

Stanford



Chi-Ho Ban Tsui

Professor of Anesthesiology, Perioperative and Pain Medicine (Adult-MSD)

CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Dr. Tsui completed his medical training at Dalhousie University, Halifax, in 1995 after obtaining his Masters of Science in Pharmacy in 1991. These degrees followed a Diploma in Engineering and Bachelors of Science in both Mathematics and Pharmacy. Dr. Tsui completed his anesthesia residency training at the University of Alberta Hospital in Edmonton in 2000, and he received further experience in pediatric anesthesia at British Columbia Children's Hospital in Vancouver. After 16 years of practice at the University of Alberta Hospital and Stollery Children's Hospital, Dr. Tsui was recruited to Stanford University in 2016.

Currently, Dr. Tsui is a University Medical Line Professor in the Department of Anesthesiology, Perioperative, and Pain Medicine at Stanford University. In his position as an adult and pediatric anesthesiologist at the Stanford University Medical Center and the Lucile Packard Children's Hospital, he specializes in regional anesthesia techniques.

Dr. Tsui is an avid and internationally recognized researcher in many areas of regional anesthesia. During his residency, Dr. Tsui developed an interest in improving the accuracy of epidural catheter placement and was issued a U.S. patent in relation to his research. Dr. Tsui has expanded his research into the use of ultrasound in regional anesthesia, with particular relevance to peripheral nerve block performance. Dr. Tsui is also responsible for development of the E-Catheter catheter-over-needle kit for use during peripheral nerve blocks. The primary objective of his research is to transform regional anesthesia from an "art" into a reliable and reproducible "science" by further exploring the basic scientific and clinical aspects of electrophysiological signal monitoring and integrating this with the latest advances in ultrasound.

Dr. Tsui has received the Alberta Heritage Foundation for Medical Research (AHFMR) Clinical Scholar award and has previously received research awards and grants from the Canadian Institutes of Health Research (CIHR), Canadian Anesthesiologists' Society, AHFMR, and University of Alberta. In 2015, a prestigious award, the CAS Research Recognition Award, was presented by the Canadian Anesthesiologists' Society to Dr. Tsui "in recognition of significant research contributions to regional anesthesia, acute pain management and pediatric anesthesia in Canada and around the world". In 2022, the American Society of Regional Anesthesia and Pain Medicine (ASRA) awarded Dr. Tsui, the Distinguish Service Award. This prestigious annual award has been presented to honor persons who have made remarkable contributions to the field of regional anesthesia and pain medicine.

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Anesthesiology, Perioperative and Pain Medicine

- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director of Pediatric Regional Anesthesia (SUPRA), LPCH, Stanford University, (2018- present)
- Director of Research, Regional Anesthesia Division, Department of Anesthesiology, Stanford University, (2018- present)
- Vice Chair (Research), Department of Anesthesiology and Pain Medicine, University of Alberta, (2009-2013)
- Regional Rotational Coordinator, Department of Anesthesiology and Pain Medicine, University of Alberta, (2006-2010)
- Member of Residency Training Committee, Department of Anesthesiology and Pain Medicine, University of Alberta, (2005-2010)
- Director of Clinical Research, Department of Anesthesiology and Pain Medicine, University of Alberta, (2003-2016)

