
CURRICULUM VITAE

Brendan Carvalho, MBBCh, FRCA, MDCH

Professor

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PROFILE:

Google Scholar: h-index: 34 and i10-index: 98 (June 2018)

Research Gate: RG score: 43.78 (June 2018)

EDUCATION AND CERTIFICATION:

1989-1994	MBBCh , University of the Witwatersrand, Johannesburg, SA
1999	MDCH , University of London, London, UK
2000	FRCA , Royal College of Anaesthetists, London, UK
2001	Certificate in Clinical Research , Plymouth University, UK
2014	Diplomate , American Board of Anesthesiology, USA
2016	Leadership Development Program, Stanford USA
2016	Coaches Academy, Stanford, USA

RESIDENCY AND FELLOWSHIP TRAINING:

1993	Clerkship in Anesthesia, Massachusetts General Hospital, Harvard Medical School, Boston
1993	Clinical clerkship, Letaba Community Hospital, South Africa
1994	Student Internship, Baragwanath Hospital, South Africa
Jan 1995 - Dec 1995	Internship in Obstetrics and Gynaecology, General Medicine, Surgery, Grootte Schuur Hospital, Cape Town, South Africa
Feb 1996 - Aug 1997	Senior House Officer Residency: Medicine, Oncology, Cardiology North Staffordshire Royal Infirmary, Stoke-on-Trent Royal Free Hospital / St Bartholomew's Hospital, London Northern General Hospital, Sheffield
Senior House Officer Residency, Anaesthesia and Intensive Care	
Aug 1997 - Aug 1998	Royal Surrey County Hospital, Guildford
Aug 1998 - Feb 1999	St Peter's Hospital, Chertsey

Feb 1999 - May 1999 Queen Square Hospital, London
May 1999 - Aug 1999 Guy's and St Thomas' Hospital, London

Specialist Registrar Residency, Anaesthesia and ICU, South West School of Anaesthesia, UK
Sept 1999 - Oct 2000 Royal Devon & Exeter Hospital, Exeter
Nov 2000 - Oct 2001 Derriford Hospital, Plymouth

Obstetric Anesthesia Fellowship, Department of Anesthesia, Stanford University, Stanford, CA
Oct 2001 - Sep 2002

HOSPITAL AND ACADEMIC APPOINTMENTS:

Oct 2002 - Jan 2004 Clinical Instructor, Department of Anesthesia,
Stanford University School of Medicine, Stanford, CA

Feb 2004 - Dec 2010 Assistant Professor, Medical Center Line
Department of Anesthesia, Stanford University School of Medicine

Jan 2011 - Dec 2015 Associate Professor, Medical Center Line
Department of Anesthesia, Stanford University School of Medicine

March 2013 - Present Chief, Division of Obstetric Anesthesia
Department of Anesthesia, Stanford University School of Medicine

Dec 2015 - Present Professor, Medical Center Line
Department of Anesthesia, Stanford University School of Medicine

HONORS AND ACADEMIC AWARDS:

Obstetric Anaesthetists Association of Great Britain, 2018: Best Paper Finalist (Co-Author)
Society for Obstetric Anesthesia and Perinatology, 2018: Best Paper of Meeting Finalist (Co-Author)
American Society of Anesthesiology Annual Meeting, 2017: Best Paper Oral Presentation (Co-Author)
Society for Obstetric Anesthesia and Perinatology, 2017: Best Paper of Meeting (2nd place, Senior Author)
Society for Obstetric Anesthesia and Perinatology, 2017: Gertie Marx Symp. Finalist (Co-Author)
Society for Obstetric Anesthesia and Perinatology, 2016: Won Best Paper of Meeting (Presenting Author)
Society for Obstetric Anesthesia and Perinatology, 2016: Zuspan Award (Presenting Author)
Society for Obstetric Anesthesia and Perinatology, 2016: Gertie Marx Symp. Finalist (Co-Author)
Obstetric Anaesthetists Association of Great Britain, 2016: Poster Best in Category: Analgesia (Co-Author)
Stanford University Anesthesiology Department, 2015: Best Clinical Abstract (Co-Author)
Society for Obstetric Anesthesia and Perinatology, 2015: Gertie Marx Symp.: 2nd place (Senior Author)
Society for Obstetric Anesthesia and Perinatology, 2015: Best Paper Finalist (Presenting Author)
Obstetric Anaesthetists Association of Great Britain, 2014: Best Paper Finalist (Presenting Author)
Society for Obstetric Anesthesia and Perinatology, 2014: Won Best Paper of Meeting (Presenting Author)
Society for Obstetric Anesthesia and Perinatology, 2014: Gertie Marx Symp.: 1st place (Senior Author)
Stanford University Anesthesiology Department, 2014: Best Clinical Abstract (Presenting Author)
Cornerstone Society Rising Star 2014, Lucile Packard Foundation for Children's Health

Canadian Anesthesiologists' Society, 2012: Best Paper in Obstetric Anesthesia Award (Senior Author)
 Obstetric Anaesthetists Association of Great Britain, 2012: Oral Finalist (Senior Author)
 Society for Obstetric Anesthesia and Perinatology, 2012: Won Best Paper of Meeting (Presenting Author)
 Society for Obstetric Anesthesia and Perinatology, 2012: Teacher of the Year
 Society for Obstetric Anesthesia and Perinatology, 2012: Gertie Marx Symp.: 3rd place (Co-Author)
 Stanford University Teaching Scholar Award 2012: Transthoracic Echo Curriculum for Obstetric Anesthesia
 Society for Obstetric Anesthesia and Perinatology, 2011: Best Paper Finalist (Senior Author)
 Society for Obstetric Anesthesia and Perinatology, 2010: Best Paper Finalist (Presenting Author)
 Society for Obstetric Anesthesia and Perinatology, 2009: Gertie Marx Symp.: 2nd place (Senior Author)
 Stanford University Hospital, August 2007: Attending of the Month Award
 Society for Obstetric Anesthesia and Perinatology, 2007: Gertie Marx Symp.: 3rd place (Senior Author)
 SPCTRM Intensive Clinical Research Course, Stanford University, Sept 2006: Best Protocol
 Obstetric Anaesthetists Association of Great Britain, 2006: Best abstract of Meeting (Senior Author)
 Society for Obstetric Anesthesia and Perinatology, 2006: Gertie Marx Symp.: 1st place (Senior Author)
 Stanford University Anesthesiology Department, May 2006: Attending of the Year Award
 Society for Obstetric Anesthesia and Perinatology, 2004: Gertie Marx Symp.: 2nd place (Co-Author)
 Society for Obstetric Anesthesia and Perinatology, 2003: Gertie Marx Symp. 3rd place (Presenting Author)
 Stanford University Hospital, May 2003: Attending of the Month Award
 University of Witwatersrand, South Africa, 1994:
 Noristan Prize: The most distinguished student in the final year of Obstetrics study
 Smith & Nephew Prize: Highest graduating mark in Orthopedics
 University of Witwatersrand, South Africa, 1989-91: Distinctions (honors) in: Hematology, Pharmacology,
 Forensic Medicine, Anatomy, Physiology and Community Medicine.
 University of Witwatersrand, South Africa, 1992-94: Distinctions (honors) in: Medicine, Obstetrics,
 Gynecology, Orthopedics, Pediatrics
 Greenside High School, South Africa 1988: Full academic colors

STUDY AND RESEARCH SUPPORT, GRANTS AND FUNDING:

Ongoing Research Support:

- 2017 Pacira Pharmaceuticals
 Safety and Efficacy of EXPAREL Versus Bupivacaine: Transversus Abdominis Plane (TAP)
 Blocks in Subjects Undergoing Elective Cesarean Section
 Principal Investigator
- 2017 Young Investigator Award
 Evaluation of the Effects of Intravenous Ketorolac on Platelet Function Post-Cesarean
 Mentor and Co-investigator (Awardee John Kowalczyk)
- 2012-2018 R01 HD070795-01A1
 Preventing the Neonatal Narcotic Abstinence Syndrome
 Co-investigator (Principal Investigators: Drover, Peltz)

Completed Research Support:

- 2016-2018 NIH Grant 1R41HD088137-01

Non-Invasive, Highly Specific Detection of Oxytocin in Biological Fluids
Co-investigator (Principal Investigators: Avni Argun, Giner Inc.)

- 2015-2017 *Covidien Ltd.*
Respiratory depression in women undergoing cesarean delivery with neuraxial opioids
Principal Investigator
- 2016 *Gauss Surgical*
Study Assessing Blood Loss Measurement During Cesarean Delivery with Triton Device
Co-investigator (Principal Investigators: Alexander Butwick)
- 2016 Rivanna
Neuraxial Ultrasound Device Evaluation On Laboring Women
Principal Investigator
- 2015 *WHO and Merck Pharmaceuticals*
A Study to Identify an Alternative Dosing Regimen of MgSO₄ for the Treatment of Pre-Eclampsia using Pharmacokinetic/Pharmacodynamic Modeling and Simulation
Principal Investigator
- 2015 *UCLH Hospital Charity Fund*
Transthoracic echocardiography performed by obstetric anaesthetists on outcomes following postpartum haemorrhage
Co-Investigator
- 2012-2015 *Child Health Research Institute (CHRI) Harman Faculty Scholar Award*
Pharmacokinetic and Pharmacodynamic Modeling of Magnesium Sulfate In the Mother and Exposed Neonate
Principal Investigator
- 2013-2014 *Child Health Research Institute (CHRI) Innovations in Patient Care Award*
Sepsis Surveillance in Obstetric Patients
Mentor and Senior Investigator (Principal Investigator: Hilton)
- 2013-2015 *National Institutes of Health (NIH) Clinical Loan Repayment Program (LRP) Award*
National Institute of Child Health and Human Development (NICHD)
Senior Investigator/Mentor (Principal Investigators: Kathleen Brookfield)
- 2011 *Australian and New Zealand College of Anaesthetists (ANZCA)*
Methylsalsalicylate to prevent intrathecal morphine-induced pruritus after caesarean delivery: Multicenter MEAN ITCH Trial
Co-investigator
- 2011 *Department of Anesthesiology, Stanford University*

- Continuous Femoral Nerve Block for the Management of Fracture Neck of Femur
Co-investigator
- 2011 *Pacira Pharmaceuticals*
Continuous Vs. Single-shot Local Anesthetic Wound and Nerve Administration
Principal Investigator
- 2009 *Epimed International, Inc.*
Continuous intrathecal cesarean anesthesia
Principal Investigator
- 2009-11 *EKR Therapeutics*
A Study to Evaluate the Effects of Epidural Lidocaine Administration on the Pharmacokinetic and Pharmacodynamic Profiles of Extended-Release Epidural Morphine (DepoDur™) in Patients Undergoing Cesarean Delivery
Principal Investigator
- 2008-10 *The Institute for Immunity, Transplantation and Infection, Stanford*
A Systems Biology Approach for Discovery of Biomarkers for Inflammatory Pain
Co-Investigator
- 2006-8 *NIH K12 award (BIRCWH scholarship mentored research training grant)*
Acute and Chronic Persistent Pain Following Cesarean Delivery:
The role of cytokines
Principal Investigator (Mentors: M Angst and D Clark)
- 2007 *I Flow*
Incisional Wound and Systemic Cytokines, Nerve Growth Factor, Prostaglandin E2 and Substance P Release Following Cesarean Delivery
Principal Investigator
- 2005 *Endo Pharmaceuticals*
DepoDur for Postoperative Pain Management after Cesarean Section: A randomized, double-blinded, active-controlled study.
Principal Investigator
- 2005 *Iris Litt Grant*
Coagulation effects of a crystalloid compared to a colloid preload prior to Cesarean delivery under regional anesthesia
Principal Investigator
- 2004 *LPCH Patient Innovations Award*
Grant Obstetric-Anesthesia Simulator: Training in Obstetric Crisis Management
Co-Investigator

- 2004 *Pfizer Pharmaceuticals and Department of Anesthesiology, Stanford*
Valdecoxib For Postoperative Pain Management After Cesarean Section: A randomized, double-blinded, placebo-controlled study.
Principal Investigator
- 2004 *Dynatherm Medical, Inc.*
Effect of a New Handwarming Device (Vitalheat) on Maternal Temperature during Regional Anesthesia for Cesarean Delivery.
Co-Investigator
- 2004 *Indigo Orb, Inc.*
AutoDetect Syringe: An investigational spring-loaded “loss-or resistance” epidural syringe.
Principal Investigator

COMMITTEE POSTS:

- 2018-2021 **ASA** Committee on Obstetric Anesthesia
- 2018-19 **CSA** Educational Programs Division Committee
- 2018-20 **CSA** (California Society of Anesthesiologists) District 4 Delegate
- 2017 **SOAP** Immediate-Past President
- 2018 Chair, Pediatric Anesthesia Chief Search Committee, Stanford
- 2018 Member, Adult Cardiothoracic Anesthesia Chief Search Committee, Stanford
- 2017-18 **ASA** Committee on Obstetric Anesthesia
- 2017-18 **ASA** Sub-Specialty Committee
- 2017 **SOAP** President
- 2017 **SOAP** 2018 Annual Meeting Program Committee
- 2017 **SOAP** Centers of Excellence Task Force Chair
- 2017 **SOAP** 2017 Annual Meeting Program and Scientific Chair
- 2017-18 **CSA** Educational Programs Division Committee
- 2016 **SOAP** President-Elect
- 2018-17 **ASA** Committee on Specialty Societies member
- 2016- **SOAP** Intrathecal Morphine Respiratory Depression Consensus Statement Committee, Chair
- 2016- **SOAP** Venous Thromboembolism Prophylaxis Consensus Statement Committee
- 2016-17 1st World Congress of Anesthesia for Obstetrics Planning Committee
- 2015-17 **CSA** (California Society of Anesthesiologists) District 4 Delegate
- 2016-17 **SOAP** 2016 Annual Meeting Planning Committee
- 2016 **CMQCC** (California Maternal Quality Care Collaborative) Task Force to Support Vaginal Birth and Reduce Primary Cesareans: Advisory Group
- 2015 **SOAP** East Coast Meeting Planning Committee
- 2015 **CSA** Fall Meeting Program Chair
- 2015 **SOAP** 1st VP
- 2014-16 **CSA** Educational Programs Division Committee
- 2013-14 **ASA** (American Society of Anesthesiologists) Obstetric Anesthesia Educational Track Subcommittee

