



Brendan Carvalho

Professor of Anesthesiology, Perioperative and Pain Medicine (Adult MSD) at the Stanford University Medical Center

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Dept of Anesthesia**

300 Pasteur Dr Rm H3586

MC 5640

Stanford, CA 94305

Tel (650) 724-2614

Fax (650) 725-8544

Bio

BIO

Dr. Carvalho is the Chief of Obstetric Anesthesia and Professor in the Department of Anesthesiology, Stanford University Medical Center, and the President of the Society of Obstetric Anesthesia and Perinatology (SOAP). He has published extensively in the field of Obstetric Anesthesia with over 200 peer-reviewed articles, editorials, reviews, book chapters, and commentaries. He has received several NIH, pharmaceutical and institutional grants, and won numerous research awards including three Best Research Papers at SOAP scientific meetings. Dr. Carvalho has won the Teacher of the Year award at SOAP and at Stanford University's Departments of Anesthesia. He has presented at over 150 regional, national, and international meetings and visiting professorships. His scholarly activities are focused on clinical and translational research in the field of cesarean and labor analgesia, perinatal pharmacology and immunology.

CLINICAL FOCUS

- Anesthesia
- Anesthesia, Obstetrical
- Anesthesia, Regional

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Anesthesiology, Perioperative and Pain Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Obstetric Anesthesia, (2013- present)

PROFESSIONAL EDUCATION

- Board Certification: Anesthesia, American Board of Anesthesiology (2014)
- Fellowship, Stanford University , Obstetric Anesthesia (2002)
- Residency: Southwest School of Anesthesia (2001) England
- Internship: Groote Schuur Hospital (1995) South Africa

- Medical Education: University of Witwatersrand (1994) South Africa

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I have completed research in a number of important areas in obstetric anesthesia including: optimizing neuraxial techniques for labor and cesarean analgesia; predicting individual labor and cesarean pain and analgesic needs; evaluating pregnancy-induced and hormonal changes in pain perception; determining the role of cytokines and other biochemical mediators in incisional wounds; evaluating local anesthetic potency and anesthetic requirements during labor and cesarean delivery; determining epidural and spinal opioid applications and the role of long-acting neuraxial opioids in obstetric pain management; investigating peripartum hemostatic and coagulation changes; conducting cost-analyses of various obstetric anesthesia practices; optimizing the management of maternal cardiac arrest and other obstetrical emergencies; determining patient attitudes and ethnic preferences towards obstetric analgesia; determining the efficacy of peripheral wound drug administration; and pharmacokinetics/pharmacodynamics of drugs administered to pregnant women. My current area of research focus is in developing novel ways of improving post-cesarean and peripartum labor pain management, and developing detailed pharmacokinetics/pharmacodynamics models of key antenatal medications.

CLINICAL TRIALS

- Calcium Chloride for Prevention of Uterine Atony During Cesarean, Recruiting
- PIEB vs CEI for Labor Analgesia: An MLAC Study, Recruiting
- Evaluation of Objective Pain Measurement Device, Not Recruiting
- Patient-Driven Analgesic Protocol Selection for Post-Cesarean Pain Management, Not Recruiting
- Pharmacokinetic (PK) and Pharmacodynamic (PD) Modeling of Ampicillin and Gentamicin in Peripartum Patients, Not Recruiting

