Stanford



Pervez Sultan

Professor of Anesthesiology, Perioperative and Pain Medicine (Obstetrics) and, by courtesy, of Obstetrics and Gynecology

NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

- **Center for Academic Medicine Pediatric Anesthesia**

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Bio

BIO

Dr. Pervez Sultan is a Professor in the Department of Anesthesiology, Perioperative and Pain Medicine and (By Courtesy) in the department of Obstetrics and Gynecology at Stanford University School of Medicine. He is also an Honorary Professor at University College London in the department of Targeted Intervention. His research interests include defining, characterizing, measuring and improving postpartum recovery.

He has authored over 200 peer reviewed publications and presented the Ostheimer Lecture at the 2023 Society for Obstetric Anesthesia and Perinatology annual meeting.

Dr. Sultan is an NIH funded researcher. He is the principal investigator for 2 R01 grants: one developing and validating a measure for postpartum sleep and another exploring interventions for PTSD after childbirth. He is also a co-investigator for a Maternal Centers of Excellence U54 award exploring Inequities in Hemorrhage-related Severe Maternal Morbidity and is a Co-Investigator on a T90 / R90 grant.

Dr. Sultan is an elected member of the Association of University Anesthesiologists. He served on the Society for Obstetric Anesthesia and Perinatology (SOAP) Board as the Director from Academic Practice, and currently serves on the Research Committee.

Dr. Sultan is a former Arline and Pete Harman Endowed Faculty Scholar of the Stanford Maternal and Child Health Research Institute at Stanford University and a previous recipient of the UK National Institute of Academic Anesthesia Research Award.

NIH Bibliography: https://www.ncbi.nlm.nih.gov/myncbi/pervez.sultan.1/bibliography/public/

Researchgate profile: https://www.researchgate.net/profile/Pervez_Sultan2

Google Scholar profile: https://scholar.google.com/citations?user=Z2ftv_IAAAAJ&hl=en

Twitter: @PervezSultanMD

CLINICAL FOCUS

- Anesthesia
- Obstetric Anesthesia

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Anesthesiology, Perioperative and Pain Medicine
- Professor-Univ Med Line (By courtesy), Obstetrics & Gynecology - Maternal Fetal Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Mentorship award finalist, Society for Obstetric Anesthesia and Perinatology (SOAP) (2026)
- Service Award, Society for Obstetric Anesthesia and Perinatology (SOAP) (2026)
- Staff Impact Award, Lucile Packard Children's Hospital (Stanford Healthcare) (2026)
- Teacher of the Year (>10 years), Society of Obstetric Anesthesia and Perinatology (2026)
- Mentorship award finalist, Society for Obstetric Anesthesia and Perinatology (SOAP) (2025)
- Best paper award, Oral Finalist (middle author), Society of Obstetric Anesthesia and Perinatology, New Orleans (2023)
- Best paper award, Oral Finalist (senior author), Society of Obstetric Anesthesia and Perinatology, New Orleans (2023)
- Ostheimer Lecture: What's new in Obstetric Anesthesia? 2023, Society of Obstetric Anesthesia and Perinatology, New Orleans (2023)
- Best paper award, Oral Finalist, Obstetric Anaesthesia Association, Newport, UK (2022)
- Gertie Marx award (senior author). 1st prize, Society of Obstetric Anesthesia and Perinatology, Chicago (2022)
- Best paper award, Society for Obesity and Bariatric Anaesthesia (SOBA) (2019)
- Best paper award, Oral finalist, British Journal of Anaesthesia research forum, Royal College of Anaesthetists, London, UK (2018)
- Best paper award. Oral finalist, Obstetric Anaesthesia Association, Belfast (2018)
- 2nd place poster prize, Association of Anaesthetists of Great Britain and Ireland, Winter scientific meeting, London, UK (2017)
- Best poster prize., Society of Obstetric Anesthesia and Perinatology meeting, Seattle (2017)
- 1st place poster prize., Obstetric Anaesthesia Association meeting, Manchester. (2016)
- Clinical Excellence Award, University College London Hospital, UK (2016)
- National Institute of Academic Anaesthesia Research award, Royal College of Anaesthetists, London, UK (2016)
- Best paper award., Society of Obstetric Anesthesia and Perinatology meeting, Toronto (2014)
- Best paper award. Oral finalist, Obstetric Anaesthesia Association, Dublin (2014)
- Best paper award, Oral finalist., Society of Obstetric Anesthesia and Perinatology meeting, San Juan, Puerto Rico (2013)
- 1st place poster prize., 5th London Peri-operative Trainee Research Forum (2012)
- 2nd place history prize., Society of Obstetric Anesthesia and Perinatology meeting, Monterey (2012)
- 3rd prize Gertie Marx research award, Society of Obstetric Anesthesia and Perinatology meeting, Monterey (2012)
- Best paper award, Canadian Anesthesiologists' Society meeting, Quebec (2012)
- Best paper award, Oral finalist., Obstetric Anaesthesia Association meeting, Liverpool (2012)
- Young historians' essay competition. Oral finalist., International Symposium on the History of Anaesthesia, Sydney, Australia (2012)
- 1st Prize in C. Ronald Stephen Resident's Essay Contest., Anaesthesia History Association, Grapevine, Texas, USA (2011)
- Best case report., Society of Obstetric Anesthesia and Perinatology, Las Vegas, USA (2011)
- Best paper, Oral finalist., Western anaesthesia residents' conference, Tucson, Arizona, USA (2011)