2014-19 **SOAP** Executive board committee

2014 **SOAP** 2nd VP (SOAP president succession position)

2014- **SOAP** Anesthesia and Breastfeeding Consensus Statement Committee

2013 **American Heart Association** Cardiac Arrest in Pregnancy Scientific Statement Writing Group

2013-14 **CSA** Education Committee

2013- Clinical Commitment Committee

2013- Committee on Quality, Efficiency and Patient Satisfaction (QEP), Stanford

2013- Professional Practice Evaluation Committee (PPEC), Obstetrics Department, Stanford

2013- Johnson Center Executive Committee, Lucile Packard Children's Hospital

2013- Appointments and Promotions Committee, Anesthesia Department, Stanford

2013- Governance Committee, Anesthesia Department, Stanford

2013 **ASRA** (America Society of Regional Anesthesia and Pain Medicine) ACGME Fellowship Exploratory Committee

2013- **SOAP** Bylaws Committee

2013 Development and Mentoring Workgroup, Anesthesia Department, Stanford

2013 Future of Anesthesiology Workgroup, Anesthesia Department, Stanford

2012-13 **ASA** Obstetric Anesthesia Educational Track Subcommittee

2012- Education Committee, Anesthesia Department, Stanford

2012- Departmental Faculty **Senator**, Stanford University School of Medicine

2012-15 **CSA** District 4 Delegate

2012 **SOAP** Taskforce (CPR Pregnancy Consensus Statement), Chair

2012 **SOAP** Webcast Taskforce Member

2011-12 **CSA** District 4 Alternate Delegate

2011-14 Technology Assessment Committee, Stanford Hospital and Clinics

2011 Clinical Commitment Committee, Anesthesia Department, Stanford

2011-14 **SOAP** Director-at large (Board member position)

2011-19 **Sol Shnider** Annual Meeting Planning Committee

2011-12 **SOAP** Annual Meeting Planning Committee

2011- **ASA** Obstetric Anesthesia Simulation Development

2010 Incentives and Compensation Committee, Anesthesia Department, Stanford

2009-10 **ASA** Obstetric Anesthesia Research Subcommittee

2008-16 **Faculty of 1000 Medicine**, Evaluation Board Faculty Member and Reviewer, Obstetrical Anesthesia and Pain Management Section

2008- **ABA** Alternative Pathway Program Enrollment

2007- Association of University Anesthesiologists (**AUA**) Faculty

2007- **SOAP** Research Committee Member

2007 **ASA** Obstetric Anesthesia Practice Parameter Consultant

2006 **IARS** Mentorship Initiative Mentor

2006-9 **SOAP** Membership Committee Member

2005-8 **SOAP** Obstetric anesthesiology fellowship training ACGME accreditation committee

2005 **SOAP** Scientific Program Committee (Transatlantic SOAP-OAA Symposium)

2005 **FAER** Medical Student Research Fellowship Mentor

2000-1 **Royal College of Anaesthetists**, UK: Specialist Training Committee Trainee Representative.

2000 Association of Anaesthetists, UK: Trainee Linkman.

1992-4 **University of Witwatersrand, South Africa:**
The official university medical journal, the *Leech* - editorial committee
Medical school newsletter, the *Haemorrhoid* - founder and editor
Medical school graduation magazine - editor-in-chief

EDITORIAL BOARD MEMBER:

Southern African Journal of Anaesthesia and Analgesia Sub-Editor and Editorial Board (2015 - present)
International Journal of Obstetric Anesthesia Editorial Board (2011 - present)
Case Reports in Anesthesiology Editorial Board (2012 - 2017)
The Open Anesthesiology Journal Editorial Board (2012 - present)
Journal of Anesthesiology and Clinical Science Editorial Board (2012 - present)
Open Journal of Anesthesiology Editorial Board (2011- present)
Journal of Pain and Relief Editorial Board (2011- present)
ISRN Anesthesiology Editorial Board (2011- 2014)

AD-HOC JOURNAL REVIEWER:

Anesthesiology; Anesthesia and Analgesia; International Journal of Obstetric Anesthesia; British Journal of Anaesthesia; European Journal of Pain; Journal of Clinical Anesthesia; Lancet; PLOS ONE; American Journal of Obstetrics and Gynecology; Obstetrics and Gynecology; American Journal of Perinatology; Journal of Research in Medical Sciences; Dove Medical Press; Acta Anaesthesiologica Belgica; British Medical Bulletin; Minerva Anestesiologica; Anesthesiology Research and Practice; Case Reports in Anesthesiology; Annals of Surgery; First Consult; Journal of Anesthesiology and Clinical Science; Drug Safety; Current Medical Research & Opinion; Cochrane Pregnancy and Childbirth.

SCIENTIFIC ABSTRACTS AND THESIS REVIEWER:

Society for Obstetric Anesthesia and Perinatology: Annual Scientific Meeting Abstract Reviewer (2007-)
American Society of Anesthesiologists: Annual Scientific Meeting Abstract Reviewer (2009-2010)
Masters in Research Thesis Review, University of Western Australia (2011, 2014)
Masters in Research Thesis Review, University of the Witwatersrand, South Africa (2016)
Masters in Research Thesis Review, University of Cape Town, South Africa (2016)

PROFESSIONAL SOCIETIES MEMBERSHIPS: Present and Past

Association of University Anesthesiologists
American Society of Anesthesiologists
Society for Obstetric Anesthesia and Perinatology
California Society of Anesthesiologists
International Anesthesia Research Society
American Society of Regional Anesthesia and Pain Medicine
Fellow of the Royal College of Anaesthetists
Obstetric Anaesthetists Association of Great Britain
Association of Anaesthetists of Great Britain and Ireland

MENTORSHIP AND TEACHING ACTIVITIES:

OB Anesthesia Postgraduate Fellowship:

2017-18 Jessie Ansari, Jalal Nanji, Paul Macias
2016-17 Kelly Fedoruk, John Kowalczyk, Mary Yurashevich
2015-16 Katherine Seligman, Caitlin Sutton, Allison McDonald
2014-15 Ryu Komatsu, Ben Cobb, Christine Piascik
2013-14 Yuri Cho, Naola Austin, Adrienne Duffield
2012-13 Kulsum Akbar
2011-12 Farheen Mirza, Gill Hilton
2010-11 Pervez Sultan, Cristina Gutierrez
2009-10 Phil Rubin, Gill Hilton, Sebastian Ruehlmann
2008-9: Lindsey Atkinson, Scott Harter, Vicki Ting
2007-8: Pedram Aleshi, Lee Coleman, Leinani Aiono-Le Tagalao
2006-7: Amy Evers, Sachin Mehta
2005-6: Vince Campitelli, Laura Roland
2004-5: Leslie Andes, Alexander Butwick
2003-4: Cathy Brummel, Andrea Fuller
2002-3: Sherri Rohlf, Marie Durbin

MFM Postgraduate Fellowship

2016-17: Amanda Yeaton-Massey
2015-16: Amy Judy
2013-15: Kathleen Brookfield

FAER Medical Student Anesthesia Research Fellow Program:

Adrain Chow 2016, Phi Ho 2015, Kevin Mangum 2014, Tomás Lazo 2012, Louise Wen 2011, Jocelyn Wong 2011, Carolan Hass 2009, Daniel Broderick 2007, Jonathan Tang 2006

Research Electives:

Brian Tse 2018, Kazuo Ando 2016-2018, Claire Miller 2015-2016, Seden Akdagli 2014-2016, Rachel Wang 2014, Javier Lorenzo 2007, Damian Horstman 2006

Undergraduate/Medical Student Research Elective:

Christina Danial 2007, Phillip Wang 2005, 2009, Amit Saxena 2004, 2006, Surbi Sarna 2004, 2005
Jocelyn Wong 2009, Lei Tian 2010, Luo Luo Zheng 2013, Ashley Valentine 2014, Merrick Tan 2015

Thesis Examination:

Y Al-Tamimi (University of Western Australia, 2011)
R Brownino (University of Western Australia, 2014)
S Chetty (University of the Witwatersrand, 2016)
L du Toit (University of Cape Town, 2016)

PEER-REVIEWED JOURNAL PUBLICATIONS:

156 (*published/in-press/accepted*), **13** (*submitted*)

1. **Carvalho B**, Quiney NF. "Near Miss" Hyperkalaemic Cardiac Arrest Associated with Rapid Blood Transfusion. *Anaesthesia* 1999; 54(11):1094-6.
2. **Carvalho B**. Hidden hazards of scavenging. *British Journal of Anaesthesia* 1999; 83(3):532-3.
3. **Carvalho B**, Smith M. Viagra. Are anaesthetists rising to the challenge? *Anaesthesia* 2001; 56(1):91-3.
4. **Carvalho B**, Sanders D: The output of two sevoflurane vaporizers in the presence of helium. *British Journal of Anaesthesia* 2002; 88(5):711-3.

5. Feldman M, James U, **Carvalho B**, M Underwood. Single session hypnotherapy for smoking cessation. A cost-effective alternative? *European Journal of General Practice* 2002; 8(6):75-6.
6. **Carvalho B**, Benton JI, Vickery PJ, Sneyd JR, Davies PRF, Langton JA. Long term functional recovery following day-case laparoscopic sterilization: inhalational versus TIVA maintenance. *Ambulatory Surgery* 2002; 10(1):45-51.
7. **Carvalho B**, Ridler BM, Thompson JF, Telford RJ. Myocardial ischaemia precipitated by acute normovolaemic haemodilution. *Transfusion Medicine* 2003; 13:165-168.
8. **Carvalho B**, Mirikitani EJ, Lyell D, Evans DA, Druzin M, Riley ET. Neonatal chest wall rigidity following the use of remifentanyl for Cesarean Delivery in a Patient with Autoimmune Hepatitis and Thrombocytopenia: A Case Report. *Int J Obstet Anesth* 2004; 13:53-56.
9. **Carvalho B**, Coghill J. Obstetric anaesthesia workload and time of day. *Int J Obstet Anesth* 2004; 14:126-127.
10. **Carvalho B**, Riley E, Cohen SE, Gambling D, Palmer C, Huffnagle HJ, Polley L, Muir H, Segal S, Lihou C, Manvelian G. Single-dose, sustained-release epidural morphine in the management of postoperative pain after elective cesarean delivery: results of a multicenter randomized controlled study. *Anesth Analg.* 200; 100(4):1150-8.
11. **Carvalho B**, Cohen SE, Giarrusso K, Durbin M, Riley ET, Lipman S. "Ultra-light" patient-controlled epidural analgesia during labor: effects of varying regimens on analgesia and physician workload. *Int J Obstet Anesth.* 2005; 14(3):223-9.
12. **Carvalho B**, Durbin M, Drover DR, Cohen SE, Ginosar Y, Riley ET. The ED50 and ED95 of intrathecal isobaric bupivacaine with opioids for cesarean delivery. *Anesthesiology.* 2005; 103(3):606-12.
13. **Carvalho B**, Cohen SE, Lipman SS, Fuller A, Mathusamy AD, Macario A. Patient preferences for anesthesia outcomes associated with cesarean delivery. *Anesth Analg.* 2005; 101(4):1182-7.
14. Fuller AJ, **Carvalho B**, Brummel C, Riley ET. Epidural anesthesia for elective cesarean delivery with intraoperative arterial occlusion balloon catheter placement. *Anesth Analg.* 2006; 102(2):585-7.
15. **Carvalho B**, Wang P, SE Cohen. Labor patient-controlled epidural anesthesia: A survey of practice in Californian hospitals. *Int J Obstet Anesth.* 2006; 15(3):217-22.
16. **Carvalho B**, Chu L, Fuller AJ, Cohen SE, Riley ET. Valdecoxib For Postoperative Pain Management After Cesarean Section: A randomized, double-blinded, placebo-controlled study. *Anesth Analg.* 2006; 103(3):664-70
17. **Carvalho B**, Angst MS, Fuller AJ, Lin E, Mathusamy AD, Riley ET. Experimental heat pain for detecting pregnancy-induced analgesia in humans. *Anesth Analg.* 2006; 103(5):1283-7.
18. Butwick AJ, **Carvalho B**. Neuraxial anesthesia for cesarean delivery in a parturient with type 1 von Willebrand's disease and scoliosis *J Clin Anesth.* 2007; 19(3):230-233.
19. **Carvalho B**, Fuller AJ, Brummel C, Cohen SE. Reducing Superficial Bleeding and Pain during Labor Epidural Catheter Insertion. *Int J Obstet Anesth.* 2007; 16 (2):116-21.
20. Butwick AJ, **Carvalho B**. The Effects of Crystalloid and Colloid Preload on Coagulation in Pregnant Patients Prior to Elective Cesarean Delivery using Thromboelastography. *Can J Anaesth.* 2007; 54(3):190-5.
21. **Carvalho B**, Roland LM, Chu LF, Campitelli VA, Riley ET. Single-dose, extended-release epidural morphine (DepoDur™) Compared to Conventional Epidural Morphine for Post-Cesarean Pain. *Anesth Analg.* 2007; 105(1):176-83
22. **Carvalho B**, Fuller AJ, Brummel C, Durbin M, Riley ET. Fetal oxygen saturation after combined spinal epidural labor analgesia: A case series *J Clin Anesth.* 2007; 19(6):476-8