Publications

PUBLICATIONS

- **Prevention of hypotension after spinal anaesthesia for caesarean section: a systematic review and network meta-analysis of randomised controlled trials.** *Anaesthesia*
Fitzgerald, J. P., Fedoruk, K. A., Jadin, S. M., Carvalho, B., Halpern, S. H.
2019
- **Evaluation of the impact of enhanced recovery after surgery protocol implementation on maternal outcomes following elective cesarean delivery.** *International journal of obstetric anaesthesia*
Kleiman, A. M., Chisholm, C. A., Dixon, A. J., Sariosek, B. M., Thiele, R. H., Hedrick, T. L., Carvalho, B., Tiouririne, M.
2019
- **Evaluation of patient-reported outcome measures of functional recovery following caesarean section: a systematic review using the consensus-based standards for the selection of health measurement instruments (COSMIN) checklist.** *Anaesthesia*
Sharawi, N., Klima, L., Shah, R., Blake, L., Carvalho, B., Sultan, P.
2019
- **Society for Obstetric Anesthesia and Perinatology Consensus Statement: Monitoring Recommendations for Prevention and Detection of Respiratory Depression Associated With Administration of Neuraxial Morphine for Cesarean Delivery Analgesia** *ANESTHESIA AND ANALGESIA*
Bauchat, J. R., Weiniger, C. F., Sultan, P., Habib, A. S., Ando, K., Kowalczyk, J. J., Kato, R., George, R. B., Palmer, C. M., Carvalho, B.
2019; 129 (2): 458–74
- **The comparative accuracy of a handheld and console ultrasound device for neuraxial depth and landmark assessment** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Carvalho, B., Seligman, K. M., Weiniger, C. F.
2019; 39: 68–73
- **Evaluation of the Obstetric Quality-of-Recovery score (ObsQoR-11) following non-elective caesarean delivery** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Ciechanowicz, S., Howie, R., Heppolette, C., Nakhjavani, B., Carvalho, B., Sultan, P.

2019; 39: 51–59

- **Preoperative Fasting Times for Patients Undergoing Caesarean Delivery: Before and After a Patient Educational Initiative** *TURKISH JOURNAL OF ANAESTHESIOLOGY AND REANIMATION*
Yurashevich, M., Chow, A., Kowalczyk, J. J., Traynor, A. J., Carvalho, B.
2019; 47 (4): 282–86
- **International consensus statement on the use of uterotonic agents during caesarean section.** *Anaesthesia*
Heesen, M., Carvalho, B., Carvalho, J. C., Duvekot, J. J., Dyer, R. A., Lucas, D. N., McDonnell, N., Orbach-Zinger, S., Kinsella, S. M.
2019
- **Supraglottic Airway Rescue After Failed Fiberoptic Intubation in a Patient With Osteogenesis Imperfecta: A Case Report** *A & A PRACTICE*
Sutton, C., Carvalho, B.
2019; 13 (1): 7–9
- **Determinants of women's dissatisfaction with anaesthesia care in labour and delivery.** *Anaesthesia*
Yurashevich, M., Carvalho, B., Butwick, A. J., Ando, K., Flood, P. D.
2019
- **Pain relief during labour.** *Lancet (London, England)*
Lozada, M. J., Weiniger, C. F., Carvalho, B., Bauchat, J. R.
2019
- **Impact of intra-operative dexamethasone after scheduled cesarean delivery: a retrospective study.** *International journal of obstetric anaesthesia*
Nanji, J. A., Guo, N., Riley, E. T., Carvalho, B.
2019
- **Essentials of Our Current Understanding: Abdominal Wall Blocks.** *Regional anaesthesia and pain medicine*
Chin, K. J., McDonnell, J. G., Carvalho, B., Sharkey, A., Pawa, A., Gadsden, J.
; 42 (2): 133–83
- **Differential Dynamics of the Maternal Immune System in Healthy Pregnancy and Preeclampsia** *FRONTIERS IN IMMUNOLOGY*
Han, X., Ghaemi, M. S., Ando, K., Peterson, L. S., Ganio, E. A., Tsai, A. S., Gaudilliere, D. K., Stelzer, I. A., Einhaus, J., Bertrand, B., Stanley, N., Culos, A., Tanada, et al
2019; 10
- **Society for Obstetric Anesthesia and Perinatology Consensus Statement: Monitoring Recommendations for Prevention and Detection of Respiratory Depression Associated With Administration of Neuraxial Morphine for Cesarean Delivery Analgesia.** *Anesthesia and analgesia*
Bauchat, J. R., Weiniger, C. F., Sultan, P., Habib, A. S., Ando, K., Kowalczyk, J. J., Kato, R., George, R. B., Palmer, C. M., Carvalho, B.
2019
- **Centers of Excellence for Anesthesia Care of Obstetric Patients.** *Anesthesia and analgesia*
Carvalho, B., Mhyre, J. M.
2019; 128 (5): 844–46
- **Centers of Excellence for Anesthesia Care of Obstetric Patients** *ANESTHESIA AND ANALGESIA*
Carvalho, B., Mhyre, J. M.
2019; 128 (5): 844–46
- **Assessing the Association Between Blood Loss and Postoperative Hemoglobin After Cesarean Delivery: A Prospective Study of 4 Blood Loss Measurement Modalities** *ANESTHESIA AND ANALGESIA*
Fedoruk, K., Seligman, K. M., Carvalho, B., Butwick, A. J.
2019; 128 (5): 926–32
- **In vitro intravenous fluid co-load rates with and without an intravenous fluid warming device** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Kowalczyk, J. J., Yurashevich, M., Austin, N., Carvalho, B.
2019; 38: 149–50
- **Impact of patient choice for different postcesarean delivery analgesic protocols on opioid consumption: a randomized prospective clinical trial** *REGIONAL ANESTHESIA AND PAIN MEDICINE*
Carvalho, B., Sutton, C., Kowalczyk, J. J., Flood, P.