- Certificate of merit., Group of Anaesthetists in Training conference, Cardiff, UK (2010)
- 2nd place poster prize., South East. Scotland Society of Anaesthesia Annual Trainees' Meeting, Dunfermline, UK (2006)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board Director from Academic Practice, Society of Obstetric Anesthesiology and Perinatology (2023 - 2026)
- Annual Meeting and Live Events Committee, Society of Obstetric Anesthesiology and Perinatology (2022 - 2026)
- Vice chair of the ASA Abstract Review Subcommittee on Obstetric Anesthesia and Perinatology, American Society of Anesthesiologists (2022 - 2026)
- Annual Meeting and Live Events Committee intersociety sub-committee chair, Society of Obstetric Anesthesiology and Perinatology (2022 - 2025)
- Curriculum Committee, Society of Obstetric Anesthesiology and Perinatology (2022 - 2025)
- Working group for 'Antenatal provision of high-risk obstetric anesthesia clinics', American Society of Anesthesiologists Committee on obstetric anesthesia (2022 - 2022)
- Working group for 'Statement on metrics', American Society of Anesthesiologists Committee on obstetric anesthesia (2022 - 2022)
- Abstract Review Subcommittee on Obstetric Anesthesia, International Anesthesia Research Society (2021 - 2025)
- Working group for 'Reducing Maternal Peripartum Racial and Ethnic Disparities in Anesthesia Care: Statement and Recommendations,', American Society of Anesthesiologists Committee on obstetric anesthesia (2021 - 2022)
- Working group for 'Statement on post-dural puncture headache management', American Society of Anesthesiologists Committee on obstetric anesthesia (2021 - 2022)
- Abstract Review Subcommittee on Obstetric Anesthesia and Perinatology, American Society of Anesthesiologists (2020 - present)
- Obstetric Anesthesia Subcommittee member, American Society of Anesthesiologists (2020 - 2024)
- Working group for 'Guidelines for Neuraxial analgesia or anesthesia in obstetrics.', American Society of Anesthesiologists Committee on obstetric anesthesia (2020 - 2021)
- Steering committee member formulating guidelines for enhanced recovery after cesarean delivery, Society of Obstetric Anesthesiology and Perinatology (2019 - 2021)
- Research committee member, Society of Obstetric Anesthesiology and Perinatology (2018 - present)
- International Outreach Committee, Society of Obstetric Anesthesiology and Perinatology (2018 - 2021)
- Steering committee member formulating guidelines for postoperative monitoring following neuraxial opioid administration in obstetrics, Society of Obstetric Anesthesiology and Perinatology (2017 - 2018)

PROFESSIONAL EDUCATION

- MD (Res), University College London, UK , Molecular mechanisms of postoperative lymphopenia (2016)
- FRCA, Royal College of Anaesthetists, London, UK , Board Certification (2007)
- MBChB, University of Edinburgh (2003)
- Fellowship: North Central London Training Number (2013) England
- Residency: SE Scotland SHO Anaesthesia Rotation (2007) Scotland
- Residency: Wythenshawe Hospital Accident and Emergency (2005) England
- Internship: University Of Edinburgh Western General Hospital (2004) Scotland

LINKS

- researchgate: https://www.researchgate.net/profile/Pervez_Sultan2
- Twitter: https://twitter.com/PervezSultanMD
- Google Scholar: https://scholar.google.com/citations?user=Z2ftv_IAAAAJ&hl=en

Research & Scholarship

RESEARCH INTERESTS

- Collaborative Learning

CLINICAL TRIALS

- Reducing Chronic Pain Following Cesarean Delivery, Recruiting
- Breath Metabolomics in the Laboring Parturient, Not Recruiting
- Evaluation of Inpatient Sleep and Activity Following Childbirth, Not Recruiting
- Immune and Physical Recovery Following Cesarean Delivery, Not Recruiting
- Early Intervention for Postpartum PTSD: Comparing Written Exposure and Capnometry-Guided Breathing Therapy - Phase 2, Not Specified

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Guillermina Ferrea, Aleesha Jethwa

Publications

PUBLICATIONS

- **Development and Validation of the Stanford Obstetric Recovery Checklist (STORK): A Delphi Consensus and Multicenter Clinical Validation Study.** *JAMA network open*
  Sultan, P., Pandal, P., Murthy, A., Guo, N., Farber, M. K., Toledo, P., Higgins, N., Fiore, J. F., Domingue, B. W., Khorasani, E., Jensen, S. E., Lyell, D. J., Carvalho, et al
  2025; 8 (4): e255713

- **Quality of recovery following childbirth: a prospective, multicentre cohort study.** *Anaesthesia*
  O'Carroll, J. E., Zucco, L., Warwick, E., Arbane, G., Moonesinghe, S. R., El-Boghdadly, K., Guo, N., Carvalho, B., Sultan, P.
  2023

- **Expert Consensus Regarding Core Outcomes for Enhanced Recovery after Cesarean Delivery Studies: A Delphi study.** *Anesthesiology*
  Sultan, P., George, R., Weiniger, C. F., El-Boghdadly, K., Pandal, P., Carvalho, B., CRADLE Study Investigators, Ansari, J. R., Benhamou, D., Baluku, M., Bernstein, P. S., Bollag, L. A., Bowden, S. J., et al
  2022

- **Use of Patient-Reported Outcome Measures to Assess Outpatient Postpartum Recovery: A Systematic Review.** *JAMA network open*
  Sultan, P., Sharawi, N., Blake, L., Ando, K., Sultan, E., Aghaeepour, N., Carvalho, B., Sadana, N.
  2021; 4 (5): e2111600