23. Riley ET, **Carvalho B**. The Episure™ Syringe: A Novel Loss of Resistance Syringe for Locating the Epidural Space. *Anesth Analg*. 2007; 105(4):1164-6.
24. Butwick AJ, Lipman S, **Carvalho B**. Intraoperative Lower Body Forced Air Warming During Cesarean Delivery Under Spinal Anesthesia Does Not Reduce Maternal Hypothermia or Shivering. *Anesth Analg*. 2007; 105(5):1413-9
25. Cohen SE, Andes LC, **Carvalho B**. Assessment of Knowledge Regarding Cardiopulmonary Resuscitation of Pregnant Women. *Int J Obstet Anesth*. 2008; 17:20-5.
26. **Carvalho B**, Butwick AJ, Saxena A, Macario A. Anesthesia coverage and interventions for vaginal twin deliveries *Int J Obstet Anesth*. 2008; 17(3):212-6. (Cited in lead editorial)
27. **Carvalho B**, Clark JD, Angst MS. Incisional Wound and Systemic Cytokines, Nerve Growth Factor, Prostaglandin E2 and Substance P Release Following Cesarean Delivery. *J Pain*. 2008; 9:650-7.
28. **Carvalho B**. Labor and Cesarean Delivery Patterns. *Anesthesiology* 2008; 109(1):161-2
29. Aiono-Le Tagalao L, **Carvalho B**. Epidural Labor Analgesia in a Patient Receiving Fondaparinux. *Int J Obstet Anesth*. 2008; 18(1): 945.
30. Angst MS, Clark JD, **Carvalho B**, Tingle M, Schmelz M, Yeomans DC. Cytokine profile in human skin in response to experimental inflammation, noxious stimulation, and administration of a COX-inhibitor: a microdialysis study. *Pain*. 2008; 139(1):15-27.
31. **Carvalho B**. Respiratory Depression after Neuraxial Opioids in the Obstetric Setting: Review *Anesth Analg*. 2008; 107(3):956-61.
32. Angst MS, Tingle M, Schmelz M, **Carvalho B**, Yeomans DC. Human in-vivo bioassay for the tissue-specific measurement of nociceptive and inflammatory mediators. *J Vis Exp*. 2008 Dec 1;(22).
33. Horstman DJ, Riley ET, **Carvalho B**. A randomized trial of maximum cephalad sensory blockade with single-shot spinal compared with combined spinal-epidural techniques for cesarean delivery. *Anesth Analg* 2009; 108:240-5.
34. Halpern S, **Carvalho B**. Patient-Controlled Epidural Analgesia for Labor. Systematic Review *Anesth Analg*. 2009; 108(3):921-8.
35. Coleman L, **Carvalho B**, Lipman S, Schmiesing C, Riley ET. Accidental Intrathecal Sufentanil Overdose During Combined Spinal-Epidural for Labor Analgesia. *Int J Obstet Anesth* 2009; 18:78-80
36. **Carvalho B**, Cohen SE, Riley ET, Brummel C, Mercier FJ. Hetastarch co-loading is as effective as pre-loading for the prevention of hypotension following spinal anesthesia for cesarean delivery *Int J Obstet Anesth* 2009; 18(2):150-5.
37. Angst MS, Tingle M, Phillips NG, **Carvalho B**. Determining heat and mechanical pain thresholds in inflamed skin of human subjects. *J Vis Exp*. 2009 Jan 14;(23).
38. Aiono-Le Tagalao L, Butwick A, **Carvalho B**. A Survey of Anesthetic Practice for Cesarean Delivery. *Anesthesiology Research and Practice* 2009, Article ID 510642.
39. **Carvalho B**, Coleman L, Saxena A, Riley ET. Analgesic Requirements and Postoperative Recovery After Elective Compared to Unplanned Cesarean Delivery *Int J Obstet Anesth* 2010; 19:10-15.
40. Jonathan TJ, Macario A, **Carvalho B**, Druzin M, El-Sayed YY. Cost-effectiveness of External Cephalic Version for Term Breech Presentation *BMC Pregnancy Childbirth*. 2010; 21:10(1):3. (Selected to Tufts Medical Center Cost-Effectiveness Analysis registry)
41. Butwick AJ, **Carvalho B**. Neuraxial Anesthesia in Obstetric Patients receiving Anticoagulant and Antithrombotic Drugs: Review *Int J Obstet Anesth* 2010; 19(2):63-72.
42. Butwick AJ, Coleman L, Cohen SE, Riley ET, **Carvalho B**. Minimum effective bolus dose of oxytocin during elective Caesarean delivery. *Br J Anaesth* 2010; 104(3):338-43.

43. Lipman S, Daniels K, **Carvalho B**, Cohen S, Druzin M. Striking Deficits in the Administration of CPR During Simulated Obstetric Crises *Am J ObGyn* 2010; 203(2):179.e1-5.
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37. ASA Annual Meeting, Atlanta Oct 2005, Poster Presentation: AJ Fuller, C Brummel, A Saxena, L Chu, SE Cohen, ET Riley, **B Carvalho**. Valdecoxib For Postoperative Pain Management After Cesarean Section: A randomized, double-blinded, placebo-controlled study
38. SOAP 38th Annual Meeting, April 2006 Miami, Oral presentation, Gertie Marx Symposium, 1st prize: AJ Butwick, P van der Starre, **B Carvalho**. Effects of Crystalloid and Colloid Preloads on Coagulation assessed by Thromboelastography in Parturients prior to Elective Cesarean Section
39. SOAP 38th Annual Meeting, April 2006 Miami, Poster presentation: **B Carvalho**, A Saxena, A Butwick, A Macario. Anesthetic Interventions During Vaginal Twin Deliveries
40. SOAP 38th Annual Meeting, April 2006 Miami, Poster presentation: DJ Horstman, A Butwick, E Riley, **B Carvalho**. Evaluation of a high-risk obstetric anesthetic clinic based in a large tertiary obstetric referral center

41. SOAP 38th Annual Meeting, April 2006 Miami, Poster presentation: **B Carvalho**, S Sama, SE Cohen. The Effect of Formal Patient Education on Patient-Controlled Epidural Analgesia During Labor
42. SOAP 38th Annual Meeting, April 2006 Miami, Poster presentation: V Campitelli, AJ Butwick, **B Carvalho**, ET Riley, SE Cohen. Oxytocin requirements at Cesarean Section: An Opinion-Based Survey of Obstetricians
43. SOAP 38th Annual Meeting, April 2006 Miami, Poster presentation: L Roland, J Collins, **B Carvalho**. Epidural Labor Analgesia in a Patient with Pemphigoid Gestationis
44. SOAP 38th Annual Meeting, April 2006 Miami, Poster presentation: VA Campitelli, **B Carvalho**, L Roland, ET Riley. Anesthesia Management of a Parturient with Arrhythmogenic Right Ventricular Dysplasia and an Implantable Cardiac Defibrillator undergoing Cesarean Delivery
45. Obstetric Anaesthetists Association of Great Britain (OAA) Annual Scientific Meeting, May 2006, Glasgow, Oral presentation: A Butwick, **B Carvalho**. Effects of crystalloid and colloid preloads on coagulation assessed by thromboelastography in parturients prior to elective caesarean section
46. Obstetric Anaesthetists Association of Great Britain (OAA) Annual Scientific Meeting, May 2006, Glasgow, Poster presentation: **B Carvalho**, A Saxena, A Butwick, A Macario. Anesthetic Interventions During Vaginal Twin Deliveries
47. ASA Annual Meeting, Chicago Oct 2006, Oral Presentation: LM Roland, VA Campitelli III, LF Chu, ET Riley, **B Carvalho**. Extended-Release Epidural Morphine Compared to Standard Epidural Morphine for Post-Cesarean Pain
48. ASA Annual Meeting, Chicago Oct 2006, Poster Presentation: **B Carvalho**, A Saxena, AJ Butwick, A Macario. The Frequency and the Type of Anesthetic Interventions for Vaginal Twin Deliveries.
49. SOAP 39th Annual Meeting, May 2007, Alberta, Canada, Oral Presentation: Gertie Marx Symposium: Horstman DJ, Riley ET, Mehta S, **Carvalho B**. Cerebrospinal Fluid Pressure and Sensory Block Height with Single-Shot Spinal Compared to Combined-Spinal Epidural Anesthesia for Cesarean Section
50. SOAP 39th Annual Meeting, May 2007, Alberta, Canada, Oral Presentation: Zuspan Award Symposium: J. M. Tan, A. Macario, **B. Carvalho**, Y. El-Sayed. Is External Cephalic Version Cost-Effective?
51. SOAP 39th Annual Meeting, May 2007, Alberta, Canada, Poster presentation and resident session oral presentation: J. M. Tan, A. Macario, Y. El-Sayed, **B. Carvalho**. A Cost-Analysis of Neuraxial Analgesia to Facilitate External Cephalic Version
52. SOAP 39th Annual Meeting, May 2007, Alberta, Canada, Oral Presentation: **Carvalho B**, Angst M, Clark D. Plasma and Wound Exudate Prostaglandin E2 and Substance P Release following Cesarean Section
53. SOAP 39th Annual Meeting, May 2007, Alberta, Canada, Poster Presentation: **Carvalho B**, Clark D, Angst M. Incisional Wound and Systemic Cytokines Release Following Cesarean Section
54. SOAP 39th Annual Meeting, May 2007, Alberta, Canada, Poster presentation and resident session oral presentation: Harkins J, **Carvalho B**, Evers A, Mehta S, Riley E. Where Do Women Get Their Information About Labor Epidurals?
55. SOAP 39th Annual Meeting, May 2007, Alberta, Canada, Poster presentation and resident session oral presentation: Harkins J, **Carvalho B**, Evers A, Mehta S, Riley E. Factors Associated With Women Receiving Epidural Analgesia In Labor
56. Western Anesthesia Resident Conference (WARC) May 2007, Oral Presentation: Horstman DJ, Riley ET, Mehta S, **Carvalho B**. Cerebrospinal Fluid Pressure and Sensory Block Height with Single-Shot Spinal Compared to Combined-Spinal Epidural Anesthesia for Cesarean Section

57. World Congress of Anaesthesia Meeting, March 2008, Cape Town, South Africa, Poster presentation: Carvalho B, Clark D, Qiao Y, Yeomans DC, Angst M. The Effect of Continuous Wound Infiltration with Bupivacaine on the Local Release of Nociceptive and Inflammatory Mediators Following Cesarean Delivery
58. SOAP 40th Annual Meeting, May 2008, Chicago, Oral Presentation: Gertie Marx Symposium: Aiono-Le Tagaloa L, Broderick DK, **Carvalho B**. Can Labor Pain and Epidural Analgesic Consumption be Predicted with Psychological Tests?
59. SOAP 40th Annual Meeting, May 2008, Chicago, Poster Presentation: **Carvalho B**, Clark D, Yeomans D, Angst M. The Effect of Continuous Wound Infiltration with Bupivacaine on the Local Release of Nociceptive and Inflammatory Mediators Following Cesarean Delivery
60. SOAP 40th Annual Meeting, May 2008, Chicago, Poster Presentation: **Carvalho B**, Broderick DK, Aiono-Le Tagaloa L. Predicting Labor Pain and Epidural Analgesic Consumption Using Quantitative Sensory Tests
61. SOAP 40th Annual Meeting, May 2008, Chicago, Poster Presentation: Evers AR, Landau R, Lorenzo J, Blouin J-L, **Carvalho B**. The effect of mu-opioid receptor variability on the analgesic response to intravenous and intrathecal fentanyl for labor analgesia
62. SOAP 40th Annual Meeting, May 2008, Chicago, Poster Presentation: Butwick A, Daniels C, **Carvalho B**, Aiono-Le Tagaloa L, Riley E. Retrospective Analysis of Anesthetic Interventions for Obese Patients undergoing Elective Cesarean Delivery.
63. SOAP 40th Annual Meeting, May 2008, Chicago, Poster Presentation: Coleman L, Daniels K, **Carvalho B**, Lipman S. Failure to Properly Administer CPR to Parturients During Simulated Arrest: ACLS Certification May Not Be Enough
64. SOAP 40th Annual Meeting, May 2008, Chicago, Case Presentation: Aiono-Le Tagaloa L, **Carvalho B**. Epidural Labor Analgesia in a Patient Receiving Fondaparinux
65. SOAP 40th Annual Meeting, May 2008, Chicago, Case Presentation: Coleman L, **Carvalho B**, Lipman S, Schmiesing CA, Riley ET. Accidental Intrathecal Sufentanil Overdose During Combined Spinal-Epidural for Labor Analgesia
66. 12th WORLD CONGRESS ON PAIN (International Association for the Study of Pain (IASP): August 2008, Glasgow, Scotland. **Carvalho B**, Clark D, Yeomans D, Angst M. Surgical wounds in humans: In-vivo cytokine release profile and effects of local anesthetic instillation
67. ASA Annual Meeting, Orlando, October 2008, Oral Presentation: A.R. Evers, R. Landau, J. Lorenzo, J-L. Blouin, **B. Carvalho**. Effect of mu-opioid receptor variability and labor analgesic response to IV and IT fentanyl
68. ASA Annual Meeting, Orlando, October 2008, Poster Presentation: Aiono-Le Tagaloa L, Broderick DK, **Carvalho B**. Evaluation of Psychological Tests to Predict Labor Pain
69. ASA Annual Meeting, Orlando, October 2008, Poster Presentation: Aiono-Le Tagaloa L, Broderick DK, **Carvalho B**. Evaluation of Quantitative Sensory Tests to Predict Labor Pain.
70. ASA Annual Meeting, Orlando, October 2008, Poster Presentation: Butwick A, Daniels C, **Carvalho B**, Aiono-Le Tagaloa L, Riley E. Retrospective Analysis of Anesthetic Interventions for Obese Patients undergoing Elective Cesarean Delivery.
71. SOAP 41st Annual Meeting, April 2009, Washington, Oral Presentation: Gertie Marx Symposium: Atkinson L, Collins J, Ting V, Harder S, **Carvalho B**. Intrathecal Hyperbaric Bupivacaine Requirements in Morbidly Obese Patients Undergoing Cesarean Delivery

