia: a two-center, prospective, randomized, blinded trial. *Int J Obstet Anesth* 2016;28:3-11.
20. Odekon L, Landau R, Blouin JL, Brodow D, Wang S, Smiley RM. The Effect of  $\beta_2$ -Adrenoceptor Genotype on Phenylephrine Dose Administered During Spinal Anesthesia for Cesarean Delivery. *Anesth Analg* 2015;120:1309-16.
21. Miller R, Smiley R, Thom EA, Grobman WA, Iams JD, Mercer BM, Saade G, Tita AT, Reddy UM, Rouse DJ, Sorokin Y, Blackwell SC, Esplin MS, Tolosa JE, Caritis SN, Eunice Kennedy Shriver National Institute of Child Health and Human Development Maternal-Fetal Medicine Units N. The association of  $\beta_2$ -adrenoceptor genotype with short-cervix mediated preterm birth: a case-control study. *BJOG* 2015;122:1387-94.
22. Eisenach JC, Pan P, Smiley RM, Lavand'homme P, Landau R, Houle TT. Resolution of pain after childbirth. *Anesthesiology* 2013;118:143-51.
23. Reitman E, Conell-Price J, Evansmith J, Olson L, Drosinos S, Jasper N, Randolph P, Smiley RM, Shafer S, Flood P.  $\beta_2$ -adrenergic receptor genotype and other variables that contribute to labor pain and progress. *Anesthesiology* 2011;114:927-39.
24. Miller RS, Smiley RM, Daniel D, Weng C, Emala CW, Blouin JL, Flood PD.  $\beta_2$ -adrenoceptor genotype and progress in term and late preterm active labor. *Am J Obstet Gynecol* 2011;205:137 e1-7.
25. Landau R, Kern C, Columb MO, Smiley RM, Blouin JL. Genetic variability of the mu-opioid receptor influences intrathecal fentanyl analgesia requirements in laboring women. *Pain* 2008;139:5-14.
26. Eisenach JC, Pan PH, Smiley R, Lavand'homme P, Landau R, Houle TT. Severity of acute pain after childbirth, but not type of delivery, predicts persistent pain and postpartum depression. *Pain* 2008;140:87-94.

## Basic Science

27. Vink JY, Qin S, Brock CO, Zork NM, Feltovich HM, Chen X, Urie P, Myers KM, Hall TJ, Wapner R, Kitajewski JK, Shawber CJ, Gallos G. A new paradigm for the role of smooth muscle cells in the human cervix. *Am J Obstet Gynecol* 2016;215:478 e1- e11.
28. Brown A, Danielsson J, Townsend EA, Zhang Y, Perez-Zoghbi JF, Emala CW, Sr., Gallos G. Attenuation of airway smooth muscle contractility via flavonol-mediated inhibition of phospholipase-Cbeta. *Am J Physiol Lung Cell Mol Physiol* 2016;310:L747-58.
29. Yocum GT, Gallos G, Zhang Y, Jahan R, Stephen MR, Varagic Z, Puthenkalam R, Ernst M, Cook JM, Emala CW. Targeting the gamma-Aminobutyric Acid A Receptor alpha4 Subunit in Airway Smooth Muscle to Alleviate Bronchoconstriction. *Am J Respir Cell Mol Biol* 2016;54:546-53.
30. Lerea JS, Ring LE, Hassouna R, Chong AC, Szigeti-Buck K, Horvath TL, Zeltser LM. Reducing Adiposity in a Critical Developmental Window Has Lasting Benefits in Mice. *Endocrinology* 2016;157:666-78.