2019; 44 (5): 578–85

- **Personalized analgesic management for cesarean delivery.** *International journal of obstetric anesthesia*
Carvalho, B., Habib, A. S.
2019
- **Intra-aortic Balloon Pump for Cesarean Hysterectomy and Massive Hemorrhage in a Parturient with Placenta Accreta and Pulmonary Embolus** *JOURNAL OF MEDICAL ULTRASOUND*
Riley, E. T., Akbar, K., Carvalho, B.
2019; 27 (2): 104–6
- **Impact of patient choice for different postcesarean delivery analgesic protocols on opioid consumption: a randomized prospective clinical trial.** *Regional anesthesia and pain medicine*
Carvalho, B., Sutton, C. D., Kowalczyk, J. J., Flood, P. D.
2019
- **Prospective Observational Investigation of Capnography and Pulse Oximetry Monitoring After Cesarean Delivery With Intrathecal Morphine** *ANESTHESIA AND ANALGESIA*
Weiniger, C. F., Akdagli, S., Turvall, E., Deutsch, L., Carvalho, B.
2019; 128 (3): 513–22
- **Population Pharmacokinetic Modeling to Evaluate Standard Magnesium Sulfate Treatments and Alternative Dosing Regimens for Women With Preeclampsia** *JOURNAL OF CLINICAL PHARMACOLOGY*
Du, L., Wenning, L., Migoya, E., Xu, Y., Carvalho, B., Brookfield, K., Witjes, H., de Greef, R., Lumbiganon, P., Sangkomkarnhang, U., Titapant, V., Duley, L., Long, et al
2019; 59 (3): 374–85
- **Evaluation of the Obstetric Quality-of-Recovery score (ObsQoR-11) following non-elective caesarean delivery.** *International journal of obstetric anesthesia*
Ciechanowicz, S., Howle, R., Heppolette, C., Nakhjavani, B., Carvalho, B., Sultan, P.
2019
- **The Crystalloid Co-Load: Clinically as Effective as Colloid Preload for Preventing Hypotension from Spinal Anaesthesia for Caesarean Delivery** *TURKISH JOURNAL OF ANAESTHESIOLOGY AND REANIMATION*
Riley, E. T., Mangum, K., Carvalho, B., Butwick, A. J.
2019; 47 (1): 35–40
- **Supraglottic Airway Rescue After Failed Fiberoptic Intubation in a Patient With Osteogenesis Imperfecta: A Case Report.** *A&A practice*
Sutton, C. D., Carvalho, B.
2019
- **The comparative accuracy of a handheld and console ultrasound device for neuraxial depth and landmark assessment.** *International journal of obstetric anesthesia*
Carvalho, B., Seligman, K. M., Weiniger, C. F.
2019
- **Transnasal Humidified Rapid-Insufflation Ventilatory Exchange for Elective Laryngeal Surgery During Pregnancy: A Case Report.** *A&A practice*
Kowalczyk, J. J., Carvalho, B., Collins, J.
2019
- **Preoperative Fasting Times for Patients Undergoing Caesarean Delivery: Before and After a Patient Educational Initiative.** *Turkish journal of anaesthesiology and reanimation*
Yurashevich, M., Chow, A., Kowalczyk, J. J., Traynor, A. J., Carvalho, B.
2019; 47 (4): 282–86
- **Impact of a post-cesarean analgesia order-set with split doses of oral opioids**
Nanji, J. A., Guo, N., Riley, E. T., Carvalho, B.
MOSBY-ELSEVIER.2019: S622–S623
- **Development and evaluation of an obstetric quality-of-recovery score (ObsQoR-11) after elective Caesarean delivery.** *British journal of anaesthesia*
Ciechanowicz, S., Setty, T., Robson, E., Sathasivam, C., Chazapis, M., Dick, J., Carvalho, B., Sultan, P.
2019; 122 (1): 69–78