72. SOAP 41st Annual Meeting, April 2009, Washington, Oral Presentation: Butwick AJ, Coleman L, Cohen SE, Riley ET, **Carvalho B**. The Minimum Effective Dose of Oxytocin in Patients Undergoing Elective Cesarean Delivery.
73. SOAP 41st Annual Meeting, April 2009, Washington, Poster Presentation: S. Lipman, **B Carvalho**, SE Cohen. The "5-Minute Rule" for Perimortem Cesarean Delivery: Should the Patient be Moved to the Operating Room?
74. SOAP 41st Annual Meeting, April 2009, Washington, Poster Presentation: S Harter, **B Carvalho**, E Riley Porcine Dura Mater Puncture Force as a Function of Spinal Needle Gauge and Type.
75. SOAP 41st Annual Meeting, April 2009, Washington, Poster Presentation: Aiono-Le Tagaloa L, Butwick AJ, **Carvalho B**. A Survey of Anesthetic Practice for Cesarean Delivery
76. ASA Annual Meeting, New Orleans, October 2009, Oral Presentation-Anesthesiology/FAER session: S. Lipman, **B Carvalho**, SE Cohen. The 5-Minute Rule for Perimortem Cesarean Delivery: Should We Move to the Operating Room?
77. ASA Annual Meeting, New Orleans, October 2009, Oral Poster Discussion. **Carvalho B**, Atkinson L, Collins J, Ting V, Harder S, Riley ET. The ED50 and ED95 of Intrathecal Bupivacaine in Morbidly Obese Patients Undergoing Cesarean Delivery
78. ASA Annual Meeting, New Orleans, October 2009, Poster Presentation. P Aleshi, M Angst, M Tingle, D Horstman, **B Carvalho**. The effect of a preemptive femoral nerve block on cytokine release and pain in inflamed skin of human volunteers
79. ASA Annual Meeting, New Orleans, October 2009, Poster Presentation. Butwick AJ, Coleman L, Cohen SE, Riley ET, **Carvalho B**. The Minimum Effective Dose of Oxytocin in Patients Undergoing Elective Cesarean Delivery.
80. ASA Annual Meeting, New Orleans, October 2009, FAER Poster Presentation. Hass C, **Carvalho B**. Analgesic Expectations and Maternal Satisfaction with Labor Analgesia.
81. APS Annual Meeting, Baltimore, May 2010 Poster Presentation: Landau R, Wilson HD, Flint L, Kraft J, **Carvalho B**, Turk DC. Stability of diffuse noxious inhibitory controls in women: within menstrual cycle fluctuations and across menstrual cycle consistency.
82. SOAP 42nd Annual Meeting, April 2010, San Antonio. Best Paper Oral Presentation. Atkinson L, Drover D, Clavijo CF, Ting V, Harter S, **Carvalho B**. The Pharmacokinetic and Pharmacodynamic Effects of Prior Epidural Lidocaine Administration on Extended-Release Epidural Morphine (DepoDur®) in Patients Undergoing Cesarean Delivery
83. SOAP 42nd Annual Meeting, April 2010, San Antonio. Poster Presentation. Rubin P, **Carvalho B**, Riley E. The effect of differential doses of bicarbonate on lidocaine pH and ionization
84. SOAP 42nd Annual Meeting, April 2010, San Antonio. Poster Presentation. Ruehlmann S, Landau R, Kraft J, Flint L, Richebe P, **Carvalho B**. The Menstrual Cycle Does Not Affect Diffuse Noxious Inhibitory Control (DNIC), Temporal Summation or Pain Tolerance
85. SOAP 42nd Annual Meeting, April 2010, San Antonio. Poster Presentation. Landau R, Ruehlmann S, Kraft J, Flint L, **Carvalho B**. Diffuse Noxious Inhibitory Control (DNIC) to evaluate endogenous pain modulation: a longitudinal study in healthy women to test reliability of repeated measures.
86. SOAP 42nd Annual Meeting, April 2010, San Antonio. Poster Presentation. Landau R, Bollag L, Richebe P, **Carvalho B**, Flynt L, Kraft J. A survey to assess the 'Overall Experience of Labor and Delivery' (OELD)
87. ASA Annual Meeting, San Diego, October 2010, Poster Presentation. Landau R, Ruehlmann S, Craft J, Flint L, **Carvalho B**. The menstrual cycle does not affect DNIC, temporal summation or pain tolerance

88. ASA Annual Meeting, San Diego, October 2010, Poster Presentation. Landau R, Wilson H, Ruehlmann S, Craft J, **Carvalho B**. Testing reliability of repeated measures of diffuse noxious inhibitory control (DNIC) in women
89. SOAP 42nd Annual Meeting, April 2011, Las Vegas. Best Paper Oral Presentation. Lipman S, Cohen SE, Daniels K, **Carvalho B**. Perimortem Cesarean Delivery During Simulated Maternal Cardiac Arrest: Labor Room Versus Operating Room
90. SOAP 42nd Annual Meeting, April 2011, Las Vegas. Oral Presentation. G Hilton, **B Carvalho**, AJ Butwick. Study to Assess the Performance of Continuous Non-invasive Hemoglobin Measurement during Cesarean Delivery
91. SOAP 42nd Annual Meeting, April 2011, Las Vegas. Oral Presentation. R Landau, C Ortner, SK Liu, JL Blouin, S Harder, **B Carvalho**. Effect of OPRM1 and COMT Genotypes on Response to Intravenous Followed by Intrathecal Fentanyl During Labor Analgesia
92. SOAP 42nd Annual Meeting, April 2011, Las Vegas. Poster Presentation. G Hilton, **B Carvalho**, ET Riley, AJ Butwick. Non-Invasive Measurement of Hemoglobin During Cesarean Delivery in Patients with Abnormal Placentation: A Case Series
93. ASRA Spring Meeting, May 2011, Las Vegas. Poster Presentation. JJ Desai, **B Carvalho**, J Hansen, JN Hill. Ultrasound Guided Popliteal Nerve block in a Patient with Malignant Degeneration of Neurofibromatosis
94. Western Anesthesia Resident Conference (WARC) May 2011. Oral Presentation. P Sultan, J Tan, A Macario, Y El-Sayed, **B Carvalho**. A Cost-Analysis of Neuraxial Anesthesia to Facilitate External Cephalic Version for Breech Fetal Presentation
95. ASA Annual Meeting, Chicago, October 2011, Oral Poster Discussion. **Carvalho B**, Daniels K, Arafeh, J, Cohen S, Lipman S. Transport consistently delays Perimortem Cesarean: A simulation based randomized controlled trial of Labor Room vs. OR
96. ASA Annual Meeting, Chicago, October 2011, Poster Presentation. Hilton G, **Carvalho B**, Butwick AJ. Study to Assess the Performance of Continuous Non-invasive Hemoglobin Measurement during Cesarean Delivery
97. ASA Annual Meeting, Chicago, October 2011, FAER Poster Presentation. Wong J, Riley E, **Carvalho B**. Analgesic efficacy of 100 mcg compared to 200 mcg intrathecal morphine after cesarean delivery
98. ASA Annual Meeting, Chicago, October 2011, FAER Poster Presentation. Wen L, Hilton G, **Carvalho B**. The Impact of Breastfeeding on Maternal Pain After Vaginal Delivery
99. American College of Physicians (ACP) Annual Meeting, West Lebanon, October 2011: Wong J, Lipman S, Cohen SE, Arafeh J, **Carvalho B**. The quality of CPR deteriorates during transport in simulated maternal arrests
100. American Society of Regional Anesthesia (ASRA) 37th Annual Meeting, San Diego, March 2012. Poster Presentation: Yun R, Kim ET, Mariano ER, **Carvalho B**. Variations in Echogenicity of Peripheral Nerve Block Catheters Demonstrated in a Porcine Animal Model
101. 15th World Congress of Anaesthesiologists Meeting, Buenos Aires, Argentina, March 2012. Poster Presentation: **Carvalho B**, Wong J, Cohen SE, Arafeh J, Lipman S. Deterioration in Quality of CPR During Transport in Simulated Maternal Arrests
102. 15th World Congress of Anaesthesiologists Meeting, Buenos Aires, Argentina. March 2012. Poster Presentation: Yun R, Kim ET, Mariano ER, **Carvalho B**. Echogenicity of Catheters Used for Ultrasound-Guided Continuous Peripheral Nerve Blocks

103. SOAP 43rd Annual Meeting, April 2012, Monterey. Best Paper: **Carvalho B**, Lemmens H, Ting V, Angst M. Postoperative Subcutaneous Instillation of Ketorolac but not Hydromorphone Reduces Pain, Analgesic Use and Wound Exudate Concentrations of Interleukin-6 and Interleukin-10 Following Cesarean Delivery
104. SOAP 43rd Annual Meeting, April 2012, Monterey. Oral Presentation Gertie Marx Symposium Sultan P, **Carvalho B**, Wilson H, Landau R. Endogenous pain inhibition does not appear to be the mechanism responsible for pregnancy-induced analgesia
105. SOAP 43rd Annual Meeting, April 2012, Monterey. Oral Presentation: **Carvalho B**, Wong J, Cohen S, Lipman S. Transport from the Labor Room to the Operating Room Significantly Decreases the Quality of CPR During Simulated Maternal Cardiac Arrest: **Selected for F1000 Posters 2012; 3:394**
106. SOAP 43rd Annual Meeting, April 2012, Monterey. Highlighted Poster Presentation: **Carvalho B**, Harter S, Wang P, Clavijo C, Drover D. Pharmacokinetics of Fentanyl in Pregnant Women versus Non-Pregnant Women.
107. SOAP 43rd Annual Meeting, April 2012, Monterey. Poster Presentation. Murphy C, Sultan P, Halpern S, **Carvalho B**. Ultra-low versus Higher-Concentration Epidural Local Anesthetic Solutions in Labor: A Meta-Analysis of Outcomes
108. SOAP 43rd Annual Meeting, April 2012, Monterey. Poster Presentation and Oral Resident Forum Presentation. Wen L, Hilton G, Astilean M, **Carvalho B**. The impact of labor and delivery on patients depression, post-traumatic stress ratings and pain preferences
109. SOAP 43rd Annual Meeting, April 2012, Monterey. Poster Presentation. Wong J, Riley E, **Carvalho B**. Post-cesarean analgesic efficacy and side effects: A comparison of 100 and 200 mcg of intrathecal morphine
110. SOAP 43rd Annual Meeting, April 2012, Monterey. Poster Presentation. Maxwell B, El-Sayed Y, Riley E, **Carvalho B**. A retrospective cohort analysis of pregnant women with moderate to complex congenital heart disease or pulmonary hypertension.
111. SOAP 43rd Annual Meeting, April 2012, Monterey. Poster Presentation. Mirza F, **Carvalho B**. A Case Series Describing an Important Role for Transversus Abdominis Plane Blocks for Rescue Analgesia After Cesarean Delivery
112. Obstetric Anaesthetists Association of Great Britain (OAA) Annual Scientific Meeting, Liverpool, UK May 2012. Oral presentation: Sultan P, Murphy C, Halpern S, **Carvalho B**. Comparison of ultra-low and higher-dose epidural local anaesthetic solutions in labour: a meta-analysis.
113. Canadian Anesthesiologists' Society Annual Scientific Meeting, Quebec City, Canada, June 2012. Best Paper in Obstetric Anesthesia: Murphy C, Sultan P, Halpern S, **Carvalho B**. Ultra-low compared to higher concentration epidural local anesthetic solutions in labor: A meta-analysis.
114. ASA Annual Meeting, Washington DC, October 2012, FAER Poster Presentation: Lazo T, Butwick A, **Carvalho B**. Multivariate analysis of factors associated with maternal temperature after Cesarean delivery
115. Society for Maternal-Fetal Medicine Annual Meeting, San Francisco February 2013, Poster Presentation: Girsan AI, Greenberg MB, El-Sayed YY, **Carvalho B**, Lyell DJ. Magnesium sulfate exposure and neonatal intensive care unit admission
116. SOAP 44th Annual Meeting, April 2013, San Juan, Puerto Rico. Oral Presentation: Sultan P, Drover D, **Carvalho B**. Pharmacokinetic modeling and placental transfer of cefazolin administered prior to cesarean delivery

117. SOAP 44th Annual Meeting, April 2013, San Juan, Puerto Rico. Poster Presentation: **Carvalho B**, Nathan E, Mirza F, Akbar K, Sia A, Sng BL, Paech M. Methyl naltrexone to Prevent Intrathecal Morphine-Induced Pruritus After Cesarean Delivery: The MEAN ITCH trial.
118. SOAP 44th Annual Meeting, April 2013, San Juan, Puerto Rico. Poster Presentation: Butwick A, Lazo T, **Carvalho B**. Multivariate Analysis of Factors Associated with Maternal Temperature After Cesarean Delivery.
119. SOAP 44th Annual Meeting, April 2013, San Juan, Puerto Rico. Poster Presentation: Butwick A, **Carvalho B**, El-Sayed E. Risk Factors for Severe Obstetric Morbidity in Patients with Uterine Atony undergoing Cesarean Delivery
120. SOAP 44th Annual Meeting, April 2013, San Juan, Puerto Rico. Poster Presentation: Wen L, Hilton G, **Carvalho B**. The Impact of Breastfeeding on Postpartum Pain After Vaginal and Cesarean Delivery
121. SOAP 44th Annual Meeting, April 2013, San Juan, Puerto Rico. Poster Presentation: Hilton G, Daniels K, **Carvalho B**. Simulation Study Assessing Knowledge of Preeclampsia/Eclampsia Management in a Tertiary Referral Center
122. International Society for Anaesthetic Pharmacology (ISAP) 22nd Annual Meeting, October 2013, San Francisco. Poster Presentation: Elkomy M, Sultan P, Drover D, **Carvalho B**. Pharmacokinetics of prophylactic cefazolin in parturients undergoing cesarean section
123. ISAP 22nd Annual Meeting, October 2013, San Francisco. Poster Presentation: Elkomy M, Sultan P, Clavijo C, **Carvalho B**, Drover D. Pharmacokinetics of ondansetron in non-pregnant women and parturients undergoing cesarean section
124. ASA Annual Meeting, San Francisco, October 2013, Poster Presentation: Hilton G, Daniels K, **Carvalho B**. Simulation Study Assessing Knowledge of Preeclampsia/Eclampsia Management in a Tertiary Referral Center
125. ASA Annual Meeting, San Francisco, October 2013, Poster Presentation: Elkomy M, Sultan P, Drover D, **Carvalho B**. Pharmacokinetics of prophylactic cefazolin in parturients undergoing cesarean section
126. Society for Gynecologic Investigation 61st Annual Scientific Meeting, April 2014, Florence, Italy: Lyell D, Urban R, Naqvi M, **Carvalho B**. Rectus Muscle Closure at Cesarean and Post-Operative Pain.
127. ASRA Annual Scientific Meeting. April 2014, Chicago. Poster presentation: Akbar K, Yin V, Horn JL, **Carvalho B**. Saline versus Local Anesthetic injection through the block needle for Peripheral Nerve Catheter Placement: a retrospective study
128. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Best paper oral: Elkomy M, Sultan P, Clavijo C, Drover D, **Carvalho B**. Pharmacokinetics of Ondansetron in Pregnant Women and Neonates.
129. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Gertie Marx Symposium oral presentation: Brookfield K, Drover DR, Adelus ML, Lyell D, **Carvalho B**. Pharmacokinetics and Placental Transfer of Magnesium Sulfate in Pregnant Women.
130. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Oral presentation: A. Butwick, **B Carvalho**. YJ Blumenfeld, YY El-Sayed, BT Bateman. Second line uterotonic agents and the risk of hemorrhage-related morbidity.
131. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Poster presentation: Butwick A, Zheng L, **Carvalho B**. Comparative effectiveness of lower leg compression devices versus sequential compression devices to prevention post-spinal hypotension during cesarean delivery

132. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Poster presentation: Lyell D, Naqvi M, Wong A, Kogut B, **Carvalho B**. Rectus Muscles Closure at Cesarean Delivery Increases Post-operative Pain
133. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Poster presentation: **Carvalho B**, Zheng M, Harter S, Sultan P. Anticipated Pain, Perceived Analgesic Needs and Psychological Traits Predict Pain and Analgesic Usage Following Cesarean Delivery
134. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Poster presentation: Hilton G, Daniels K, Goldhaber-Fiebert S, Lipman S, **Carvalho B**, Butwick A. Checklists and multidisciplinary team performance during simulated obstetric hemorrhage: A prospective study
135. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Poster presentation: Cho Y, **Carvalho B**, Butwick A, Blumenfeld Y, Riley E. Scheduled cesarean deliveries at 39 weeks compared to 37 weeks does not significantly impact obstetric and anesthetic workflow
136. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Poster presentation: Ansari J, **Carvalho B**, Austin N, Butwick A. An atypical presentation of placental abruption as neck and shoulder pain (case report)
137. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Poster presentation: Soltanifar D, Jacobs M, Jones T, McGlennan A, **Carvalho B**, Sultan P. Spinal anesthesia for emergency Cesarean delivery in a parturient with malaria falciparum (case report)
138. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Poster presentation: Duffield A, Cho Y, Collins J, Lemmens H, **Carvalho B**. Perioperative management for cesarean delivery of a woman with super-morbid obesity and severe preeclampsia (case report)
139. SOAP 45th Annual Meeting, April 2014, Toronto, Canada. Poster presentation: Akbar K, Gurney J, Riley E, **Carvalho B**. Massive Hemorrhage and Pulmonary Embolus in a Parturient with Placenta Accreta (case report)
140. Obstetric Anaesthetists Association of Great Britain (OAA) Annual Scientific Meeting, May 2014, Dublin, Ireland, Oral best paper session presentation: **Carvalho B**, Sultan P, Elkomy M, Peltz G, Clavijo C, Drover D. Pharmacokinetics of ondansetron in non-pregnant and pregnant women
141. OAA Annual Scientific Meeting, May 2014, Dublin, Ireland, Poster presentation: Carvalho B, Cho Y, Butwick A, Blumenfeld Y, Riley E. An analysis of the workflow impact of changing scheduled elective cesarean deliveries from 37 to 39 weeks
142. ASA Annual Meeting, October 2014, New Orleans. Poster Discussion: **Carvalho B**, Zheng M, Harter S, Sultan P. Anticipated Pain, Perceived Analgesic Needs and Psychological Traits Predict Post-Cesarean Delivery Pain and Analgesic Usage
143. ASA Annual Meeting, October 2014, New Orleans. Poster Discussion: Butwick A, **Carvalho B**, Blumenfeld YJ, El-Sayed YY, Bateman BT. Second line uterotonic agents and the risk of hemorrhage-related morbidity
144. ASA Annual Meeting, October 2014, New Orleans. Poster Presentation: Hilton G, Daniels K, Goldhaber-Fiebert S, Lipman S, **Carvalho B**, Butwick A. Checklists and multidisciplinary team performance during simulated obstetric hemorrhage: A prospective study
145. ASA Annual Meeting, October 2014, New Orleans. Poster Presentation: Butwick A, Zheng LL, **Carvalho B**. Comparative effectiveness of lower leg compression devices versus sequential compression devices to prevention post-spinal hypotension during cesarean delivery

146. ASA Annual Meeting, October 2014, New Orleans. Poster Presentation: Su F, Brookfield K, Drover DR, Adelus ML, **Carvalho B**. Pharmacokinetics and Placental Transfer of Magnesium Sulfate Administered to Pregnant Women
144. ASA Annual Meeting, October 2014, New Orleans. FAER Poster Presentation: Mangum K, Riley ET, Butwick A, **Carvalho B**. The Effects of Crystalloid Coload Compared to Colloid Preload on Vasopressor Use and Hypotension for Cesarean Delivery Under Spinal Anesthesia
145. Society for Maternal-Fetal Medicine Annual Meeting, San Diego, February 2015, Poster Presentation: Brookfield KF, Su F, Drover DR, Adelus ML, **Carvalho B**. Pharmacokinetics of Magnesium Sulfate in Pregnant Women.
146. Society for Maternal-Fetal Medicine Annual Meeting, San Diego, February 2015, Poster Presentation: Brookfield KF, Su F, Drover DR, Adelus ML, **Carvalho B**. Umbilical Cord Magnesium Levels and Neonatal Resuscitation in Infants Antenatally Exposed to Magnesium Sulfate
147. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Best paper oral: Carvalho B, Mirza F, Flood P. Patient Preoperative Choice of Intrathecal Morphine Dose Anticipates Post-Cesarean Delivery Pain and Opioid Requirement Independent of Actual Dose Received
148. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Gertie Marx Symposium oral presentation: Cobb B, Cho Y, Hilton G, Ting V, **Carvalho B**. Active Warming Utilizing Forced Air and Intravenous Fluid Warming Combined Decreases Hypothermia and Shivering During Cesarean Delivery
149. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Akdagli S, Hilton G, Butwick A, **Carvalho B**. Retrospective study examining patient characteristics of women diagnosed with maternal sepsis, severe sepsis and septic shock.
150. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Akdagli S, Hilton G, Butwick A, **Carvalho B**. Retrospective study to examine hospital coding and clinical features of maternal sepsis-related morbidity
151. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Austin N, Arafah J, Daniels K, Hilton G, **Carvalho B**, Lipman S. Multidisciplinary Team Performance During Simulated Local Anesthetic Systemic Toxicity and Maternal Cardiac Arrest: A Prospective Observational Study.
152. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Brookfield K, Su F, Drover D, Adelus D, **Carvalho B**. Umbilical Cord Magnesium Levels and Neonatal Resuscitation in Infants Antenatally Exposed to Magnesium Sulfate.
153. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: **Carvalho B**, Mangum K, Wang R, Drover D. Ondansetron Does Not Prevent Spinal Hypotension But Reduces Total Vasopressor Requirements in Women Undergoing Cesarean Delivery.
154. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Cobb B, Austin N, Tzabazis A, Eisenried A, **Carvalho B**. Developing and Testing an Objective Pain Measurement Device in Laboring Women.
155. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Cobb B, Cho Y, Hilton G, **Carvalho B**. Prediction of Perioperative Hypothermia and Response to Active Warming in Women Undergoing Scheduled Cesarean Delivery.
156. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Komatsu B, **Carvalho B**, Flood P. Pain Resolution and Opioid Cessation after Childbirth.
157. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Mangum K, Riley E, Butwick A, **Carvalho B**. The Effects of Crystalloid Coload Compared to Colloid Preload on Vasopressor Use and Hypotension for Cesarean Delivery under Spinal Anesthesia

158. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Piascik C, Akdagli S, Hilton G, **Carvalho B**. Anesthetic Management of Patients undergoing Postpartum Tubal Ligation: A Retrospective Analysis
159. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Piascik C, Akdagli S, **Carvalho B**, Hilton G. Anesthetic Management of Postpartum Tubal Ligation: A Survey of Current Practice in United States' Institutions with Obstetric Anesthesia Fellowship Programs
160. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Piascik C, Cobb B, **Carvalho B**, Riley E. Programmed Intermittent Epidural Boluses Implementation for Labor Analgesia: A Retrospective Impact Analysis
161. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Sultan P, Habib A, Cho Y, **Carvalho B**. A Meta-analysis assessing the effect of active warming on maternal and neonatal outcomes.
162. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Sultan P, Halpern S, Pushpanathan E, Patel S, **Carvalho B**. A Meta-analysis evaluating the effect of low and high dose morphine on maternal and neonatal outcomes.
163. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Weiniger C, **Carvalho B**, Blumenfeld Y, El-Sayed Y, Butwick A. Predictors of neuraxial block utilization among women undergoing successful vaginal birth after cesarean delivery
164. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Weiniger C, **Carvalho B**, Stocki D, Einav S. Pulse oximetry is the least effective monitoring modality to detect respiratory depression among laboring women receiving remifentanyl
165. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Weiniger C, Rachel R Wang R, Cobb B, **Carvalho B**. Neuraxial Ultrasound to Assess Midline Epidural Placement and Related Clinical Efficacy
166. SOAP 46th Annual Meeting, May 2015, Colorado Springs. Poster presentation: Weiniger C, Wong C, Dunn A, **Carvalho B**. Survey of Anesthesia Practices to Facilitate External Cephalic Version
167. International Meeting on Simulation in Healthcare (IMSH) Annual Meeting, January 2016, San Diego, Poster Presentation: Austin N, Arafeh J, **Carvalho B**, Daniels K, Hilton G, Lipman S. Analysis of Multidisciplinary Team Risk Awareness and Performance During In-Situ Simulated Cesarean Delivery Operating Room Fire.
168. International Meeting on Simulation in Healthcare (IMSH) Annual Meeting, January 2016, San Diego, Poster Presentation: Austin N, Arafeh J, **Carvalho B**, Daniels K, Hilton G, Lipman S. Multidisciplinary Team Performance During Simulated Local Anesthetic Systemic Toxicity and Maternal Cardiac Arrest: A Prospective Observational Study
169. Society for Maternal-Fetal Medicine Annual Scientific Meeting, February 2016 Atlanta, Georgia: Poster Presentation: Brookfield KF, Su F, El-Komy M, Ho P, Drover DR, **Carvalho B**. Optimization of Maternal Magnesium Sulfate Administration for Fetal Neuroprotection and Cerebral Palsy Prevention
170. 41st Annual American Society of Regional Anesthesia and Pain Medicine Meeting, March 2016, New Orleans, Poster Presentation: Kumar A, **Carvalho B**, Vokach-Brodsky L, Goodman S, Hwang K, Horn J-L. Impact of Local Infiltration Analgesia on Pain Scores and Opioid Use Following Total Knee Arthroplasty: An Interim Pilot Study
171. American College of Obstetricians and Gynecologists (ACOG) Annual Clinical and Scientific Meeting, May 2016, Washington DC, Poster Presentation: Tan M, Lipman S, Lee H, Sie L, **Carvalho B**, Daniels K. Impact of the Electronic Medical Record on Nurse's Time Allocation During Cesarean Delivery

172. SOAP 48th Annual Meeting, May 2016, Boston. Best paper winner: **Carvalho B**, El-Komy M, Su F, Drover D, Brookfield K Optimization of Maternal Magnesium Sulfate Administration for Fetal Neuroprotection and Cerebral Palsy Prevention
173. SOAP 48th Annual Meeting, May 2016, Boston. Gertie Marx Symposium Presentation: Baca Q, Fragiadakis G, Aghaeepour N, **Carvalho B**, Angst M, Gaudilliere M. Maternal Blood: A Window into the Neonatal Immune System
174. SOAP 48th Annual Meeting, May 2016, Boston. Oral Presentation: Duffield A, Piascik C, **Carvalho B**, Riley E, El-Sayed Y. Effect of Low Rate vs. High Rate Oxytocin Maintenance Infusions on Blood Loss During Elective Cesarean Section
175. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: Ho PT, Riley E, Macario A, Sun E, **Carvalho B**. Maintaining a Malignant Hyperthermia Treatment Cart within Labor and Delivery Suites is not Cost-Effective
176. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: McDonald A, Miller C, **Carvalho B**, Flood P, Riley E The Risk of Post-dural Puncture Headache After Spinal and Combined Compared to Epidural Anesthesia
177. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: Ng S, Sodha S, Habib S, **Carvalho B**, Sultan P High Dose and Low Dose Transversus Abdominis Plane Block Versus Control for Post-Cesarean Delivery Analgesia – A Meta-Analysis
178. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: Miller C, Ramachandran B, Hegde P, Akbar K, **Carvalho B**, Butwick A Postpartum Hemoglobin Levels are Not Associated with Maternal Health-Related Quality of Life Measures
179. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: Patel S, Habib A, **Carvalho B**, Sultan P. Reducing Spinal Hypotension During Cesarean Delivery with Glycopyrolate: A Meta-Analysis
180. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: McDonald A, Schwandt D, Sherman J, Austin N, **Carvalho B**, Lee H, Sie L, Lipman S Labor Units of the Future: Physical Design and Standardization of Labor and Delivery Suites
181. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: Cobb B, Ralls L, **Carvalho B** Anesthesia for Cesarean Delivery with a Dilated Aortic Root, Severe Pre-eclampsia, and Acquired Von Willebrand Disease: A Case Report
182. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: Patel S, Halper S, Mon W, **Carvalho B**, Sultan P Reducing Spinal Anesthesia Induced Hypotension during Cesarean Delivery with Serotonin Receptor Antagonists: A Meta-Analysis
183. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: Sutton C, Butwick A, Riley E, **Carvalho B**. Utilization and Predictors of Efficacy of Nitrous Oxide for Labor Analgesia
184. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: Tan M, Lipman S, Lee H, Sie L, **Carvalho B**. Impact of the Electronic Medical Record on Nurse's Time Allocation during Cesarean Delivery
185. SOAP 48th Annual Meeting, May 2016, Boston. Poster Presentation: Weiniger C, **Carvalho B**, Weissman C, Avidan A. Intrathecal Morphine Administration for Spinal Anesthesia for Cesarean Delivery
186. WARC Annual meeting 2016, San Francisco: Poster presentation: Cohn S, Miller C, Akdagli S, **Carvalho B**, Blumenfeld Y, Butwick A. Risk Factors for Postpartum Hemorrhage after Vaginal Delivery
187. ASA Annual Meeting, October 2016, Chicago. Poster Presentation: Sutton C, Butwick A, Riley E, **Carvalho B**. Nitrous Oxide for Labor Analgesia: Utilization and Predictors of Efficacy

