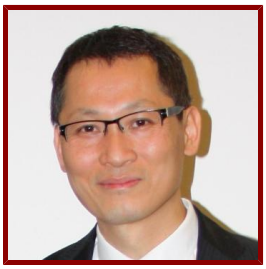
Stanford



Chi-Ho Ban Tsui

Adjunct Clinical Professor, Anesthesiology, Perioperative and Pain Medicine

Bio

BIO

Dr. Tsui completed his medical training at Dalhousie University in Halifax in 1995, following his Master of Science in Pharmacy in 1991. These degrees followed a Diploma in Engineering and a Bachelor of Science in both Mathematics and Pharmacy. 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.

Dr. Tsui is an avid and internationally recognized researcher. During his residency, Dr. Tsui developed an interest in improving the accuracy of epidural catheter placement and was issued a U.S. patent for his research. Dr. Tsui has expanded his research on ultrasound in regional anesthesia, with particular relevance to peripheral nerve block performance. Dr. Tsui is also responsible for developing 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 fundamental scientific and clinical aspects of electrophysiological signal monitoring and integrating this with the latest advances in ultrasound.

Academically, Dr. Tsui received the 2005 John Bradley Young Educator Award from the Canadian Anesthesiologists' Society. This award recognizes his work as a clinical educator, researcher, and anesthesia trainee role model. While in Canada, Dr. Tsui was the only Canadian invited to write a chapter for a prestigious American anesthesia textbook - Clinical Anesthesia (Barash). Dr. Tsui wrote the first textbook on Ultrasound and Nerve Stimulation-Guided Regional Anesthesia. Dr. Tsui also co-authored the first pediatric textbook on the subject, the Pediatric Atlas of Ultrasound- and Nerve Stimulation-Guided Regional Anesthesia. Dr. Tsui co-authored and edited "Principles of Airway Management" and "Complications in Regional Anesthesia." From 2006 to 2018, Dr. Tsui served on the editorial board of the Canadian Journal of Anesthesia. Dr. Tsui is currently the editor of the Regional Anesthesia and Pain Medicine.

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, the CAS Research Recognition Award, a prestigious award presented by the Canadian Anesthesiologists' Society, was awarded 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 Distinguished Service Award. This prestigious annual award honors individuals who have made remarkable contributions to the field of regional anesthesia and pain medicine

In 2025, in celebration of its 50th anniversary, ASRA honored Prof. Ban C.H. Tsui with the prestigious Gaston Labat Award. Presented annually since 1977 to recognize exceptional contributions to regional anesthesia, ASRA specifically chose Prof. Tsui as the 2025 recipient to mark this significant milestone.

Dr. Tsui was a full professor and is now an adjunct professor in the Department of Anesthesiology, Perioperative, and Pain Medicine at Stanford University. Recently, the Chinese University of Hong Kong, Shenzhen, recruited Dr. Tsui as an associate dean (Clinical Innovation & Translational Research), Chair, and Chief of the Department of Anesthesiology, Critical Care, and Pain Medicine. He was then shortly promoted to the position of Executive Associate Dean of the School of Medicine. Dr. Tsui is also an Honorary Full Professor at the Chinese University of Hong Kong.

INSTITUTE AFFILIATIONS

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