- **Evaluation of Opioid Use With Split Doses of Oral Opioids in a Postcesarean Delivery Analgesia Order Set.** *Obstetrics and gynecology*
Nanji, J. A., Guo, N., Riley, E. T., Faulkner, B., Do, C., Carvalho, B.
2019
- **Labor Epidural Analgesia to Cesarean Section Anesthetic Conversion Failure: A National Survey.** *Anesthesiology research and practice*
Desai, N., Gardner, A., Carvalho, B.
2019; 2019: 6381792
- **Differential Dynamics of the Maternal Immune System in Healthy Pregnancy and Preeclampsia.** *Frontiers in immunology*
Han, X., Ghaemi, M. S., Ando, K., Peterson, L. S., Ganio, E. A., Tsai, A. S., Gaudilliere, D. K., Stelzer, I. A., Einhaus, J., Bertrand, B., Stanley, N., Culos, A., Tanada, et al
2019; 10: 1305
- **Labor Epidural Analgesia to Cesarean Section Anesthetic Conversion Failure: A National Survey** *ANESTHESIOLOGY RESEARCH AND PRACTICE*
Desai, N., Gardner, A., Carvalho, B.
2019
- **Alternative Magnesium Sulfate Dosing Regimens for Women With Preeclampsia: A Population Pharmacokinetic Exposure-Response Modeling and Simulation Study.** *Journal of clinical pharmacology*
Du, L., Wenning, L. A., Carvalho, B., Duley, L., Brookfield, K. F., Witjes, H., de Greef, R., Lumbiganon, P., Titapant, V., Kongwattanakul, K., Long, Q., Sangkomkamhang, U. S., Gülmezoglu, et al
2019
- **Intra-aortic Balloon Pump for Cesarean Hysterectomy and Massive Hemorrhage in a Parturient with Placenta Accreta and Pulmonary Embolus.** *Journal of medical ultrasound*
Riley, E. T., Akbar, K., Carvalho, B.
2019; 27 (2): 104–6
- **The Crystalloid Co-Load: Clinically as Effective as Colloid Preload for Preventing Hypotension from Spinal Anaesthesia for Caesarean Delivery.** *Turkish journal of anaesthesiology and reanimation*
Riley, E. T., Mangum, K., Carvalho, B., Butwick, A. J.
2019; 47 (1): 35–40
- **In vitro intravenous fluid co-load rates with and without an intravenous fluid warming device.** *International journal of obstetric anaesthesia*
Kowalczyk, J. J., Yurashevich, M., Austin, N., Carvalho, B.
2018
- **A Systematic Review Evaluating Neuraxial Morphine and Diamorphine-Associated Respiratory Depression After Cesarean Delivery** *ANESTHESIA AND ANALGESIA*
Sharawi, N., Carvalho, B., Habib, A. S., Blake, L., Mhyre, J. M., Sultan, P.
2018; 127 (6): 1385–95
- **Population Pharmacokinetic Modeling to Evaluate Standard Magnesium Sulfate Treatments and Alternative Dosing Regimens for Women With Preeclampsia.** *Journal of clinical pharmacology*
Du, L., Wenning, L., Migoya, E., Xu, Y., Carvalho, B., Brookfield, K., Witjes, H., de Greef, R., Lumbiganon, P., Sangkomkamhang, U., Titapant, V., Duley, L., Long, et al
2018
- **Prediction of outliers in pain, analgesia requirement, and recovery of function after childbirth: a prospective observational cohort study.** *British journal of anaesthesia*
Komatsu, R., Carvalho, B., Flood, P.
2018; 121 (2): 417–26
- **Does the addition of active body warming to in-line intravenous fluid warming prevent maternal hypothermia during elective caesarean section? A randomised controlled trial** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Sultan, P., Carvalho, B.
2018; 35: 115–16
- **Observational Study Using Ultrasound to Assess Midline Labor Epidural Analgesia Placement and Analgesic Efficacy** *JOURNAL OF ULTRASOUND IN MEDICINE*
Weiniger, C. F., Cobb, B., Wang, R. R., Carvalho, B.