188. ASA Annual Meeting, October 2016, Chicago. FAER Poster Presentation: Chow A, Butwick A, **Carvalho B**. Increasing ambient operation room temperature during elective cesarean delivery under spinal anesthesia does not significantly impact maternal or neonatal temperatures.
189. ASA Annual Meeting, October 2016, Chicago. FAER Poster Presentation: Chow A, Traynor A, **Carvalho B**. Preoperative fasting for patients undergoing scheduled cesarean delivery
190. ASA Annual Meeting, October 2016, Chicago. Poster Presentation: Sutton C, **Carvalho B**. Trends in Internet Searches About Labor Pain Options.
191. ASA Annual Meeting, October 2016, Chicago. Poster Presentation: Felipe P, Seligman S, **Carvalho B**. Incorporating Quality Improvement Into Residents' Daily Clinical Practice: Obstetric Anesthesiology Rotation
192. ASA Annual Meeting, October 2016, Chicago. Poster Presentation: McDonald A, Schwandt D, Sherman J, Austin N, **Carvalho B**, Lee H, Sie L, Lipman S. Labor Units of the Future: Physical Design and Standardization of Labor and Delivery Suites
193. ASA Annual Meeting, October 2016, Chicago. Poster Presentation: McDonald A, Miller C, **Carvalho B**, Flood P, Riley E. Post-dural Puncture Headache: Does Single Shot Spinal or Combined Spinal-Epidural Technique Incur More Risk Than Epidural?"
194. ASRA 42nd Annual Meeting, April 2017, San Francisco. Poster Presentation: Seligman K, Weiniger CF, **Carvalho B**. Accuracy of a Handheld Ultrasound Device and a Traditional Ultrasound for Neuraxial Depth and Landmark Assessment
195. SOAP 49th Annual Meeting, May 2017, Seattle. Best paper 2nd place: Weiniger CF, Akdagli S, Komatsu R, **Carvalho B**. Prospective observational investigation of postoperative respiratory monitoring in women undergoing cesarean delivery with intrathecal morphine administration
196. SOAP 49th Annual Meeting, May 2017, Seattle. Gertie Marx Symposium Presentation: Komatsu R, **Carvalho B**, Flood PD. Recovery after Nulliparous Birth: Analysis and Prediction of Pain, Analgesia, and Recovery of Function
197. SOAP 49th Annual Meeting, May 2017, Seattle. Poster Presentation: Kowalczyk JJ, **Carvalho B**, Lipman S. Estimating Obstetric Anesthesiology Workload: Number of Deliveries versus Workload Hours per Hour
198. SOAP 49th Annual Meeting, May 2017, Seattle. Poster Presentation: Kowalczyk JJ, Yurashevich M, Austin N, **Carvalho B**. Intravenous Fluid Flow Rates with the Addition of a Ranger Warming Insert: An In Vitro Study
199. SOAP 49th Annual Meeting, May 2017, Seattle. Top 10 Case Report Poster Presentation: Kowalczyk JJ, **Carvalho B**, Yurashevich M, Fedoruk K, Collins J. Apneic Ventilation in a Pregnant Woman Requiring Tracheal Dilation
200. SOAP 49th Annual Meeting, May 2017, Seattle. Poster Presentation: Fedoruk K, Seligman KM, **Carvalho B**, Blumenfeld YJ, Butwick AJ. Evaluation of a Novel Method of Surgical Blood Loss Determination During Cesarean Delivery in Predicting Postoperative Hemoglobin – A Prospective Observational Study
201. SOAP 49th Annual Meeting, May 2017, Seattle. Poster Presentation: Maor A, **Carvalho B**, Aptekman B, Weiniger CF. Prospective observational study of the relationship between body habitus features and neuraxial block depth and assessed difficulty
202. SOAP 49th Annual Meeting, May 2017, Seattle. Poster Presentation: Landau R, **Carvalho B**, Siaulys M, Raposo Corradini, Granot M. Influence of surgical incision length on chronic postoperative pain after cesarean delivery

203. SOAP 49th Annual Meeting, May 2017, Seattle. Poster Presentation: Leffert L , Dubois H, Butwick A, **Carvalho B**, Houle T, Landau R. Neuraxial Anesthesia in Obstetric Patients Receiving Thromboprophylaxis with Unfractionated or Low Molecular Weight Heparin: a Systematic Review of Spinal Epidural Hematoma
204. SOAP 49th Annual Meeting, May 2017, Seattle. Top 15 Poster Presentation: Judy AE, Drover D, Frymoyer A, **Carvalho B**. Pharmacokinetic modeling and placental transfer of ampicillin administered to laboring women.
205. SOAP 49th Annual Meeting, May 2017, Seattle. Top 15 Poster Presentation: Seligman KM, Weiniger CF, **Carvalho B**. Accuracy of a Handheld Ultrasound Device Compared to Traditional Ultrasound for Neuraxial Depth and Landmark Assessment
206. ASA Annual Meeting, October 2017, Boston. Oral Presentation: Kowalczyk JJ, **Carvalho B**, Lipman S. Procedure Time and Hours per Shift Improves Estimates of Obstetric Anesthesiologist Workload.
207. ASA Annual Meeting, October 2017, Boston. Poster Presentation: Yurashevich M, Chow A, Kowalczyk JJ, Traynor A, **Carvalho B**. Preoperative Fasting Times for Patients Undergoing Cesarean Delivery: Before and After a Patient Education Initiative.
208. ASA Annual Meeting, October 2017, Boston. Poster Presentation: Kaz A, Kowalczyk JJ, Bauchat J, **Carvalho B**. Survey of Respiratory Monitoring After Intrathecal Morphine Administration for Postoperative Cesarean Delivery Analgesia.
209. ASA Annual Meeting, October 2017, Boston. Poster Presentation: Kowalczyk JJ, Yurashevich M, Austin N, **Carvalho B**. In Vitro Intravenous Fluid Co-Load Rates with and without a Ranger Warming Insert.
210. ASA Annual Meeting, October 2017, Boston. Poster Presentation: Kowalczyk JJ, **Carvalho B**, Yurashevich M, Fedoruk K, Collins J. THRIVE in Pregnancy: Arterial Blood Gas Values compared to Traditional Apnea and THRIVE in Non-Pregnant Patients.
211. ASA Annual Meeting, October 2017, Boston. Best Paper Oral Presentation: Landau R, **Carvalho B**, Raposo Corradini B, Siaulys M, Wang S, Granot M. Influence of Surgical Incision Length on Acute and Chronic Post-Cesarean Pain.
212. IARS Scientific Meeting, May 2018. Poster Presentation: Kowalczyk J, Sutton C, Flood P, **Carvalho B**. Efficacy of Patient Choice of Different Postoperative Analgesic Protocols After Cesarean Delivery: A Randomized Prospective Clinical Trial.
213. OAA Annual Scientific Meeting, Belfast, May 2018: SD Patel, S Halpern, S Jardin, R Howle, **B Carvalho**, P Sultan. Best Paper Session Presentation: Comparing TAP block and wound infiltration for post- operative analgesia following caesarean delivery: a meta-analysis.
214. SOAP 50th Annual Meeting, May 2018, Miami. Best Paper Presentation: K Ando, X Han, S Ghaemi, N Aghaeepour, **B Carvalho**, B Gaudiellere Identification of immunological events that predict the onset of spontaneous labor.
215. SOAP 50th Annual Meeting, May 2018, Miami. Oral Presentation: C Sutton, P Flood, J Kowalczyk, **B Carvalho**. Effect of Patient Choice of Different Analgesic Protocols After Cesarean Delivery: A Randomized Clinical Trial
216. SOAP 50th Annual Meeting, May 2018, Miami. Poster Presentation: C Sutton, A McDonald, **B Carvalho**. Loss of Secure Airway after Fiberoptic Intubation in Patient with Osteogenesis Imperfecta
217. SOAP 50th Annual Meeting, May 2018, Miami. Poster Presentation: SD Patel, S Halpern, S Jardin, R Howle, **B Carvalho**, P Sultan. Comparing TAP block and wound infiltration for post- operative analgesia following caesarean delivery: a meta-analysis.

218. SOAP 50th Annual Meeting, May 2018, Miami. Poster Presentation: E Stockert, J Ansari, **B Carvalho**. Paradoxical Embolus and Stroke Following Balloon Valvuloplasty for Severe Mitral Stenosis During Pregnancy
219. SOAP 50th Annual Meeting, May 2018, Miami. Poster Presentation: M Yurashevich, J Kowalczyk, **B Carvalho**. Fasting Times and Increase Carbohydrate Drink Utilization Prior to Cesarean Delivery.
220. SOAP 50th Annual Meeting, May 2018, Miami. Poster Presentation: M Yurashevich, **B Carvalho**, A Butwick, K Ando, P Flood. Predictors for Women Who Are Not 100% Satisfied with Obstetric Anesthesia Care after Vaginal Delivery and Cesarean Delivery: A Retrospective Cohort Study
221. SOAP 50th Annual Meeting, May 2018, Miami. Poster Presentation: J Nanji, Y El-Sayed, C Berube, **B Carvalho**, A Butwick. Anesthetic Management for a Successful Pregnancy in a Patient with Severe Congenital Hypofibrinogenemia and Prior Fetal Demise.
222. SOAP 50th Annual Meeting, May 2018, Miami. Poster Presentation: J Nanji, N Guo, E Riley, **B Carvalho**. Impact of Introducing Routine Dexamethasone for Cesarean Delivery: A Retrospective Quality Improvement Project.
223. SOAP 50th Annual Meeting, May 2018, Miami. Poster Presentation: E Reiff, A Habib, **B Carvalho**, K Raghunathan. Antibiotic prophylaxis for cesarean delivery: A national survey of anesthesiologists.

INVITED TALKS AND VISITING PROFESSORSHIPS:

Total 171 (106 regional/national/institutional, 45 international, 20 visiting professorships) 2017-2004

American Society of Anesthesiologists (ASA) Scientific Meeting, San Francisco, October 2018

Refresher Course Speaker: Strategies to Optimize Post-Cesarean Delivery Analgesia

Panel: Maternal Cardiac Arrest: SOAP Consensus Statement Recommendations

FAER Resident Scholar Poster Moderator

European Society of Regional Anesthesia (ESRA) Annual Congress, Dublin, Ireland, September, 2018

PBLD: Major Obstetric Hemorrhage

Lecture: Epidural-related maternal fever (ERMF)

Lecture: Labor analgesia: Non-pharmacological methods

PBLD: My patient is 38 weeks pregnant, has 30,000 platelets and requires labor analgesia

EPIC UGM 2018 Meeting, Verona, WI, August, 2018

Reducing Opioids in Post-Op Obstetrics

12th National High-Risk Obstetric Analgesia and Anesthesia Symposium, Beijing, China, August 2018

Neuraxial Ultrasound: An Essential Tool to Optimize Obstetric Anesthesia Care

Ganga Anaesthesia Refresher Course, Coimbatore, India, June 2018

Labor Analgesia: Modern Technology and Strategies to Enhance Maternal Outcomes

Ultrasound-assisted Neuraxial Placement: Why and How?

Visiting Professor, University of Antwerp, Leuven, Belgium, June 2018

Management of Major Obstetric Hemorrhage

Visiting Professor, University of Leven, Leuven, Belgium, June 2018
Modern Techniques and Strategies to Optimize Epidural Labor Analgesia
Management of Major Obstetric Hemorrhage
Profound hypotension after spinal anesthesia for cesarean delivery

ESA Euroanaesthesia 2018, Copenhagen, Denmark, June 2018
Analgesia for labour and postcaesarean delivery
Moderator: Poster Session

Obstetric Anaesthetists' Association Annual Scientific Meeting, Belfast, May 2018
Oxytocin and Beyond: An evidence-based approach to pharmacological treatment of uterine atony
Moderator: Best Poster Session

Society for Obstetric Anesthesia and Perinatology Annual Meeting, Miami, May 2018
Gertie Marx Education Lecture: SOAP's 50th Anniversary Present Day
Business Meeting President's Report
Moderator: Pro-Con Debate - Obstetric Patients Do Need Respiratory Monitoring After Neuraxial Morphine

CCM Specialty Conference, Stanford, April 2018
Hypertensive Disorders of Pregnancy

Visiting Professor, Wake Forest, April 2018
Journal Club: Enhanced recovery after Cesarean Delivery
Grand Rounds: Surgical Pain Management: Past, Present and Future
Resident Lecture: Pre-Eclampsia Management

California Society of Anesthesiologists (CSA) Annual Anesthesia Meeting, Palm Springs, March 2018
General session: Neuraxial analgesia techniques to optimize analgesia and obstetric outcomes
General session: Severe Pre-Eclamptic Patient: Anesthetic Management

Visiting Professor, UT Southwestern, March 2018
Duffy Lecture: Perioperative Pain Management: Past, Present and Future
The Anesthesiologist's Role in Pre-Eclampsia Management

Sol Shnider Obsteric Anesthesia Meeting, San Francisco, California, March 2018
Prescribing Analgesics to Breastfeeding Moms
Preeclampsia: Role of Obstetric Anesthesiologist

IndoAnesthesia 2018, Jakarta, Indonesia, February 2018
Neuraxial Ultrasound: An Essential Tool to Optimize Care
Latest Techniques to Facilitate Labor Analgesia

Visiting Professor, Asan Medical Center, Seoul, South Korea, February 2018
State-of-the-art Techniques to Ensure Optimal Epidural Labor Analgesia

Austrian Society of Anesthesia National Meeting, Vienna, Austria, November 2017

Morbid obesity parturient: Optimal neuraxial techniques and drug dosages

Grand Rounds: Department of Anaesthesia, General Intensive Care and Pain Management, Medical University of Vienna, Austria, November 2017

Caesarean Delivery Anaesthesia: Update on Optimal Techniques

24th International Congress of the Israeli Society of Anesthesiology and Critical Care, Tel Aviv, Israel, November 2017

Optimizing Cesarean Delivery Pain Management in Breastfeeding Mothers

Neuraxial Blocks with Ultrasound For the Difficult or for All?