HONORS AND AWARDS

- Distinguished Service Award, American Society of Regional Anesthesia (ASRA) and Pain Medicine (2022)
- Stanford-Coulter Translational Research Grant, Stanford University and Wallace H. Coulter Foundation (2019)
- CAS Research Recognition Award, Canadian Anesthesiologists' Society (2015)
- Dr. R A Gordon Research Award, Canadian Anesthesiologists' Society (2014-2015)
- University Hospital Foundation Medical Research Award, University Hospital Foundation (2014-2015)
- Alberta Heritage Clinical Scholar Award, Alberta Heritage Foundation for Medical Research (2014)
- Clinical Scholar Award, Alberta Heritage Foundation for Medical Research (2009-2016)
- Canadian Institutes of Health Research Operating Grant, Canadian Institutes of Health Research (2008-2011)
- CAS Career Scientist Award in Anesthesia, Canadian Anesthesiologists' Society (2008-2009)
- Smiths Medical Canada Ltd. Canadian Research Award in Pain Research and Regional Anesthesia, Canadian Anesthesiologists' Society (2008-2009)
- John Bradley Young Educator Award, Canadian Anesthesiologists' Society (2008)
- Alberta Heritage Clinical Investigator Renewal Award, Alberta Heritage Foundation for Medical Research (2005-2008)
- David S Sheridan Canadian Research Award, Canadian Anesthesiologists' Society (2004-2005)
- Sponsored Drug Trial, Purdue Pharma L.P. (2004)
- Best Research Abstract, The American Society of Regional Anesthesia (Annual Meeting) (2003)
- Clinical Investigator and Establishment Grant, Alberta Heritage Foundation for Medical Research (2002-2005)
- Sponsored Drug Trial, Abbott Laboratories Ltd. (2002-2003)
- Research Excellence Envelope, University of Alberta Faculty of Medicine and Dentistry (2001-2002)
- Annual Residents' Research Day (First Prize), Department of Anesthesiology and Pain Medicine, University of Alberta Hospital (2000)
- Resident Publication Prize (Clinical Category), Faculty of Medicine, University of Alberta (2000)
- Resident Publication Prize (Clinical Category), Faculty of Medicine, University of Alberta (1999)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Association of University Anesthesiologists (2017 - present)
- Member (Regional Anesthesia), Guidelines and Regulatory Advocacy Committee, American Society of Regional Anesthesia and Pain Medicine (2017 - present)
- Associate Editor, Regional Anesthesia and Pain Medicine (2006 - present)
- Editorial Board Member, Canadian Journal of Anesthesia (2006 - present)
- Chair, ASRA Ultrasound Committee, American Society of Regional Anesthesia and Pain Medicine (2013 - 2016)
- Member, Education Committee, American Society of Regional Anesthesia and Pain Medicine (2009 - 2016)
- Member, Research Committee, Association of Canadian University Departments of Anesthesia (ACUDA) (2006 - 2016)

- Research Member, Association of Canadian University Departments of Anesthesia (2000 - 2016)
- Member, Research Committee, American Society of Regional Anesthesia and Pain Medicine (2010 - 2013)
- Member, Annual Meeting Program Committee, American Society of Regional Anesthesia and Pain Medicine (2006 - 2007)
- Head, Regional Anesthesia and Acute Pain Section, Canadian Anesthesiologists' Society (2005 - 2007)
- Treasurer/Secretary, Regional Section, Canadian Anesthesiologists' Society (2002 - 2005)

PROFESSIONAL EDUCATION

- Postgraduate Diploma, University of Melbourne , Postgraduate Diploma in Perioperative and Critical Care Echocardiography - Anesthesia (2010)
- Board Certification, College of Physicians and Surgeons of British Columbia , Anesthesia (2001)
- Board Certification, Royal College of Physicians and Surgeons of Canada , Anesthesia (2000)
- Board Certification, Fellow of the Royal College of Physicians of Canada (FRCPC) , Anesthesia (2000)
- Board Certification, College of Physicians and Surgeons of Alberta , Anesthesia (2000)
- Residency, University of Alberta Hospital , Anesthesia (2000)
- Certificate, University of Alberta , Medical Acupuncture (1998)
- MD, Dalhousie University , Medicine (1995)
- MSc, Dalhousie University , Pharmacy (1991)
- BSc, Dalhousie University , Pharmacy (1987)
- BSc, Dalhousie University , Mathematics (1984)
- Diploma in Engineering, Dalhousie University , Engineering (1983)

PATENTS

- Chi-Ho Ban Tsui. "United States Apparatus and Methods for Assisting, Confirming, and monitoring Placement of Catheter in Patients (US patent filed)"
- Chi-Ho Ban Tsui. "United States Patent 20080242975 Device and method for locating a cannula that is inserted into a body", Jun 9, 2010
- Chi-Ho Ban Tsui. "United States Patent 20090210029 Device and method to position a cannula for nerve block", Aug 20, 2009
- Chi-Ho Ban Tsui. "United States Patent 20080058757 Catheter Set for Epidural or Peripheral Nerve Blockade", Mar 6, 2008
- Chi-Ho Ban Tsui. "United States Patent 6190370 Devices, systems and methods for determining proper placement of epidural catheter location", Feb 20, 2001