- **Evaluation of inpatient postpartum recovery using the Obstetric Quality of Recovery-10 patient-reported outcome measure: a single-center observational study.** *American journal of obstetrics & gynecology MFM*
  Sultan, P. n., Kamath, N. n., Carvalho, B. n., Bansal, P. n., Elkhateb, R. n., Dougan, S. n., Whittington, J. n., Guo, N. n., El-Sayed, Y. n., Mhyre, J. n., Sharawi, N. n.
  2020; 2 (4): 100202

- **Evaluation of Domains of Patient-Reported Outcome Measures for Recovery After Childbirth: A Scoping and Systematic Review.** *JAMA network open*
  Sultan, P. n., Sadana, N. n., Sharawi, N. n., Blake, L. n., El-Boghdadly, K. n., Falvo, A. n., Ciechanowicz, S. n., Athar, W. n., Shah, R. n., Guo, N. n., Jensen, S. n., El-Sayed, Y. n., Cella, et al
  2020; 3 (5): e205540

- **Corrigendum to "Guidelines for antenatal and preoperative care in cesarean delivery: Enhanced Recovery After Surgery Society recommendations (part 1), 2025 update" [American Journal of Obstetrics & Gynecology 233 (2026) S153-S169.** *American journal of obstetrics and gynecology*
  Wilson, R. D., Monks, D. T., Sharawi, N., Bamber, J., Panelli, D. M., Sauro, K. M., Shah, P. S., Muraca, G. M., Metcalfe, A., Wood, S. L., Jago, C. A., Daly, S., Blake, et al
  2026
- **Reply to "The 'adequate sleep opportunity' criterion in postpartum insomnia: non-discriminating, not merely too strict".** *Journal of clinical sleep medicine : JCSM : official publication of the American Academy of Sleep Medicine*
  Takenoshita, M., Sultan, P., Manber, R.
  2026; 22 (1)
- **Risk factors for positive depression screening at 6#weeks postpartum: a single center retrospective cohort study (2014-2023).** *International journal of obstetric anesthesia*
  Jethwa, A. J., Guo, N., Harrison, N., Chakraborty, D., Carvalho, B., Panelli, D. M., Sultan, P.
  2026; 68: 105300
- **A Multicentre Assessment of Factors Associated With Worse Postpartum Recovery Using the STanford Obstetric Recovery checKlist (STORK).** *Journal of obstetrics and gynaecology Canada : JOGC = Journal d'obstetrique et gynecologie du Canada : JOGC*
  Callihan, P., Takenoshita, M. K., Guo, N., Carvalho, B., Panelli, D. M., Sultan, P.
  2026: 103541
- **Antepartum obstructive sleep apnea screening and its association with postpartum respiratory depression: a retrospective cohort study (2020-2025).** *International journal of obstetric anesthesia*
  Zhang, P., Guo, N., Abir, G., Xie, J., Sultan, P., Carvalho, B.
  2026; 68: 105294
- **Burden of chronic postsurgical pain after caesarean delivery on maternal quality of life: a systematic review.** *Anaesthesia*
  Alwahabi, S., Joy, R. R., Marshall, P., Blake, L., Carvalho, B., Sultan, P., Ciechanowicz, S.
  2026
- **Minimal clinically important difference and psychometric properties of the Obstetric Quality of Recovery-10 measure: a systematic review and network meta-analysis.** *Anaesthesia*
  Takenoshita, M., Ghimire, S., Tian, L., Jethwa, A., Callihan, P., Karkri, F., Blake, L. E., Sultan, P.
  2026
- **Inpatient activity and sleep following vaginal versus scheduled cesarean delivery using actigraphy: an observational pilot study.** *International journal of obstetric anesthesia*
  O'Carroll, J. E., Yarmosh, A., Ando, K., Im, M. J., Shu, C. H., Aghaeepour, N., Druzin, M., Panelli, D. M., Carvalho, B., Sultan, P.
  2026; 68: 105274
- **Insomnia disorder at 6 weeks postpartum: a prospective study.** *Journal of clinical sleep medicine : JCSM : official publication of the American Academy of Sleep Medicine*
  Takenoshita, M., Jalali-Sohi, A., Hidajat, N. Z., Michel, G., Guo, N., Manber, R., Lyell, D. J., Barwick, F., Morris, A. M., Moody, H., Elkhateb, R., Mhyre, J., Cella, et al
  2026; 22 (1)
- **Pain during Cesarean Delivery: Reply.** *Anesthesiology*
  O'Carroll, J., Conti, D., Carvalho, B., Sultan, P.
  2026
- **Time to ELEVATE Our Anesthesia Care for Cesarean Delivery.** *Anesthesia and analgesia*
  Carvalho, B., Sultan, P.
  2026
- **A single center cross-sectional study examining the prevalence of inpatient postpartum anxiety and post-traumatic stress symptoms using the State-Trait Anxiety Inventory and Post-Traumatic Stress Disorder Checklist for DSM-5.** *Medical research archives*
  Sotillo, C. L., Michel, G., Shah, S., Smith, M., Ciechanowicz, S., Bekemeyer, Z., Jethwa, A. J., Carvalho, B., Guo, N., Ostacher, M. J., Kaysen, D. L., Panelli, D. M., Sultan, et al
  2026; 14 (8)

- **Patient outcomes following positive depression screening in a postpartum clinic: A single center retrospective cohort study.** *Medical research archives*
  Jethwa, A. J., Guo, N., Harrison, N., Chakraborty, D., Mendoza, K., Kii, N., Carvalho, B., Panelli, D. M., Sultan, P.
  2026; 14 (7)

