



Chi-Ho Ban Tsui

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

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.

Currently, Dr. Tsui is a Medical Center Line (MCL) 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".

ACADEMIC APPOINTMENTS

- Professor - Med Center 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)

HONORS AND AWARDS

- 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)

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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)

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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)

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PATENTS

- 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

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Research & Scholarship

CLINICAL TRIALS

- Interscalene Brachial Plexus Block Washout to Reverse Inadvertent Phrenic Nerve Blockade, Recruiting
- Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE) Use in Pediatric Procedures, Recruiting
- Regional Anesthesia for Cardiothoracic Enhanced Recovery, Not Recruiting

Publications

PUBLICATIONS

- **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

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