Research & Scholarship

CLINICAL TRIALS

- Interscalene Brachial Plexus Block Washout to Reverse Inadvertent Phrenic Nerve Blockade, Recruiting
- Magnesium for Peroral Endoscopic Myotomy, Recruiting
- SZMN Blocks for Pain Control in Pediatric Patients Undergoing T&A, Recruiting
- Dexmedetomidine Use in SZMN Blocks for Pediatric T&A Pain Control, Not Recruiting
- Diagnostic Accuracy of Core Stethoscope Auscultation vs. Point of Care Ultrasound in Placement of Endotracheal Tube, Not Recruiting
- Regional Anesthesia for Cardiothoracic Enhanced Recovery, Not Recruiting
- Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE) Use in Pediatric Procedures, Not Recruiting

Publications

PUBLICATIONS

- **Suprazygomatic infratemporal pterygopalatine fossa block with adjuvant low-dose dexmedetomidine for adenotonsillectomy.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*

Zoghbi, V., Okonski, F., Pan, S., Lin, C., Balakrishnan, K., Tsui, B. C.
1800

- **Deep extubation with no touch (DENT) technique.** *Journal of pediatric surgery*
Tsui, B. C.
2021
- **Opioid-Free Postoperative Pain Management After Adenotonsillectomy With Nasal Turbinate Reduction Using Bilateral Suprazygomatic Infratemporal-Pterygopalatine Fossa Injections: A Case Report.** *A&A practice*
Lin, C., Pan, S., Barros, V. R., Meister, K., Tsui, B. C.
2021; 15 (8): e01502
- **Standardizing nomenclature in regional anesthesia: an ASRA-ESRA Delphi consensus study of abdominal wall, paraspinal, and chest wall blocks.** *Regional anesthesia and pain medicine*
El-Boghdady, K., Wolmarans, M., Stengel, A. D., Albrecht, E., Chin, K. J., Elsharkawy, H., Kopp, S., Mariano, E. R., Xu, J. L., Adhikary, S., Altiparmak, B., Barrington, M. J., Bloc, et al
2021; 46 (7): 571-580
- **Opioid-Free Tonsillectomy With and Without Adenoidectomy: The Role of Regional Anesthesia in the "New Era".** *Anesthesia and analgesia*
Tsui, B. C., Pan, S., Smith, L., Lin, C., Balakrishnan, K.
2021; 133 (1): e7-e9
- **Epidural placement using catheter over needle: a cadaver study.** *Regional anesthesia and pain medicine*
Tsui, B. C., Elsharkawy, H., Mounir, L., Kolli, S., Narouze, S., Drake, R.
2021
- **Clinical effect of normal saline injectate into interscalene nerve block catheters given within one hour of local anesthetic bolus on analgesia and hemidiaphragmatic paralysis.** *Regional anesthesia and pain medicine*
Gerber, L. N., Sun, L. Y., Ma, W., Basireddy, S., Guo, N., Costouros, J., Cheung, E., Boublik, J., Horn, J., Tsui, B. C.
2020
- **Re-purposing a face tent as adisposable aerosol evacuation system to reduce contamination in COVID-19 patients: a simulated demonstration.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Tsui, B. C.
2020
- **Correction to: COVID-19 pandemic: the 3R's (reduce, refine, and replace) of personal protective equipment (PPE) sustainability.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Ip, V., Ozelsel, T. J., Sondekoppam, R. V., Tsui, B. C.
2020
- **Cervical erector spinae plane block: a cadaver study.** *Regional anesthesia and pain medicine*
Elsharkawy, H., Ince, I., Hamadnalla, H., Drake, R. L., Tsui, B. C.
2020
- **Systemic Absorption of Lidocaine from Continuous Erector Spinae Plane Catheters After Congenital Cardiac Surgery: A Retrospective Study.** *Journal of cardiothoracic and vascular anesthesia*
Caruso, T. J., Lin, C. n., O'Connell, C. n., Weiss, D. n., Md, G. B., Wu, M. n., Kwiatkowski, D. n., Maeda, K. n., Tsui, B. C.
2020
- **Practice advisory on the bleeding risks for peripheral nerve and interfascial blockade: rooted in evidence.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Tsui, B. C., Kirkham, K., Kwofie, M. K., Tran, D. Q., Wong, P., Chin, K. J., Sondekoppam, R. V.
2019
- **Complications of Regional Anesthesia: Principles of Safe Practice in Local and Regional Anesthesia**
edited by Finucane, B., Tsui, B. C.
Springer.2017
- **Pediatric Atlas of Ultrasound and Nerve Stimulation-Guided Regional Anesthesia**
edited by Tsui, B. C., Suresh, S.