- **Enhanced recovery after surgery (ERAS®) society guidelines for gynecologic oncology: 2026 update.** *Gynecologic oncology*
  Nelson, G., Altman, A. D., Metcalfe, A., Fotopoulou, C., Taylor, J., Glaser, G., Bakkum-Gamez, J., Kumar, A., Meyer, L. A., Stone, R., Mena, G., Elias, K. M., Bisch, et al
  2026; 210: 153-173

- **Biopsychosocial predictors of chronic pain after caesarean delivery: a prospective cohort evaluation of the SPACE (Sleep, Pain, Affect, Cognition, Energy)-Postpartum framework.** *BJA open*
  Ciechanowicz, S., Michel, G., Panigrahy, N., Sukhdeo, H., Carvalho, B., Sultan, P.
  2026; 18: 100560

- **Postpartum Plasma-Derived Exosomes Confer Mitochondrial Stabilization and Neuroprotection against Ischemic Stroke.** *Research square*
  Sun, X., Xu, L., Greer, M., McMillan, E., Arvola, O., Sultan, P., Ando, K., Min, J. J., Chavda, V., Wolf, J., Mahajan, V., Carvalho, B., Stary, et al
  2026

- **Association Between Delivery Mode and Postpartum Psychiatric Conditions.** *Obstetrics and gynecology*
  Kruger, S. L., Perlman, N., Sherwin, E. B., Leggett, C. B., El-Sayed, Y. Y., Lyell, D. J., Main, E. K., Wisner, K. L., Sultan, P., Leonard, S. A., Panelli, D. M.
  2026

- **Intraoperative dexamethasone and risk of postoperative infection after cesarean delivery: a retrospective cohort study.** *International journal of obstetric anesthesia*
  Cho, E., Jethwa, A. J., Sultan, P., Guo, N., Chakraborty, D., Harrison, N., Stanwyck, C., Carvalho, B.
  2026; 67: 105208

- **Evaluation of PROMIS Sleep Disturbance Item Bank for Postpartum Insomnia Disorder Screening**
  Hidajat, N., Takenoshita, M., Michel, G., Jalali-Sohi, A., Manber, R., Lyell, D., Mhyre, J., Cella, D., Shaunfield, S., Mackey, S., Tian, L., Carmichael, S., Tang, et al
  OXFORD UNIV PRESS INC.2026: A184

- **Risk Factors Associated with Development of Insomnia Disorder up to 12 Months Postpartum**
  Takenoshita, M., Guo, N., Sultan, P., Manber, R.
  OXFORD UNIV PRESS INC.2026: A188

- **Characterizing Postpartum Sleep and the Prevalence of Postpartum Insomnia Disorder**
  Takenoshita, M., Jalali-Sohi, A., Hidajat, N., Manber, R., Guo, N., Michel, G., El-Khateb, R., Mhyre, J., Cella, D., Shaunfield, S., Tang, X., Carmichael, S., Tian, et al
  OXFORD UNIV PRESS INC.2026: A183

- **Use of a single pain coping skills session (Empowered Relief) for outpatient postpartum pain following cesarean delivery: a pilot feasibility study.** *International journal of obstetric anesthesia*
  Jethwa, A., Nguyen, N., Michel, G., Simons, L. E., Rabbitts, J., Panelli, D. M., Darnall, B. D., Sultan, P.
  2026; 67: 105190

- **Enhanced recovery after Caesarean delivery. Part 2: postoperative considerations and quality indicators.** *BJA education*
  Takenoshita, M., Yau, N., Desai, N., Sultan, P.
  2026; 26 (4): 178-186

- **The Methodology of Adapting a Single-Session Pain Skills Intervention (Empowered Relief®) for the Context of Peripartum Pain**
  Jethwa, A., Takenoshita, M., Simons, L., Rabbitts, J., Sultan, P., Darnall, B.
  CHURCHILL LIVINGSTONE.2026

- **Enhanced Recovery in Obstetrics.** *Obstetrics and gynecology clinics of North America*
  Desai, N., Ferrea, G., Sultan, P.
  2026; 53 (1): 65-89

- **Enhanced recovery after Caesarean delivery. Part 1: preoperative and intraoperative considerations.** *BJA education*