2018; 37 (7): 1693–99

- **The Accuracy of a Handheld Ultrasound Device for Neuraxial Depth and Landmark Assessment: A Prospective Cohort Trial** *ANESTHESIA AND ANALGESIA*
Seligman, K. M., Weiniger, C. F., Carvalho, B.
2018; 126 (6): 1995–98
- **Assessing the Association Between Blood Loss and Postoperative Hemoglobin After Cesarean Delivery: A Prospective Study of 4 Blood Loss Measurement Modalities.** *Anesthesia and analgesia*
Fedoruk, K., Seligman, K. M., Carvalho, B., Butwick, A. J.
2018
- **Left Uterine Tilt for Cesarean Delivery Significantly Improves Maternal Hemodynamics and Should Not Be Considered Outdated Dogma** *ANESTHESIOLOGY*
Riley, E. T., Dyer, R. A., Carvalho, B.
2018; 128 (4): 858–59
- **EFFICACY OF PATIENT CHOICE OF DIFFERENT POSTOPERATIVE ANALGESIC PROTOCOLS AFTER CESAREAN DELIVERY: A RANDOMIZED PROSPECTIVE CLINICAL TRIAL**
Kowalczyk, J. J., Sutton, C. D., Flood, P., Carvalho, B.
LIPPINCOTT WILLIAMS & WILKINS.2018: 412
- **ASSESSMENT OF MATERNAL PERIPHERAL IMMUNE SYSTEM BY MASS CYTOMETRY TO PREDICT THE ONSET OF LABOR**
Ando, K., Han, X., Ghaemi, S., Angst, M., Carvalho, B., Aghaeepour, N., Gaudilliere, B.
LIPPINCOTT WILLIAMS & WILKINS.2018: 403
- **Mass Cytometry and Proteomic Based Prediction of the Onset of Labor.**
Ando, K., Han, X., Ghaemi, S., Tsai, A., Ganio, E., Gaudilliere, D., Culos, T., Shaw, G., Wong, R., Stevenson, D., Carvalho, B., Tingle, M., Angst, et al
SAGE PUBLICATIONS INC.2018: 153A
- **High-dose versus low-dose local anaesthetic for transversus abdominis plane block post-Caesarean delivery analgesia: a meta-analysis** *BRITISH JOURNAL OF ANAESTHESIA*
Ng, S. C., Habib, A. S., Sodha, S., Carvalho, B., Sultan, P.
2018; 120 (2): 252–63
- **The Effect of Glycopyrrolate on the Incidence of Hypotension and Vasopressor Requirement During Spinal Anesthesia for Cesarean Delivery: A Meta-analysis** *ANESTHESIA AND ANALGESIA*
Patel, S. D., Habib, A. S., Phillips, S., Carvalho, B., Sultan, P.
2018; 126 (2): 552–58
- **A Systematic Review of Postoperative Pain Outcome Measurements Utilised in Regional Anesthesia Randomized Controlled Trials.** *Anesthesiology research and practice*
Pushpanathan, E., Setty, T., Carvalho, B., Sultan, P.
2018; 2018: 9050239
- **Correlation of changes in hemodynamic response as measured by cerebral optical spectrometry with subjective pain ratings in volunteers and patients: a prospective cohort study.** *Journal of pain research*
Eisenried, A., Austin, N., Cobb, B., Akhbardeh, A., Carvalho, B., Yeomans, D. C., Tzabazis, A. Z.
2018; 11: 1991–98
- **Observational Study Using Ultrasound to Assess Midline Labor Epidural Analgesia Placement and Analgesic Efficacy.** *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine*
Weiniger, C. F., Cobb, B., Wang, R. R., Carvalho, B.
2018; 37 (7): 1693–99
- **Correlation of changes in hemodynamic response as measured by cerebral optical spectrometry with subjective pain ratings in volunteers and patients: a prospective cohort study** *JOURNAL OF PAIN RESEARCH*
Eisenried, A., Austin, N., Cobb, B., Akhbardeh, A., Carvalho, B., Yeomans, D. C., Tzabazis, A. Z.
2018; 11: 1991–98
- **A Systematic Review of Postoperative Pain Outcome Measurements Utilised in Regional Anesthesia Randomized Controlled Trials** *ANESTHESIOLOGY RESEARCH AND PRACTICE*