Springer.2015

- **Principles of Airway Management**
Finucane, B., Tsui, B. C., Santora, A.
Springer.2011
- **Atlas of Ultrasound and Nerve Stimulation-Guided Regional Anesthesia**
Tsui, B. C.
Springer.2007
- **Vasopressor Effects on Cerebral Microcirculation: Comment.** *Anesthesiology*
Bombardieri, A. M., Tsui, B. C.
2022; 136 (5): 867-868
- **Prolonged Phrenic Nerve Blockade with Liposomal Bupivacaine.** *Anesthesiology*
Xu, L., Tsui, B. C., Horn, J.
2022; 136 (4): 525-527
- **Continuous Serratus Anterior Plane Block: A Team Approach** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
Kim, R. K., Brodt, J., MacArthur, J. W., Tsui, B. H.
2022; 36 (4): 1217-+
- **Bloc continu interscalenique versus bloc des muscles erecteurs du rachis thoracique haut avec epargne nerveuse phrenique pour l'arthroplastie totale de lepaule : une etude randomisee controlee.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Sun, L. Y., Basireddy, S., Gerber, L. N., Lamano, J., Costouros, J., Cheung, E., Boublik, J., Horn, J. L., Tsui, B. C.
2022
- **Toward precision regional anesthesia: is the PENG block appropriate for all hip fracture surgeries?** *REGIONAL ANESTHESIA AND PAIN MEDICINE*
Kim, R., Tsui, B. H.
2022; 47 (1): 76-+
- **Systemic lidocaine absorption from continuous erector spinae plane catheters after paediatric posterior spine fusion surgery.** *Regional anesthesia and pain medicine*
Pan, S., Lee, C. K., Caruso, T. J., Vorhies, J. S., Tsui, B. C.
2022
- **Cervical erector spinae versus retrolaminar plane block as an alternative to classical interscalene block** *REGIONAL ANESTHESIA AND PAIN MEDICINE*
Tsui, B. H., Elsharkawy, H.
2022; 47 (1)
- **Ultrasound Verification of Laparoscopic-Assisted Transversus Abdominis Plane Blocks in Children Undergoing Laparoscopic Procedures.** *Journal of laparoendoscopic & advanced surgical techniques. Part A*
Taylor, J. S., Ramamurthi, R. J., Austin, J., Gibson, M., Diyaolu, M., Munshey, F., McFadyen, G., Tsui, B., Chao, S. D.
1800
- **Single perineural catheter for hybrid technique of combined peripheral nerve stimulation and regional local anesthetic nerve block to manage phantom limb pain: time to jump on the neuromodulation bandwagon?** *Regional anesthesia and pain medicine*
Miser, J., Seering, M., Sondekoppam, R. V., Ip, V. H., Tsui, B. C.
2021
- **Continuous Serratus Anterior Plane Block: A Team Approach.** *Journal of cardiothoracic and vascular anesthesia*
Kim, R. K., Brodt, J., MacArthur, J. W., Tsui, B. C.
1800
- **Placement of thoracic epidural via a lumbar approach using a round J-tipped, partially styletted catheter in porcine model.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Lee, Y., Gamble, J. J., Ambros, B., Legg-St Pierre, C., Simko, E., Koziy, R., Tsui, B. C.
2021
- **Thoracic epidural anesthesia versus continuous erector spinae plane block for traumatic rib fracture analgesia: A retrospective cohort study.** *Journal of clinical anesthesia*