Yau, N. W., Takenoshita, M. K., Sultan, P., Desai, N. K.
2026; 26 (3): 111-120

- **Do Large Language Models Perform Equally Across Languages? A Comparison of Responses to Frequently Asked Questions in Anesthesiology.** *Medical science monitor : international medical journal of experimental and clinical research*
  Yörükoğlu, H. U., Aksu, C., Sultan, P., Tulgar, S.
  2026; 32: e951815
- **Prevalence of and Risk Factors for Postpartum Anxiety in a U.S. Cohort With Commercial Insurance.** *Obstetrics and gynecology*
  Smith, M., Koons, N. J., Callihan, P., Guo, N., Simard, J. F., Gardner, R. M., Carvalho, B., Bateman, B. T., Leonard, S. A., Sultan, P.
  2026
- **A Multicenter Assessment of Postpartum Recovery Using the STanford Obstetric Recovery Checklist.** *Journal of obstetrics and gynaecology Canada : JOGC = Journal d'obstetrique et gynecologie du Canada : JOGC*
  Takenoshita, M., Guo, N., Carvalho, B., Leonard, S. A., Panelli, D. M., Farber, M. K., Toledo, P., Higgins, N., Sultan, P.
  2026: 103233
- **Inpatient postpartum recovery following episiotomy: secondary outcomes of a prospective observational study** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
  Ben Hayoun, D. H., Sultan, P., Eshel, R., Guo, N., Carvalho, B., Weiniger, C. F.
  2026; 65
- **Inpatient postpartum recovery following episiotomy: secondary outcomes of a prospective observational study.** *International journal of obstetric anesthesia*
  Hayoun, D. H., Sultan, P., Eshel, R., Guo, N., Carvalho, B., Weiniger, C. F.
  2026; 65: 104798
- **A comparative evaluation of the quality of responses provided by different large language model chatbots to frequently asked questions regarding nerve blocks.** *BMC anesthesiology*
  Tulgar, S., Aksu, C., Selvi, O., Sultan, P., Dogan, A. T., Yörükoğlu, H. U., Thomas, D. T., Ahiskalioglu, A.
  2026
- **Intraoperative pain during cesarean delivery: reflections and next steps.** *International journal of obstetric anesthesia*
  Sultan, P., Carvalho, B., Landau, R.
  2025; 65: 104828
- **Quality improvement methodology used in enhanced recovery after caesarean delivery implementation studies: a narrative review and author survey.** *BMJ open quality*
  Fedoruk, K., Carvalho, B., Blake, L., Sultan, P.
  2025; 14 (4)
- **Incidence of pain during cesarean delivery with neuraxial anesthesia: an international, prospective cohort study.** *Anesthesiology*
  O'Carroll, J. E., Conti, D., Gao, N., Carvalho, B., Sultan, P.
  2025
- **Adverse childhood experiences and post-cesarean pain and in-hospital opioid use: a prospective cohort study.** *International journal of obstetric anesthesia*
  Joudi, N., Reddy, N. S., Sherwin, E. B., Markwei, M., Hurtado, J., Simpson, S. L., Burgess, J. J., Leonard, S. A., Schultz, M., Carvalho, B., Sultan, P., Bianco, K., Panelli, et al
  2025; 65: 104822
- **Patient experiences of chronic postsurgical pain after caesarean delivery: findings from a prospective qualitative study.** *International journal of obstetric anesthesia*
  Ciechanowicz, S., Callihan, P., Michel, G., Panelli, D. M., Carvalho, B., Sultan, P.
  2025; 65: 104817
- **Quantification of breath metabolites in labouring versus non-labouring patients: a feasibility study** *BRITISH JOURNAL OF ANAESTHESIA*
  Hengelage, J., Fowler, C., Goldsberry, M. D., Stockert, E., Bekemeyer, Z., Lee, H., Wagner, N., Sultan, P., Carvalho, B., Gross, E. R.
  2025; 135 (5): 1373-1375

- **Professional society recommended interventions for enhanced recovery after cesarean delivery in the United States: a multidisciplinary Delphi study.** *International journal of obstetric anesthesia*
  Sultan, P., Nelson, G., Joudi, K., Singh, D. J., Gregory, K. D., Zakowski, M., Carvalho, B.
  2025; 65: 104811

- **Proposed domains of postpartum sleep: a concept elicitation study using qualitative interviews.** *Sleep advances : a journal of the Sleep Research Society*
  Bekemeyer, Z., Takenoshita, M., Michel, G., Martinez, E., Callihan, P., Tang, X., Ciechanowicz, S., Manber, R., Lyell, D., Panelli, D., Morris, A., Elkhateb, R., Mhyre, et al
  2025; 6 (4): zpaf068

- **Opioid consumption and pain scores following perineal lacerations: a retrospective cohort study 2019-2023.** *International journal of obstetric anesthesia*
  Squires, L., Carvalho, B., Sultan, P., Fedoruk, K.
  2025; 65: 104789

- **Antibiotic Prophylaxis in Obese Patients Undergoing Cesarean Delivery (Reply to Letter-to-the-Editor).** *American journal of obstetrics and gynecology*
  Caughey, A. B., Sultan, P., Wilson, R., Nelson, G.
  2025

- **Neuraxial morphine key factor influencing optimal timing of urinary catheter removal after cesarean delivery (Reply to Letter-to-the-Editor).** *American journal of obstetrics and gynecology*
  Sultan, P., Ferrea, G., Nelson, G.
  2025

- **Quantification of breath metabolites in labouring versus non-labouring patients: a feasibility study.** *British journal of anaesthesia*
  Hengelage, J., Fowler, C., Goldsberry, M. D., Stockert, E., Bekemeyer, Z., Lee, H., Wagner, N. M., Sultan, P., Carvalho, B., Gross, E. R.
  2025

- **Chronic postsurgical pain after caesarean delivery: should we care about pain incidence and intensity or pain interference?** *Anaesthesia*
  Landau, R., Sultan, P.
  2025

- **Intraoperative pain during cesarean delivery: a qualitative concept elicitation study.** *International journal of obstetric anesthesia*
  Callihan, P., Cottrell Bekemeyer, Z. J., Pedreira, R., Michel, G., Sukhdeo, H., O'Carroll, J., Carvalho, B., Martinez, E., Sultan, P.
  2025; 64: 104748

- **Raising the bar: the next chapter in enhanced recovery after cesarean delivery.** *International journal of obstetric anesthesia*
  Sultan, P., Bollag, L., Carvalho, B., Nelson, G.
  2025; 64: 104745

- **Neuraxial anesthesia and pain management for cesarean delivery.** *American journal of obstetrics and gynecology*
  Landau, R., Sultan, P.
  2025