- Pushpanathan, E., Setty, T., Carvalho, B., Sultan, P.
2018
- **Cost-benefit Analysis of Maintaining a Fully Stocked Malignant Hyperthermia Cart versus an Initial Dantrolene Treatment Dose for Maternity Units.** *Anesthesiology*
Ho, P. T., Carvalho, B., Sun, E. C., Macario, A., Riley, E. T.
2018
 - **Preoperative anterior thigh temperature does not correlate with perioperative temporal hypothermia during cesarean delivery with spinal anesthesia: Secondary analysis of a randomized control trial.** *International journal of obstetric anaesthesia*
Cobb, B., Abir, G., Carvalho, B.
2018; 33: 40–45
 - **International consensus statement on the management of hypotension with vasopressors during caesarean section under spinal anaesthesia** *ANAESTHESIA*
Kinsella, S. M., Carvalho, B., Dyer, R. A., Fernando, R., McDonnell, N., Mercier, F. J., Palanisamy, A., Sia, A. H., Van de Velde, M., Vercueil, A.
2018; 73 (1): 71–92
 - **Similarities between obstetric anesthesia and the service industry reply** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Sutton, C., Carvalho, B.
2017; 32: 93–94
 - **Recovery after Nulliparous Birth A Detailed Analysis of Pain Analgesia and Recovery of Function** *ANESTHESIOLOGY*
Komatsu, R., Carvalho, B., Flood, P. D.
2017; 127 (4): 684–94
 - **Optimization of Maternal Magnesium Sulfate Administration for Fetal Neuroprotection: Application of a Prospectively Constructed Pharmacokinetic Model to the BEAM Cohort.** *Journal of clinical pharmacology*
Brookfield, K. F., Elkomy, M., Su, F., Drover, D. R., Carvalho, B.
2017
 - **Patient choice compared with no choice of intrathecal morphine dose for caesarean analgesia: a randomized clinical trial.** *British journal of anaesthesia*
Carvalho, B., Mirza, F., Flood, P.
2017; 118 (5): 762-771
 - **Programmed intermittent epidural boluses for maintenance of labor analgesia: an impact study Reply** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Riley, E. T., McKenzie, C. P., Cobb, B., Carvalho, B.
2017; 30: 76
 - **What's trending now? An analysis of trends in internet searches for labor epidurals** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Sutton, C. D., Carvalho, B.
2017; 30: 52-57
 - **Programmed Intermittent Epidural Boluses (PIEB) for Maintenance of Labor Analgesia: A Superior Technique to Continuous Epidural Infusion?** *Turkish journal of anaesthesiology and reanimation*
Riley, E. T., Carvalho, B.
2017; 45 (2): 65-66
 - **Analysis of Physiological Respiratory Variable Alarm Alerts Among Laboring Women Receiving Remifentanyl** *ANESTHESIA AND ANALGESIA*
Weiniger, C. F., Carvalho, B., Stocki, D., Einav, S.
2017; 124 (4): 1211-1218
 - **Programmed Intermittent Epidural Boluses (PIEB) for Maintenance of Labor Analgesia: An Incremental Step Before the Next Paradigm Shift?** *Turkish journal of anaesthesiology and reanimation*
Carvalho, B., Riley, E. T.
2017; 45 (2): 73-75
 - **Effect of a High-Rate Versus a Low-Rate Oxytocin Infusion for Maintaining Uterine Contractility During Elective Cesarean Delivery: A Prospective Randomized Clinical Trial.** *Anesthesia and analgesia*
Duffield, A., McKenzie, C., Carvalho, B., Ramachandran, B., Yin, V., El-Sayed, Y. Y., Riley, E. T., Butwick, A. J.
2017; 124 (3): 857-862