- Xu, L., Basireddy, S., Villanueva, C., Horn, A., Tsui, B. C.
2021; 75: 110519
- **Toward precision regional anesthesia: is the PENG block appropriate for all hip fracture surgeries?** *Regional anesthesia and pain medicine*
Kim, R., Tsui, B. C.
2021
 - **The Regional Cerebral Oxygen Saturation Effect of Inotropes/Vasopressors Administered to Treat Intraoperative Hypotension: A Bayesian Network Meta-analysis.** *Journal of neurosurgical anesthesiology*
Bombardieri, A. M., Singh, N. P., Yaeger, L., Athiraman, U., Tsui, B. C., Singh, P. M.
2021
 - **Cervical erector spinae versus retrolaminar plane block as an alternative to classical interscalene block.** *Regional anesthesia and pain medicine*
Tsui, B. C., Elsharkawy, H.
2021
 - **The Scientific Principles of Multimodal Monitoring Technique for Peripheral Nerve Blocks: Evidence Toward a New Beginning?** *Anesthesia and analgesia*
Ip, V. H., Sondekoppam, R. V., Tsui, B. C.
2021; 132 (5): e86–e88
 - **The effect on cerebral oxygen saturation of vasopressors administered to treat intraoperative hypotension: a Bayesian network meta-analysis**
Bombardieri, A., Singh, N. P., Tsui, B., Athiraman, U., Singh, P. M.
LIPPINCOTT WILLIAMS & WILKINS.2021: 553-554
 - **Enhanced Recovery after Pediatric Congenital Heart Repair with Erector Spinae Plane Blockade: An Ongoing Prospective, Randomized Controlled Trial**
Lee, C. K., Caruso, T., Lawrence, K., Fonseca, A., Boltz, G., Quinonez, Z., Maeda, K., Tsui, B.
LIPPINCOTT WILLIAMS & WILKINS.2021: 722-724
 - **The Scientific Principles of Multimodal Monitoring Technique for Peripheral Nerve Blocks: Evidence Toward a New Beginning?** *ANESTHESIA AND ANALGESIA*
Ip, V. Y., Sondekoppam, R. V., Tsui, B. H.
2021; 132 (5): E86–E88
 - **Cryoneurolysis and Peripheral Nerve Stimulation: Comment** *ANESTHESIOLOGY*
Tsui, B. H., Sondekoppam, R. V., Ip, V.
2021; 134 (5): 817+
 - **Suprazygomatic maxillary (SZM) nerve blocks for perioperative pain control in pediatric tonsillectomy and adenoidectomy.** *Journal of clinical anesthesia*
Smith, L., Balakrishnan, K., Pan, S., Tsui, B. C.
2021; 71: 110240
 - **Benefits, Risks, and Challenges of Incisional Analgesia in Pediatric Cardiac Anesthesia.** *Journal of cardiothoracic and vascular anesthesia*
Brodt, J. L., Tsui, B. C.
2021
 - **An Untested and Uncooperative Pediatric Patient Undergoing a Dental Procedure Using a Negative Airflow Tent During the Coronavirus Disease 2019 Pandemic: A Case Report.** *A&A practice*
Deng, T. A., Tsui, B. C.
2021; 15 (2): e01398
 - **Laparoscopic versus ultrasound-guided visualization of transversus abdominis plane blocks.** *Journal of pediatric surgery*
Diyaulu, M., Taylor, J., Austin, J., Gibson, M., Ramamurthi, R. J., Tsui, B., Chao, S.
2021
 - **Alternating Side Programmed Intermittent Repeated (ASPIRE) Bolus Regimen for Delivering Local Anesthetic via Bilateral Interfascial Plane Catheters.** *Journal of cardiothoracic and vascular anesthesia*
Tsui, B. C., Brodt, J., Pan, S., Caruso, T. J., Kim, R., Horn, J. L., Boublik, J., Tsui, J. H.
2021
 - **False negative electrical epidural stimulation test due to the excessive impedance of a saline bridge.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*