- **Development and validation of a multivariable model for predicting prolonged length of stay following caesarean delivery.** *International journal of obstetric anesthesia*
  O'Carroll, J. E., Zucco, L., Warwick, E., Radcliffe, G., Moonesinghe, S. R., Tian, L., Cai, B., El-Boghdadly, K., Guo, N., Carvalho, B., Sultan, P.
  2025; 64: 104725

- **Snapshot of Obstetric National Audit and Research Project (SONAR1): aprotocol for an international observational cohort study.** *BMJ open*
  Patel, R., O'Carroll, J., Kua, J., Sultan, P., Carvalho, B., El Sharawi, N., Eley, V., O'Brien, P., Stanford, S., Hill, S., Craig, R., Lucas, N., Hou, et al
  2025; 15 (6): e103525

- **Improving epidemiology synthesis of postpartum complications: methodological considerations.** *American journal of obstetrics and gynecology*
  Bone, J. N., Chen Ke, J. X., Wong, M., Dol, J., Chau, A., Carvalho, B., Zhang, Q., Sultan, P.
  2025

- **Delphi study to develop a core outcome set for inpatient pain assessment after cesarean delivery.** *Anaesthesia, critical care & pain medicine*

Ciechanowicz, S., Carvalho, B., Berger, J., Duch, P., Flood, P., Ffrench-O'Carroll, R., Sviggum, H., Hakimi, S., Jethava, D., Mieszkowski, M., Merriam, A., Osmundson, S., Ituk, et al
2025: 101556

- **Frequency and timing of complications within the first postpartum year in the United States and Canada: A systematic review and meta-analysis.** *American journal of obstetrics and gynecology*
  Chen Ke, J. X., Bilan, K., Vidler, M., Wong, M., Chau, A., Zhang, Q., Bone, J. N., Enriquez, A., Sandhu, R., George, R. B., Baron, R. A., Lakda, A. M., Dol, et al
  2025
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- **A practical guide to undertaking out of programme experience in the United States of America.** *British journal of hospital medicine*
  Sultan, P., Qadan, M., Pushpanathan, E., Carvalho, B.
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- **What makes a good anaesthetist?**
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- **The intensive care unit handover: the most stressful part of the shift.** *British journal of hospital medicine (London, England : 2005)*
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- **Anaesthesia for the bleeding tonsil.** *British journal of hospital medicine (London, England : 2005)*
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- **Not just a patient that snores. Obstructive sleep apnoea: the perioperative concerns through the eye of the anaesthetist.** *Journal of perioperative practice*
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- **Regional anaesthesia for caesarean section: a choice of three techniques.** *British journal of hospital medicine (London, England : 2005)*
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- **Is there a role for thiopentone in modern anaesthetic practice?** *British journal of hospital medicine (London, England : 2005)*
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- **Is cricoid pressure needed during rapid sequence induction?** *British journal of hospital medicine (London, England : 2005)*
  Sultan, P.
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- **Anaesthetic rooms: luxury or necessity?** *British journal of hospital medicine (London, England : 2005)*
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- **Contamination of anaesthetic machines with pathogenic organisms.** *Anaesthesia*
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PRESENTATIONS

- 2015 Obstetric Anaesthesia Association Cases & Controversies Meeting: A challenging category 2 section. - Obstetric Anaesthesia Association Cases and controversies meeting (2015)
- 2015 Obstetric Anaesthesia Association Update: Spinal anaesthesia for caesarean section. - Obstetric Anaesthesia Association update meeting (2015)
- 2015 Royal College of Anaesthetists Research Day: Lab research towards a higher degree. Introduction to Anaesthesia - National Institute of Academic Anaesthesia and Pan-London Academic Anaesthesia Training Advisory Group, London (2015)
- 2016 How I became a specialist: Obstetrics. After the Final Fellowship of the Royal College of Anaesthetists course - Royal College of Anaesthetists (2016)
- 2016 Washington University, St. Louis Grand Rounds: Mechanisms of perioperative lymphopenia - Washington University, (2016)
- 2017 OAA Cases and Controversies Meeting: Think big and THRIVE. - Obstetric Anaesthesia Association cases and controversies meeting (2017)
- 2017 SOAP Enhanced Recovery Panel: Warming as part of enhanced recovery after cesarean delivery - Society of Obstetric Anesthesiology and Perinatologymeeting (2017)
- 2017 Stanford University Grand Rounds: From lymphocyte dysfunction to epidural related maternal fever. - Stanford University Department of Anesthesia Grand Round Presentation (2017)
- 2019 SOAP Research Hour: Defining, evaluating and influencing recovery after cesarean delivery. - Society for Obstetric Anesthesia and Perinatology (2019)
- 2019 IARS Expert Panel: Attaining the opioid-free cesarean delivery - IARS meeting (2019)
- 2020 Stanford University Morbidity and Mortality Working Group: Measuring postpartum recovery - Stanford Morbidity and Mortality Working Group (October 5, 2020)
- 2020 Brigham and Women's Hospital Grand Round: Defining, measuring and characterizing postpartum recovery - Brigham and Women’s Hospital. (October 19, 2020)
- 2020 University of Arkansas for Medical Sciences Grand Round: Postpartum recovery - UAMS (2020)
- 2021 Stanford Anesthesia Data Blitz: Measuring postpartum recovery - Stanford Anesthesia Data Blitz (3/5/2021)
- 2021 Columbia University Grand Rounds: What does it take to get back to a baseline? - Columbia University Obstetric Anesthesia Grand Rounds (3/10/2021)
- 2021 Yale University Grand Round: Metrics of postpartum recovery - Yale University Grand Rounds (4/16/2021 - 4/16/2021)
- 2021 Northwestern University Works in Progress Meeting: How can we measure Enhanced Recovery protocol success? - Northwestern University (4/30/2021 - 4/30/2021)
- 2021 National Journal Club (Brigham, Northwestern, Stanford, UAMS): Chloroprocaine versus Lidocaine for epidural top up? - Brigham Women's Hospital, Northwestern University, Stanford University and UAMS (4/28/2021 - 4/28/2021)
- 2021 Moderator for SOAP abstract presentations on POCUS and fetal surgery - SOAP 2021 Annual Meeting (5/16/2021 - 5/16/2021)
- 2021 EBPOM Meeting: Meaningful outcomes related to postpartum anemia - EBPOM Meetoing (Evidence Based Perioperatiove Medicine) (6/30/2021 - 6/30/2021)