Programmed Intermittent Epidural Boluses (PIEB) for Labor Analgesia

American Society of Anesthesiologists (ASA) Scientific Meeting, Boston, October 2017

Refresher Course Speaker: Strategies to Optimize Post-Cesarean Delivery Analgesia

Moderator: Programmed Intermittent Epidural Boluses for Epidural Labor Analgesia Maintenance

Stanford Medicine X, Stanford University, September 2017

Patient-directed pain management after surgery

Edinburgh Anaesthesia Festival, Edinburgh, Scotland, August 2017

Update on Labour Analgesia

Optimal Pain Management after Caesarean Delivery

Neuraxial Ultrasound: You really should be using it!

11th Annual Obstetric Anesthesia Conference, Xinxiang City, China, August 2017

Cutting-Edge Technology and Strategies to Optimize Epidural Labor Analgesia

Visiting Professor, Zhengzhou Hospital, China, August 2017

Cutting-Edge Technology and Strategies to Optimize Epidural Labor Analgesia

Nursing Professional Development, Stanford University, July-August 2017

Cesarean Delivery Pain Management

Postpartum Hemorrhage Recognition and Management

Visiting Professor, Massachusetts General Hospital, June 2017

Postoperative Pain Management: Past, Present and Future

Stanford University Resident's Regional Anesthesia Workshop, Stanford, April 2017

Neuraxial Ultrasound

Obstetric Grands Rounds, Stanford University, June 2017

Cesarean Delivery Pain Management: Opioid-sparing Strategies

Society for Obstetric Anesthesia and Perinatology Annual Meeting, Bellevue, May 2017
Program and Scientific Chair
Moderator

OBGYN 282: Medical Students lecture series: Pregnancy, Birth, and Infancy: Anesthesia Provider Role, Stanford University, May 2017

Japanese Smiths Medical Presentation, Tokyo, Japan, April 2017
Programmed Intermittent Epidural Boluses (PIEB) for Labor Analgesia

4th Annual Meeting of Japanese Society of Regional Anesthesia, Nagoya, Japan, April 2017
Cesarean Delivery Pain Management for the Breastfeeding Mother
Modern Technology and Strategies to Optimize Epidural Labor Analgesia

Stanford University Resident's Refresher Course, Stanford, April 2017
Key Obstetric Anesthesia Topics for the Boards

42nd Annual American Society of Regional Anesthesia and Pain Medicine Meeting, San Francisco, April 2017
Programmed Intermittent Epidural Boluses for Epidural Labor Analgesia Maintenance

Annual Honorary Sheila Cohen Lectureship, Anesthesia Grand Rounds, Stanford, April 2017:
Point of Care Neuraxial and Gastric Ultrasound for the Anesthesiologist

South African Society of Anaesthesiologists National Congress, March 2017, Johannesburg, South Africa

Sol Shnider Obsteric Anesthesia Meeting, San Francisco, California, March 2017
Neuraxial Ultrasound: Time to Learn and Not Get Left Behind

1st World Congress of Anesthesia for Obstetrics, Bali, February 2017
Patient-centered, individualized analgesic treatment protocols for cesarean delivery
Cutting-edge techniques to optimize labor epidural analgesia maintenance

Grands Rounds, Stanford University
Cesarean Delivery Pain Management: Past, Present and Future

American Society of Anesthesiologists (ASA) Scientific Meeting, San Diego, October 2016
Refresher Course Speaker: Strategies to Optimize Post-Cesarean Delivery Analgesia
Moderator: Peripartum Surgical Home
Panel Speaker: High-Risk for the Non-Obstetric Anesthesiologists

20th Alexandria Anaesthesia and Intensive Care Conference, Alexandrina, Egypt, October 2016

Strategies to optimize cesarean delivery analgesia in breast feeding parturient.
Morbid obesity parturient, neuraxial techniques and drug dose.
Modern epidural techniques to enhance labor analgesic efficacy.
Ultrasound imaging for the perioperative anesthesiologist.

Visiting Professor, Duke University, September 2016

Grand Rounds: Cesarean Delivery Pain Management: Past, Present and Future
Division Presentation: Ultrasound imaging for the perioperative anesthesiologist.

The Dannemiller Hawaiian Anesthesia Seminar, Kauai, Hawaii August 2016

Cutting-Edge Techniques to Optimize Labor Analgesia
Prevention and Treatment of Cesarean Delivery Spinal Hypotension
Cesarean Delivery Analgesia Strategies in Breastfeeding Parturient
Ultrasound for the Obstetric Anesthesiologist
Anesthetic Management Strategies for the Obesity in Pregnancy

Canadian Anesthesiologists' Society Annual Meeting, Vancouver, Canada, June 2016

Refresher course: Strategies to Optimize Cesarean Section Analgesia in Breastfeeding Parturient
Symposium/Debate Panel: When HELLP Arrives: Managing Complications of Hypertensive Disorders of Pregnancy

Society for Obstetric Anesthesia and Perinatology Annual Meeting, Boston, May 2016

Best Practice Panel Presenter
Moderator: Scientific Poster Presentations

2016 TPMG Annual Anesthesiology and POM Symposium, San Francisco, April 2016

Keynote Speaker: Ultrasound Imaging for the Perioperative Physician

California Society of Anesthesiologists (CSA) Annual Anesthesia Meeting, San Francisco, April 2016

Modern Epidural Technology and Strategies to Enhance Maternal and Fetal Outcomes
Management of Cardiac Arrest in the pregnant Patient (PBLD)

OBGYN 282: Medical Students lecture series: Pregnancy, Birth, and Infancy: Anesthesia Provider Role, Stanford University, April 2016

São Paulo State Society of Anesthesiology, Brazil, April 2016

Duke CME meeting, Palm Springs, California, March 2016

Labor Analgesia: Modern Technology and Strategies to Enhance Maternal and Fetus Outcomes
Management of the Morbid Obesity Parturient: Special Techniques and Drug Doses
Strategies to Optimize Cesarean Delivery Anesthesia and Analgesia

IndoAnesthesia 2016, Jakarta, Indonesia, February 2016

Refresher Course Lecture: Obstetric Anesthesia in the Obese Patient

Symposium Lecture: Strategies to Optimize Cesarean Delivery Analgesia in Breastfeeding Parturient

Sol Shnider Obsteric Anesthesia Meeting, San Francisco, California, March 2016

Speaker: Labor Analgesia: Modern Technology and Strategies to Enhance Maternal and Fetal Outcomes

Moderator: Making the Most Out of Labor Analgesia

Speaker: Cesarean Delivery Pain Management for the Breastfeeding Mother

Pro/Con Debate: Spinal Anesthesia in the Morbidly Obese Primigravida

California Society of Anesthesiologists' Fall Seminar, November 2015, Kauai, Hawaii

Program Chair, Faculty and Speaker

Ultrasound Imaging for the Anesthesiologist: Vascular, Spine, Gastric, Heart, Lung and Beyond

Cutting-edge Analgesia Techniques to Optimize Labor Analgesia

Advanced Intraoperative Management for Cesarean Delivery: From Local Anesthetics to Vasopressors

Strategies to Optimize Cesarean Delivery Analgesia in Breastfeeding Parturient

American Society of Anesthesiologists (ASA) Scientific Meeting, San Diego, October 2015

Refresher Course Speaker: Strategies to Optimize Post-Cesarean Delivery Analgesia

Moderator: Labor and Delivery in the High-Risk Cardiac Patient

Moderator: Title of Session: Cesarean Delivery Pain Management for the Breastfeeding Mother

Stanford University Resident's Refresher Course, Stanford, June 2015

Key Obstetric Anesthesia Topics for the Boards

2nd Latin America Symposium on OB Anesthesia, Cali, Colombia, June 2015

Ultrasound and Transthoracic Echocardiography: An Essential Tool for the Obstetric Anesthesia Provider?

Pregnant Patient Resuscitation: Simulation and Operational Reality

Society for Obstetric Anesthesia and Perinatology Annual Meeting, Colorado, May 2015

Transthoracic Echocardiography for the Obstetric Anesthesiologist Workshop

Breakfast with the Experts Speaker

California Society of Anesthesiologists' Annual Meeting, April 2015, San Francisco

Lecture: Management of the Morbidly Obese Parturient

Sol Shnider Obsteric Anesthesia Meeting, San Francisco, California, March 2015

Speaker: Prevention and treatment of spinal-induced hypotension during cesarean delivery

Moderator: Managing Your Practice

Annual Wintersymposium, Leuven, Belgium February 2015

Post-Cesarean Section Analgesia

World Congress of Regional Anaesthesia and Pain Therapy, Cape Town, South Africa, November 2014

Placental perfusion and the anesthetist

Visiting Professor, University of Virginia (UVA), November 2014
Cesarean Delivery Pain Management: Past, Present and Future

Robert Abraham Endowed Annual Lecture and Visiting Professor, Johns Hopkins University, September 2014
Post-Cesarean Delivery Pain Management: Past, Present and Future

American Society of Anesthesiologists (ASA) Scientific Meeting, New Orleans, October 2014
Refresher Course Speaker: Strategies to Optimize Post-Cesarean Delivery Analgesia
Moderator: Cutting-edge technologies and point-of-care devices to improve care of the obstetric patient
Panel Speaker: Technology to Assess Blood Loss and Hemodynamics During Obstetric Hemorrhage

Stanford University Resident's Refresher Course, Stanford, June 2014
Key Obstetric Anesthesia Topics for the Boards

Obstetric Anaesthetists Association (OAA) Annual Meeting, Dublin Ireland, UK, May 2014
Plenary Bruce Scott lecture: The customer is always right: Understanding our role in the obstetric pain experience
Transthoracic echocardiography: An essential tool for the obstetric anaesthetist?
Most influential papers of the past 10 years

International Anesthesia Research Society (IARS) Scientific Conference, Montreal Canada, May 2014
SOAP Panel Moderator and Speaker: Techniques and drugs to optimize labor analgesia
PBLD: Non-Obstetric Surgery During Pregnancy

Society for Obstetric Anesthesia and Perinatology Annual Meeting, Toronto, Canada, May 2014
Transthoracic Echocardiography for the Obstetric Anesthesiologist Workshop

California Society of Anesthesiologists' Annual Meeting, April 2014, San Francisco
Lecture: The Role of Echocardiography in Peripartum Management
PBLD: Non-Obstetric Surgery in the Pregnant or Breastfeeding Patient

Sol Shnider Obsteric Anesthesia Meeting, San Francisco, California, March 2014
Moderator: Clinical Optimization and Resuscitation
Speaker: Postoperative Analgesia
Speaker: Ultrasound: An Essential Tool for the Obstetric Anesthesia Provider

Highland Hospital, California, February 2014
Visiting Professor Grand Rounds: Optimizing Labor Analgesia

Visiting Professor, University of Witwatersrand, South Africa, February 2014
Anesthesia Department Presentation: Providing Optimal Cesarean Delivery Analgesia
Obstetric Department Presentation: Labor Analgesia: Strategies to Enhance Maternal and Fetus Outcomes

OpenAnesthesia OB Anesthesia Fellows' Webinar: January 2014

Strategies to Optimize Post-Cesarean Delivery Analgesia

American Society of Anesthesiologists (ASA) Scientific Meeting, San Francisco, October 2013

Refresher Course Speaker: Strategies to Optimize Post-Cesarean Delivery Analgesia

Panel Speaker and Moderator: Role of Ultrasound Guidance and Echocardiography in Obstetric Anesthesia

17th Annual Alexandria Anaesthesia and Intensive Care Conference, Alexandria, Egypt, October 2013

1. New Techniques to Provide Ideal Cesarean Anesthesia and Analgesia

2. Strategies to Optimize Labor Analgesia

3. Morbid Obesity in Pregnancy: Anesthetic Challenges and Management Strategies

4. Ultrasound for the Obstetric Anesthesiologist

OB Resident Lecture Series 2013: Program Coordinator and Speaker

Labor analgesia: Why we do what we do

Stanford University Resident's Refresher Course, Stanford, June 2013

Key Obstetric Anesthesia Topics for the Boards

International Anesthesia Research Society (IARS) Clinical and Scientific Conference, San Diego, May 2013.

SOAP Panel Lecture: Analgesics in the Breast Feeding Parturient

American Society of Regional Anesthesia and Pain Medicine (ASRA) 38th Annual Meeting, Boston, May 2013.

Lecture: Update on Labor and Post-Cesarean Analgesia

PBLD: Failed Regional Anesthetic For Cesarean Section: What Do I Do Now?

Lecture: Acute Pain Medicine in Pregnant Patients

Workshop Instructor: Truncal Blocks

PBLD: Management of Post-Dural Puncture Headache

Society for Obstetric Anesthesia and Perinatology Annual Meeting, San Juan, Puerto Rico, April 2013

Transthoracic Echocardiography For The Obstetric Anesthesiologist Workshop

Santa Joana Hospital Obstetric Anesthesia Meeting, Sao Paulo, Brazil, April 2013.

Anesthetic Management Strategies for the Morbidly Obese Pregnancy Patient

Ultrasound for the Obstetric Anesthesiologist

Post-Cesarean Analgesia in the Breast Feeding Parturient

Sol Shnider Obsteric Anesthesia Meeting, San Francisco, California, March 2013

Neuraxial Techniques and Dosages to Provide Optimum Anesthesia for Cesarean Delivery

Post-operative Pain Management following Cesarean Delivery: State of the Art

CPR in Pregnancy

Stanford University Resident's Regional Anesthesia Workshop, Stanford, March 2013

Visiting Professor and Presentation, Perth, Australia, February 2013

Strategies to optimize cesarean delivery analgesia

World Congress of Regional Anaesthesia and Pain Therapy, Sydney, Australia February 2013

Are we doing a good job in the management of post-CS pain?