- Hill, J. D., Tsui, B. C.
2021
- **Augmenting conventional regional nerve block with peripheral neuromodulation using a perineural stimulating catheter.** *Canadian journal of anaesthesia = Journal canadien d'anesthésie*
Ip, V. H., Sondekoppam, R. V., Tsui, B. C.
2021
 - **Utilization of Magnesium in Opioid-Free Anesthesia for Peroral Endoscopic Myotomy: A Case Report.** *A&A practice*
Kim, R. K., Hwang, J. H., Tsui, B. C.
2021; 15 (1): e01372
 - **Approaching trauma analgesia using prolonged and novel continuous peripheral nerve blocks - A case report.** *Anesthesia and pain medicine*
Ly, E., Velamuri, S., Hickerson, W., Hill, D. M., Desai, J., Tsui, B., Herr, M., Jones, J.
2021
 - **Intraneural injection: volume and pressure.** *Regional anesthesia and pain medicine*
Seol, A., Tsui, B. C.
2021
 - **Feasibility of Combining Nerve Stimulation and Local Anesthetic Infusion to Treat Acute Postamputation Pain: A Case Report of a Hybrid Technique.** *A&A practice*
Sondekoppam, R. V., Ip, V., Tsui, B. C.
2021; 15 (6): e01487
 - **Comparison of Postoperative Pain From Catheter Over the Needle (CON) Versus Catheter Through Needle (CTN) Techniques for Erector Spinae Plane Blockade in Patients Undergoing Open Heart Surgery: A Single-Center Retrospective Review.** *Journal of cardiothoracic and vascular anesthesia*
Pfaff, K., Brodt, J., Basireddy, S., Boyd, J., Boublik, J., Horn, J., Tsui, B. C.
2020
 - **Transnasal Humidified Rapid-Insufflation Ventilatory Exchange in pediatric bronchoscopy: A prospective pilot study.** *Journal of clinical anesthesia*
Caruso, T. J., O'Connell, C., Qian, J., Menendez, M., Fonseca, A., Lawrence, K., Sidell, D. R., Darling, C., Tsui, B.
2020; 68: 110086
 - **Preoperative nerve blocks for hip fracture patients: A pilot randomized trial.** *Injury*
Beaupre, L. A., Menon, M. R., Almaazmi, K., Kang, S. H., Dieleman, S., Tsui, B.
2020
 - **Distanced-based dynamic behaviour of aerosol particles during aerosol-generating medical procedures.** *British journal of anaesthesia*
Tsui, B. C., Pan, S.
2020
 - **COVID-19 Pandemic: Greater Protection for Health Care Providers in the Hospital "Hot Zones"?** *ANESTHESIA AND ANALGESIA*
Ip, V., Ozelsel, T. P., Sondekoppam, R. V., Tsui, B. H.
2020; 131 (1): E37-E38
 - **COVID-19 Pandemic: Greater Protection for Health Care Providers in the Hospital "Hot Zones"?** *Anesthesia and analgesia*
Ip, V., Özelsel, T. J., Sondekoppam, R. V., Tsui, B. C.
2020; 131 (1): e37-e38
 - **Droplet evacuation strategy for simulated coughing during aerosol-generating procedures in COVID-19 patients.** *British journal of anaesthesia*
Tsui, B. C., Deng, A., Lin, C., Okonski, F., Pan, S.
2020
 - **COVID-19: Epidemiological factors during aerosol generating medical procedures.** *Anesthesia and analgesia*
Tsui, B. C., Deng, A., Pan, S.
2020
 - **COVID-19: novel pandemic, novel generation of medical students.** *British journal of anaesthesia*
Wang, J. J., Deng, A., Tsui, B. C.
2020