- 2021 20th North West Obstetric Anaesthesia Forum Annual meeting: Obstetric recovery measures - 20th North West England Obstetric Anaesthesia Forum Annual meeting (7/7/2021 - 7/7/2021)
- 2021 OAA State of the Art Obstetric Anaesthesia meeting: Post Cesarean Analgesia: Is there a gold standard? - Virtual OAA meeting (12/1/2021 - 12/1/2021)
- 2021 Guy's and St Thomas' Hospital London Research Group Meeting: ObsQoR: A multicenter UK study - Guy's and St. Thomas' Hospital Research Group
- 2022 AWHONN Conference: Obstetric recovery (2/12/2022 - 2/12/2022)
- 2022 Japanese Association for Perinatal Anesthesiology: Enhancing recovery after cesarean delivery - Japanese Association for Perinatal Anesthesiology (3/13/2022 - 3/13/2022)
- 2022 UC Davis Grand Round: Enhanced recovery in obstetrics: Where are we now? - UC Davis (3/29/2022 - 3/29/2022)
- 2022 Santa Joana Obstetric Anesthesia Meeting: Enhancing Recovery After Cesarean Delivery - Santa Joana Obstetric Anesthesia Virtual Meeting (4/2/2022 - 4/2/2022)
- 2022 Santa Joana Obstetric Anesthesia Meeting: Post Caesarean Analgesia: An Evidence-based Approach - Santa Joana Obstetric Anesthesia Virtual Meeting (4/2/2022 - 4/2/2022)
- 2022 Santa Joana Obstetric Anesthesia Meeting: Live Q&A with the experts - Santa Joana Obstetric Anesthesia Virtual Meeting (4/2/2022 - 4/2/2022)
- 2022 CSA Meeting: Post Cesarean Delivery Analgesia: Is there a Gold Standard? - CSA Annual Meeting (4/8/2022 - 4/8/2022)
- 2022 Stanford University Department of Anesthesia Grand Round: Postpartum Recovery: What does it take to return to a baseline? - Department of Anesthesiology, Perioperative and Pain Medicine (4/18/2022 - 4/18/2022)
- 2022 ERAS Society Meeting: Impact of enhanced recovery after cesarean delivery on maternal outcomes - ERAS Society (6/1/2022 - 6/1/2022)
- 2022 SOAP Virtual Highlights: Post cesarean delivery pain management: What do we know and how do we do it? - SOAP Virtual Highlights Meeting (6/5/2022 - 6/5/2022)
- 2022 University College London Hospital Grand Round: A letter from Stanford to London - University College London Hospital (9/16/2022 - 9/16/2022)
- 2022 University of Virginia Grand Rounds: An update on optimal post cesarean delivery analgesia (11/23/2022 - 11/23/2022)
- 2022 University of Virginia Grand Rounds: Enhanced recovery - an update (11/23/2022 - 11/23/2022)
- 2023 SMFM Annual Meeting: Traumatic childbirth and psychological sequelae. - SMFM (2/8/2023 - 2/8/2023)
- 2022 ASA Annual Meeting: Making ERAC Work for You and Your Patients - ASA meeting (10/25/2022 - 10/25/2022)
- 2022 ASA Annual Meeting: Obstetric anesthesia oral abstract session moderator (10/22/2022 - 10/22/2022)
- 2023 Ostheimer Lecture: What's new in Obstetric Anesthesia? (5/6/2023)
- 2023 ERAS Society Meeting: Enhancing recovery in Obstetrics: New concepts and opportunities - ERAS Society Meeting (5/31/2023)
- 2023 Northwestern Obstetric Division: Postpartum recovery: New concepts and opportunities - Northwestern Obstetric Anesthesia Division (6/8/2023)
- 2023 11th Annual Dr. Harry and Mitzie P. Cohen Lectureship in Obstetrics and Anesthesiology - Northwestern University Grand Round (6/9/2023)
- 2023 Brigham & Women’s Hospital Grand Round: Ostheimer Lecture: What’s New in Obstetric Anesthesia - Brigham and Women's Hospital (9/13/2023)
- 2023 Massachusetts General Hospital Grand Round: What’s New in Obstetric Anesthesia - Massachusetts General Hospital (9/14/2023)
- 2023 ASA Annual meeting: The top papers in obstetric anesthesia that will change your practice (10/15/2023)
- 2023 ASA annual meeting: Intraoperative breakthrough pain - prevalence, risk factors and management - ASA meeting (10/14/2023)
- 2023 Royal Infirmary of Edinburgh Grand Round: Ostheimer Lecture: What’s New in Obstetric Anesthesia - Royal Infirmary Edinburgh anaesthesia department (10/27/2023)
- 2023 Obstetric Anaesthesia Association - 3 day course: What’s new in Obstetric anaesthesia? - Obstetric Ananesthesi aAssociation (9/22/2023)
- 2023 Obstetric Anaesthesia Association - 3 day course: Enhanced recovery in obstetrics - new concepts and opportunities - Obstetric Anaesthesia Association (11/21/2023)
- 2024 Emory University Grand Round: What’s New in Obstetric Anesthesia? (1/24/2024)
- 2024 Sheila Cohen Lecture: Stanford University Grand Round: What’s New in Obstetric Anesthesia? (3/11/2024)