Combined OASAO-SOAP Symposium, Sydney, Australia February 2013

Post CS and post VD analgesia in the breast feeding parturient

Stanford University Obstetric Department Grand Rounds, January 2013

Strategies to optimize cesarean analgesia

International Anesthesia Research Society (IARS) OpenAnesthesia.org Ask the Experts, January

2013. Various topics covering Obstetric Anesthesia

Risk Management Symposium, John Muir Hospital Walnut Creek Campus, Walnut Creek, California, November 2012

Keynote Speaker: Labor and Cesarean Delivery Analgesia

California Society of Anesthesiologists' Fall Seminar, November 2012, Kona, Hawaii

Strategies to optimize labor analgesia, vaginal delivery, and fetal outcomes

Morbid obesity in pregnancy: anesthetic challenges and management strategies

Prevention and treatment of spinal-induced hypotension during Cesarean delivery

Anesthesia during pregnancy: optimizing maternal and fetal well-being

Congress on Anesthesia in Obstetrics, Ho Chi Minh City, Vietnam, October, 2012

Workshop: TAP block for postoperative pain

Workshop: Ultrasound-guided Neuraxial Placement

Lecture: Labor Analgesia: Strategies to Optimize Maternal and Fetus Outcomes

Lecture: Prevention and Managing Failed Blocks for Cesarean Delivery

Lecture: Resuscitation of the Pregnant Patient

KK Hospital Obstetric Symposium, Singapore, September 2012

Plenary Lecture: New techniques in anaesthesia for caesarean section

Lecture: Morbid obesity in Pregnancy: anaesthetic challenges and dilemmas

Lecture: Managing the pregnant woman with cardiac disease

Free Communication Session: Accidental dural puncture

Pro-Con debate: All Obese patients in labour should always receive an epidural catheter

National Anaesthesia Training Program for Advanced Specialist Training, Singapore, September 2012

Lecture: Non-obstetric Surgery and Anesthesia During Pregnancy

Faculty Development Retreat, VA Palo Alto Health Care System, Palo Alto, July 2012

Defining a “Successful” Academic Career and Achieving It: Starting a Research Career

Stanford University Resident’s Refresher Course, Stanford, June 2012

Key Obstetric Anesthesia Topics for the Boards

15th World Congress of Anaesthesiologists, Buenos Aires, Argentina, March 2012

Optimizing Analgesia After C-Section

Sol Shnider Obsteric Anesthesia Meeting, San Francisco, California, March 2012

TAP Block and Lumbar Spine Ultrasound: Clinical Pearls

Failed Epidural For Unplanned Cesarean: Spinal Anesthetic (Pro/Con Debate)

New Mexico Society of Anesthesiologists (NMSA) Annual Education Meeting, Albuquerque, New Mexico, February 2012

Keynote Lecture: New Options to Optimize Labor and Cesarean Analgesia

PBLD: Failed Cesarean Blocks

Visiting Professor and Presentation (TAP Block and Lumbar Spine Ultrasound), Groote Schuur Hospital, Cape Town, South Africa, December 2011

Stanford University Resident’s Regional Anesthesia Workshop, Stanford, November 2011

Stanford University CME Regional Anesthesia Workshop, Stanford, November 2011

Duke CME meeting, Laguna Beach California, Sept 2011

Strategies to Optimize Post-Cesarean Delivery Analgesia

An Evidence-Based Approach to Fluids and Vasopressors to Prevent and Treat Cesarean Delivery Spinal Hypotension

Non-obstetric Surgery and Anesthesia During Pregnancy

Changing Practice of Anesthesia Conference, San Francisco, September 2011:

Multimodal Analgesic Options to Minimize Post-Cesarean Pain

Grand Rounds Presentation, Stanford University, Stanford, July 2011

Prevention and Management of High Spinal Block for Cesarean Delivery

Combined Scientific Meeting of the Australia and New Zealand College of Anaesthetists (ANZCA) and Hong Kong College of Anaesthesiology, Hong Kong, China, May 2011

Strategies to Optimize Labour Analgesia

Society for Obstetric Anesthesia and Perinatology (SOAP) Annual Scientific Meeting, Lake Las Vegas, Nevada, May, 2011: Failed Epidural For Unplanned Cesarean: Spinal Anesthetic (Pro/Con Debate)

Sol Shnider Obsteric Anesthesia Meeting, San Francisco, March 2011

Predicting Pain and Analgesic Requirements Before Surgery
Obstetric Hemorrhage Panel: Management of Antepartum Hemorrhage

Visiting Professor: University of British Columbia, Vancouver, Canada, January 2011

California Society of Anesthesiologists' Fall Seminar, October 2010, Kona, Hawaii

Labor Analgesia: Strategies to Optimize Maternal and Fetus Outcomes
Non-obstetric surgery and anesthesia during pregnancy
Providing the Ideal Cesarean Delivery Anesthetic
Managing the pregnant patient with cardiac disease

American Society of Anesthesiologists (ASA) Scientific Meeting, San Diego, October 2010

Point-Counterpoint Debate: Phenylephrine should replace ephedrine for the routine treatment of post-spinal hypotension in obstetric anesthesia

Australian Society of Anaesthetists, Melbourne, Australia, October 2010

New Options to Minimize Post-Cesarean Pain
Spinal Hypotension Prevention During Cesarean Delivery: An evidence-based Approach
Predicting the mother and baby [Plenary Lecture]

Stanford University Resident's Refresher Course, Stanford, June 2010

Obstetric Anesthesia Key Points

Society for Obstetric Anesthesia and Perinatology (SOAP) Annual Scientific Meeting, San Antonio

Texas, May, 2010: Pearls and Pitfalls Session; Resident and Medical Student Forum (moderator)

Kaiser Permanente Annual Anesthesiology Symposium, San Francisco, April 2010

Strategies to Optimize Analgesia for Labor

Visiting Professor: University of New Mexico, Albuquerque, March 2010

Sol Shnider Obsteric Anesthesia Meeting, San Francisco, March 2010

Spinal Anesthesia for Cesarean Delivery: Evidence Based Prevention of Hypotension
Postoperative Analgesia: New Options
Respiratory Depression after Neuraxial Opioids

Invited Presentation: Combined Anaesthesia and Obstetric Academic Meeting, Groote Schuur Hospital, Cape Town, South Africa, February 2010

Optimizing Post-Cesarean Analgesia

Visiting Professor: Al Wasl Hospital, Dubai, UAE, February 2010

Annual Wintersymposium Leuven, Belgium January 2010

Analgesia for Labor: Strategies to Optimize Maternal and Fetus Outcomes

Post-Cesarean Section Analgesia

Visiting Professor: Beth Israel Deaconess Medical Center, Boston, December 2009

Invited Presentation: Brigham and Women's Hospital, Boston, December 2009

The role of ultrasound in obstetric anesthesia

15th Annual Advances in Physiology and Pharmacology in Anesthesia and Critical Care

Wake Forest University School of Medicine, Winston-Salem, NC, November 2009

Evidence-based Approach to the Prevention of Spinal Hypotension During Cesarean Delivery

Optimizing Labor Analgesia with Patient-Controlled Epidural Analgesia

California Society of Anesthesiologists' Fall Seminar, October 2009, Kauai, Hawaii

Non-obstetric surgery and anesthesia during pregnancy

New options to optimize labor and cesarean delivery analgesia

Prevention and treatment of spinal hypotension during cesarean delivery

Managing the pregnant patient with cardiac disease

American Society of Anesthesiologists (ASA) Annual Scientific Meeting, New Orleans, October 2009:

Poster Discussion Moderator

Stanford University Resident's Regional Anesthesia Workshop, Stanford, October 2009

20th Annual UC Davis Anesthesiology Update, Napa, CA, August 2009

Preventing Hypotension During Cesarean Delivery Under Spinal Anesthesia

Failed Epidural Top-Up for Cesarean Delivery in a Patient with an Existing Labor Epidural

Visiting Professor: UC Davis, California, May 2009

Society for Obstetric Anesthesia and Perinatology (SOAP) Annual Scientific Meeting, Washington DC,

May, 2009: Minimizing Risks with Neuraxial Techniques: Respiratory Depression Following Neuraxial Opioids

Visiting Professor: University of Washington Medical Center, Seattle, April 2009

Visiting Professor: University of California San Diego (UCSD), March 2009

St. Rose Hospital Grand Rounds, Hayward, California, March 2009

Pain Management for Labor and Delivery in the 21st Century

Obstetric Anaesthetists Association (OAA) 3 Day Course, London, UK, November 2008

Patient-Controlled Epidural Analgesia (PCEA) for Labour Analgesia

Preventing Hypotension During Spinal Anaesthesia

Optimizing Post Caesarean Section Analgesia

American Society of Anesthesiologists (ASA) Annual Scientific Meeting, Orlando, October 2008: Poster Discussion Moderator

Stanford University Resident's Regional Anesthesia Workshop, Stanford, September 2008

First National Conference on Obstetric Anesthesia (Association of Obstetric Anesthesiologists), Chennai, India, September 2008

Cardiac Disease in the pregnant patient
High Dose Vs Low Dose Bupivacaine for LSCS

Californian Society of Anesthesiology (CSA) Annual Meeting, Los Angeles, May 2008

Advances in Obstetric Anesthesia and Analgesia
Non-obstetric surgery during pregnancy

Society for Obstetric Anesthesia and Perinatology (SOAP) Annual Scientific Meeting, Chicago, May, 2008: General anesthesia is acceptable for elective cesarean section (Moderator)

International Anesthesia Research Society (IARS) Clinical and Scientific Conference, San Francisco, March 2008: SOAP Panel: Optimizing Post Cesarean Delivery Analgesia

Texas Anesthesia Conference for Obstetrics (TACO) Meeting, Houston, Texas, March 2008

Is Fluid Preloading Necessary Prior to Neuraxial Anesthesia
Optimizing Post Cesarean Delivery Analgesia

World Congress of Anaesthesia (WCA) Meeting, Cape Town, South Africa, March 2008

Post Cesarean Delivery Analgesia

WCA Satellite Meeting: Obstetric Anaesthetists' Association (OAA) Refresher Course in Obstetric Anaesthesia, Cape Town, South Africa, March 2008

Patient controlled epidural analgesia (PCEA) - The gold standard?

The North of Anesthesia Meeting, Porto, Portugal, November 2007

Post-Cesarean Analgesia: New Options to Optimize Pain Management
Patient-Controlled Epidural Analgesia for Labor Analgesia: Shouldn't Everyone Use It?

American Society of Anesthesiologists (ASA) Annual Scientific Meeting, San Francisco, October 2007: SOAP Breakfast Panel: Obstetric Anesthesia: Lessons Learned From the Past

Stanford University Resident's Regional Anesthesia Workshop, Stanford, October 2007

Womens' Health Medical Forum, Stanford University, August 2007

Pain Management for Labor and Delivery in the 21st Century

Canadian Anesthesiologists' Society Annual Meeting, Calgary, Canada, June 2007

Optimizing Post Cesarean Delivery Analgesia
PCEA for Labor Analgesia: Pro vs. Con Debate
Cardiac Disease in the Pregnant Patient

Stanford University Resident's Refresher Course, Stanford, June 2007

Obstetric Anesthesia Hot Topics

Society for Obstetric Anesthesia and Perinatology (SOAP) Annual Scientific Meeting, Banff, May 2007:

"Breakfast with the Experts" Case Discussion

American Society of Regional Anesthesia and Pain Medicine (ASRA) 32nd Annual Meeting and Workshops, Vancouver, Canada, April, 2007

Advances in Obstetric Anesthesia and Analgesia
Choice of Neuraxial Anesthesia and Local Anesthetics in Parturient Undergoing Stat C-Section

The Sol Shnider Obstetrical Anesthesia Meeting, San Francisco, March 2007.

New Options for Post Cesarean Delivery Analgesia
PCEA: The Time Has Come

Stanford University / MCW Anesthesia Update Meeting, Colorado, March 2007

New options to optimize postcesarean analgesia
Patient-controlled epidural analgesia for labor analgesia: Good medicine or good marketing?

Santa Teresa Hospital, San Jose, California, November 2006.

Grand Rounds: Advances in Labor and Cesarean Analgesia

American Society of Anesthesiologists (ASA) Annual Scientific Meeting, Chicago, October 2006

Peripartum cardiomyopathy and HIV in the pregnant patient (Clinical Forum Panel)

Joint Society for Obstetric Anesthesia and Perinatology (SOAP) and Obstetric Anaesthetists Association (OAA) Summer Update on Obstetric Anesthesia Meeting, Trinity College, Dublin, Ireland, August 2006.

Post-Cesarean Analgesia: Making a choice

Society for Obstetric Anesthesia and Perinatology (SOAP) Annual Scientific Meeting, Miami, April 2006

Cardiac disease in the pregnant patient (Expert panel on pregnancy and coexisting diseases)

International Anesthesia Research Society (IARS) Clinical and Scientific Conference, San Francisco, March 2006

Non-obstetric surgery during pregnancy (review course lecture)
SOAP session: Panel on the management of high risk patients in obstetrics

Santa Teresa Hospital, San Jose, California, March 2006.

Grand Rounds: Non-obstetric surgery during pregnancy

Stanford University Resident's Regional Anesthesia Workshop, Stanford, October 2005

Santa Joana Hospital Obstetric Anesthesia Meeting, Sao Paulo, Brazil April 2005.

Is there a place for remifentanyl in current obstetric anesthesia?

Ultra-low PCEA for Labor Analgesia: Good medicine, good marketing or both?

New options in the management of post-cesarean pain

Texas Anesthesia Conference for Obstetrics (TACO) Meeting, Houston, Texas, March 2005

Long-acting neuraxial opioids for labor and post-cesarean analgesia

Stanford University Resident's Regional Anesthesia Workshop, Stanford, October 2004

Stanford University Resident's Refresher Course, Stanford, June 2004

Society for Obstetric Anesthesia and Perinatology (SOAP) Annual Scientific Meeting, Florida, May 2004: "Breakfast with the Experts" Case Discussion

The Sol Shnider Obstetrical Anesthesia Meeting, San Francisco, March 2004.

Spinal Cocktails for Cesarean Section: Which Drugs and How Much?

Post Cesarean Section Analgesia: Breastfeeding Considerations

Texas Anesthesia Conference for Obstetrics (TACO) Meeting, Houston, Texas, February 2004.

Spinal Cocktails for Cesarean Section: Which Drugs and How Much?

Systemic Opioids: Is There a Place for Remifentanyl PCA in Current Obstetric Practice?

Ultra-low PCEA for Labor Analgesia

New Options: Management of Post Cesarean Pain

(Revised October 18, 2018)