- **Optimal Pain Management After Cesarean Delivery.** *Anesthesiology clinics*
Sutton, C. D., Carvalho, B.
2017; 35 (1): 107-124
- **Postpartum hemorrhage following vaginal delivery: risk factors and maternal outcomes.** *Journal of perinatology*
Miller, C. M., Cohn, S., Akdagli, S., Carvalho, B., Blumenfeld, Y. J., Butwick, A. J.
2017; 37 (3): 243-248
- **Clinical and microbiological features of maternal sepsis: a retrospective study** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Abir, G., Akdagli, S., Butwick, A., Carvalho, B.
2017; 29: 26-33
- **Neuraxial Anesthesia in Obstetric Patients Receiving Thromboprophylaxis With Unfractionated or Low-Molecular-Weight Heparin: A Systematic Review of Spinal Epidural Hematoma.** *Anesthesia and analgesia*
Leffert, L. R., Dubois, H. M., Butwick, A. J., Carvalho, B., Houle, T. T., Landau, R.
2017; 125 (1): 223-31
- **Nitrous oxide for labor analgesia: Utilization and predictors of conversion to neuraxial analgesia.** *Journal of clinical anesthesia*
Sutton, C. D., Butwick, A. J., Riley, E. T., Carvalho, B.
2017; 40: 40-45
- **Optimal administration of cefazolin prophylaxis for cesarean delivery.** *Journal of perinatology : official journal of the California Perinatal Association*
Duffield, A., Sultan, P., Riley, E. T., Carvalho, B.
2017; 37 (1): 16-20
- **Comparative Echogenicity of an Epidural Catheter and 2 New Catheters Designed for Ultrasound-Guided Continuous Peripheral Nerve Blocks.** *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine*
Moy, D. M., Kim, T. E., Harrison, T. K., Leng, J. C., Carvalho, B., Howard, S. K., Shum, C., Kou, A., Mariano, E. R.
2017
- **Intrathecal Migration of an Epidural Catheter While Using a Programmed Intermittent Epidural Bolus Technique for Labor Analgesia Maintenance: A Case Report.** *A & A case reports*
Betti, F., Carvalho, B., Riley, E. T.
2017
- **Postpartum tubal ligation: A retrospective review of anesthetic management at a single institution and a practice survey of academic institutions.** *Journal of clinical anesthesia*
McKenzie, C., Akdagli, S., Abir, G., Carvalho, B.
2017; 43: 39-46
- **The Society for Obstetric Anesthesia and Perinatology Consensus Statement on the Anesthetic Management of Pregnant and Postpartum Women Receiving Thromboprophylaxis or Higher Dose Anticoagulants.** *Anesthesia and analgesia*
Leffert, L., Butwick, A., Carvalho, B., Arendt, K., Bates, S. M., Friedman, A., Horlocker, T., Houle, T., Landau, R., Dubois, H., Fernando, R., Houle, T., Kopp, et al
2017
- **General anaesthesia for caesarean section: is the end in sight for thiopental?** *British journal of hospital medicine (London, England : 2005)*
Desai, N., Carvalho, B.
2017; 78 (6): 358
- **A Perspective on Hypercapnia Events After Cesarean Delivery in Women Receiving Intrathecal Morphine.** *Anesthesia and analgesia*
Carvalho, B., Weiniger, C. F.
2017; 125 (1): 355-56
- **In Response.** *Anesthesia and analgesia*
Weiniger, C. F., Carvalho, B., Einav, S.
2017; 125 (2): 696-97
- **Not Too Little, Not Too Much: Finding the Goldilocks Zone for Spinal Anesthesia to Facilitate External Cephalic Version.** *Anesthesiology*
Carvalho, B., Bateman, B. T.

2017; 127 (4): 596–98

- **Optimising triggers for patient-assisted remifentanyl analgesia during labour.** *Anaesthesia*
Weiniger, C. F., Carvalho, B., Landau-Cahana, R.
2017; 72 (9): 1155–56
- **Rectus Muscle Reapproximation at Cesarean Delivery and Postoperative Pain: A Randomized Controlled Trial.** *Surgery journal (New York, N.Y.)*
Lyell, D. J., Naqvi, M., Wong, A., Urban, R., Carvalho, B.
2017; 3 (3): e128–e133
- **Ambient operating room temperature: mother, baby or surgeon?** *British journal of anaesthesia*
Sultan, P., Habib, A. S., Carvalho, B.
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