- 2024 Santa Joana meeting, Brazil: Intraoperative Breakthrough Pain During Cesarean Delivery: Prevalence, Risk Factors & Management - Santa Joana Meeting - 28ª Jornada Internacional de Anestesia Obstetrica (3/23/2024)
- 2024 Santa Joana Meeting, Brazil: What's new in obstetric anesthesia? - 28ª Jornada Internacional de Anestesia Obstetrica (3/23/2024)
- 2024 Santa Joana Meeting, Brazil: Enhanced recovery after cesarean delivery: New concepts and opportunities - 28ª Jornada Internacional de Anestesia Obstetrica (3/23/2024)
- 2024 Oakbend Medical Center Grand Round. What's new in obstetric anesthesia? - Oakbend Medical Center grand round (4/26/2024)
- 2024 29th Resident's Day, UAMS. Intraoperative breakthrough pain. - UAMS, Arkansas. (4/29/2024)
- 2024 29th Resident's Day, UAMS. What's new in obstetric anesthesia? - UAMS, Arkansas (4/30/2024)
- 2023 SOAP Distinguished Service Award introduction (Dr. Brendan Carvalho) - SOAP Annual Meeting (4/30/2024)
- 2024 SOAP Ostheimer lecture introduction (Dr. Melissa Bauer) - SOAP Annual Meeting (April 30, 2024)
- 2024 Development and validation of the Stanford Obstetric Recovery checklist (STORK), SOAP meeting - SOAP annual meeting (4/30/2024)
- 2024 SOAP Research Panel: Study design - SOAP Annual Meeting (4/30/2024)
- 2024 NIH Pain Consortium Symposium: Maternal pain: New concepts and opportunities - NIH pain consortium symposium (5/30/2024 - 5/30/2024)
- 2024 Laura Simons' Lab Meeting - Postpartum recovery: If you can't measure it, you can't improve it. - Laura Simons Lab meeting (7/23/2024)
- 2024 What's new in obstetric anesthesia - YouTube premiere - Stanford CME (10/3/2024)
- 2025. What's new in OB anesthesia. Anesthesia Camp, Grand Cayman - Anesthesia Camp (1/28/2025)
- 2025. Enhanced recovery in obstetrics: new concepts and opportunities. World Congress of Obstetric Anesthesia. Medellin, Colombia 2025 - World Congress of Obstetric Anesthesiology (8/29/2025)
- 2025 Planetary health: environmental sustainability in obstetric anesthesia. World Congress of Obstetric Anesthesia. Medellin, Colombia - World Congress of Obstetric Anesthesiology (8/29/2025)
- 2025 Stanford Obstetric Grand Rounds. Anesthesia and postpartum recovery: new concepts and opportunities. Stanford University School of Medicine, Palo Alto, California - Stanford Obstetric Grand Round (9/8/2025 - 9/8/2025)
- 2025 ERAS Society Annual Meeting: ERAS guidelines for cesarean delivery - a 2025 update - ERAS Society (9/18/2025 - 9/18/2025)
- 2025 ASA Meeting: What Are We Supposed To Be Doing On OB?Capturing Metrics And Updating Your Practice - ASA annual meeting (10/11/2025 - 10/11/2025)
- 2025 CMQCC OB / RN QI leadership update. Postpartum recovery - new opportunities (10/24/2025)
- 2025 ACOG Foundation: Alliance Clinical Excellence - ERAS Guidelines for postoperative care in cesarean delivery (11/4/2025)
- 2025 SOAP Professional Excellence and Advancements Keys (PEAK): Climbing to the top through Quality Improvement. Patient-reported outcome measures in obstetrics (Webinar) - SOAP Professional Excellence and Advancements Keys (PEAK): Climbing to the top through Quality Improvement. (11/13/2025 - 11/13/2025)
- 2025 ACOG Foundation: Alliance Clinical Excellence -Implementing and Sustaining Enhanced Recovery After Cesarean (ERAC) in Care (11/17/2025 - 11/17/2025)
- 2025 Stanford T90 Lecture series - How to write an abstract (12/1/2025 - 12/1/2025)
- 2026 IARS Annual meeting. Pain during cesarean delivery panel. Montreal, Canada. - IARS annual meeting (5/1/2026)
- 2026 SOAP abstract moderator. Patient voices and cesarean delivery. Montreal, Canada - SOAP annual meeting (5/2/2026)
- 2026 Edinburgh Anesthesia Festival. Enhanced recovery after cesarean delivery: a 2026 update - Edinburgh Anaesthesia Festival (8/20/2026)
- 2026 Edinburgh Anesthesia Festival. Intraoperative pain during cesarean delivery: new concepts and opportunities - Edinburgh Anesthesia Festival. (8/28/2026)
- 2026 Edinburgh Anesthesia Festival. What measures matter in obstetric anesthesia? - Royal College of Physicians, Edinburgh, Scotland, UK. (8/21/2026)
- 2026 ERAC Guidelines: a 2026 update, UC Davis Grand Round - UC Davis Grand Round (11/10/2026 - 11/10/2026)