- **A Retrospective Cohort Study of Predictors and Interventions that Influence Cooperation with Mask Induction in Children.** *Paediatric anaesthesia*
Marquez, J. L., Wang, E., Rodriguez, S. T., O'Connell, C., Munshey, F., Darling, C., Tsui, B., Caruso, J., Caruso, T. J.
2020
- **An improved Tuohy needle tip design for Catheter Over Needle Catheterization: In Vitro Testing**
Tsui, B., Tsui, J., Tsui, J.
LIPPINCOTT WILLIAMS & WILKINS.2020: 857–58
- **Coronavirus disease 2019 (COVID-19) pandemic: International variation of personal protective equipment (PPE) and infection prevention and control (IPC) guidelines.** *Anesthesia and analgesia*
Ip, V. H., Sondekoppam, R. V., Ozelsel, T. J., Tsui, B. C.
2020
- **COVID-19: Common Critical and Practical Questions.** *Anesthesia and analgesia*
Lu, A. C., Sastry, S. G., Wong, B. J., Deng, A., Wald, S. H., Pearl, R. G., Tsui, B. C.
2020
- **Placement of Thoracic Epidural via a Lumbar Approach in Porcine Models using J-tipped, Styletted Epidural Catheter**
Lee, Y., Gamble, J., Ambros, B., Legg-St Pierre, C., Koziy, R. V., Tsui, B., Simko, E.
LIPPINCOTT WILLIAMS & WILKINS.2020: 859–61
- **Keeping trainees safe in a pandemic: the evolving role of medical simulation training.** *Canadian journal of anaesthesia = Journal canadien d'anesthésie*
Deng, A., Wang, J. J., Tsui, B. C.
2020
- **VID-19 pandemic: the 3R's (reduce, refine, and replace) of personal protective equipment (PPE) sustainability.** *Canadian journal of anaesthesia = Journal canadien d'anesthésie*
Ip, V., Ozelsel, T. J., Sondekoppam, R. V., Tsui, B. C.
2020
- **Reversing the Effects of a Peripheral Nerve Block with Normal Saline: A Randomised Controlled Trial** *TURKISH JOURNAL OF ANAESTHESIOLOGY AND REANIMATION*
Byrne, K. P., Smith, C. L., Termaat, J., Tsui, B. H.
2020; 48 (2): 115–19
- **Reversing the Effects of a Peripheral Nerve Block with Normal Saline: A Randomised Controlled Trial.** *Turkish journal of anaesthesiology and reanimation*
Byrne, K. P., Smith, C. L., Termaat, J., Tsui, B. C.
2020; 48 (2): 115-119
- **Point of care ultrasound: worthy endeavor for every perioperative anesthesiologist.** *Regional anesthesia and pain medicine*
Tsui, B. C.
2020
- **Speeding the Detection of Vessel Cannulation: An In-Vitro Stimulation Study** *ANESTHESIA AND ANALGESIA*
Muffly, M. K., Ku, A., Drover, D. R., Rodriguez, S., Caruso, T. J., Ku, A., Tsui, B. H.
2020; 130 (1): 159–64
- **Individualized simulations in a time of social distancing: Learning on donning and doffing of an COVID-19 airway response team.** *Journal of clinical anesthesia*
Rama, A. n., Murray, A. n., Fehr, J. n., Tsui, B. n.
2020; 67: 110019
- **Are aerosol-generating procedures safer in an airborne infection isolation room or operating room?** *British journal of anaesthesia*
Tsui, B. C., Pan, S. n.
2020
- **Novel cervical erector spinae plane block: interfascial layers remain important in the spread of anesthetics.** *Regional anesthesia and pain medicine*
Tsui, B. C., Elsharkawy, H. n.
2020

- **Diaphragm-sparing erector spinae plane block for shoulder surgery: emerging evidence.** *Regional anesthesia and pain medicine*
Tsui, B. C., Sun, L. Y., Ip, V. H., Malik, M. F., Ince, I. n., Elsharkawy, H. n.
2020
- **Resuscitation on collapsed healthcare worker while taking care of suspected or confirmed COVID patient: Questions and Answers.** *Anesthesia and analgesia*
Lu, A. C., Wong, B. J., Sastry, S. G., Wald, S. H., Pearl, R. G., Tsui, B. C.
2020
- **In reply: Regional anesthesia catheter tunnelling: a simpler approach.** *Canadian journal of anaesthesia = Journal canadien d'anesthésie*
Reece-Nguyen, T., Lin, C., Tsui, B. C.
2019
- **Erector spinae plane: a collapsible potential space.** *Regional anesthesia and pain medicine*
Xu, L., Leng, J. C., Mariano, E., Tsui, B. C.
2019
- **Electrical stimulation test for epidural catheter placement after receiving intrathecal local anesthetic during a combined spinal-epidural technique for Cesarean delivery: confirmation of the spinal nerve root as epidural site of action.** *Canadian journal of anaesthesia = Journal canadien d'anesthésie*
Stewart, M., Carvalho, B., Tsui, B. C.
2019
- **Transnasal Humidified Rapid Insufflation Ventilatory Exchange (THRIVE) augments oxygenation in children with cyanotic heart disease during microdirect laryngoscopy and bronchoscopy** *JOURNAL OF CLINICAL ANESTHESIA*
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