

Tan Yijia Bryan



Consultant, Department Orthopaedic Surgery, Woodlands Health Campus
Clinician-Scientist, LKCMedicine

Research Interests:

- Musculoskeletal Health
- Health Services Research
- Models of Care and Implementation Science
- Health Economics

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Biography

Dr Bryan Tan is currently a Consultant in Orthopaedic Surgery, National Healthcare Group. He has experience practicing both locally and overseas having done several fellowships internationally. He has served as the Singapore Orthopaedic Trainee Committee (SOTC) President and has represented the Singapore Orthopaedic Association (SOA) as its Junior Ambassador.

He is very active in the research scene and is currently pursuing a PhD post specialist training with a focus on health service research, implementation science and health economics in the area of knee osteoarthritis. He has several local and international publications and has presented at multiple international conference. He currently holds several grants with total quantum exceeding S\$2.1 million. He has been recognized for his research achievements through awards such as the Singapore Young Investigator Award (Silver) in 2014 and the Singapore Young Investigator Award, Health Services Research (Gold) in 2019 at the Singapore Health and Biomedical Congress (SHBC).

In addition to his training as an Orthopaedic surgeon and researcher, he has a strong interest in administration, policy making and public health and applies a public health, system lens to musculoskeletal problems. He currently sits on several hospital and national workgroups to deliver new models of care for musculoskeletal health.

He is passionate about combining his interests in research, public health and administration as a surgeon-scientist to develop the niche area in health services research and implementation science using a grounded, evidence based, data-driven approach to guide policy making and transform the care of musculoskeletal patients.

Selected Publications

- Teoh SH, Ang SB, **Tan BY**, Lim PH, Tan CY. Overview of Status of Men's Health in Singapore. *Journal of Men's Health*. Vol. 6, No. 4, pp. 307-316, December 2009
- **Tan BY**, Lee K. SLAP Lesion with Supraglenoid Labral Cyst causing Suprascapular Nerve Compression: A case report. *Malays Orthop J*. 2012 Jun;6(SupplA):46-8.
- **Tan BY**, Ng SY, Chong KW, Rikhranj IS. Tibiotalocalcaneal arthrodesis in a Singaporean hospital. *J Orthop Surg (Hong Kong)*. 2013 Apr;21(1):51-4.
- **Tan BY**, Lau AC, Kwek EB. Morphology and fixation pitfalls of a highly unstable intertrochanteric fracture variant. *J Orthop Surg (Hong Kong)*. 2015 Aug;23(2):142-5.
- **Tan BY**, Pereira MJ, Ng J, Kwek EBK. The ideal implant for Mayo 2A olecranon fractures? An economic evaluation. *J Shoulder Elbow Surg*. 2020 Nov;29(11):2347-2352.
- Ding BTK, Soh T, **Tan BY**, Oh JY, Mohd Fadhil MFB, Rasappan K, Lee KT. Operating in a Pandemic: Lessons and Strategies from an Orthopaedic Unit at the Epicenter of COVID-19 in Singapore. *J Bone Joint Surg Am*. 2020 Jul 1;102(13):e67..
- **Tan BY**, Ding BTK, Pereira MJ, Skou ST, Thumboo J, Car J. Collaborative model of care between Orthopaedics and allied healthcare professionals trial (CONNACT) - a feasibility study in patients with knee osteoarthritis using a mixed method approach. *BMC Musculoskelet Disord*. 2020 Sep 4;21(1):592.
- **Tan BY**, Pereira MJ, Yang SY, Hunter DJ, Skou ST, Thumboo J, Car J. Collaborative model of care between Orthopaedics and allied healthcare professionals in knee osteoarthritis (CONNACT): study protocol for an effectiveness-implementation hybrid randomized control trial. *BMC Musculoskelet Disord*. 2020 Oct 16;21(1):684.
- **Tan BY**, Thach T, Munro YL, Skou ST, Thumboo J, Car J, Car LT. Complex Lifestyle and Psychological Intervention in Knee Osteoarthritis: Scoping Review of Randomized Controlled Trials. *Int J Environ Res Public Health* 2021 Dec 3;18(23):12757
- Gao JF, Yeo JW, Ho AF, Goh AX, **Tan BY**, Chong SL, Sng BL, Chan ESY, Ong ME, Siddiqui FJ. Anaesthesia and analgesia in the emergency care setting for treating distal radius fractures in adults. *Cochrane Database of Systematic Reviews* 2022, Issue 5. Art. No.: CD015104. DOI: 10.1002/14651858.CD015104.
- SWL Ho, SKA Phua, **Tan BY**. Bringing orthogeriatric care for elderly patients with hip fractures to Asia. *Lancet Reg Health West Pac*. 2022 Mar 15;21:100418. doi: 10.1016/j.lanwpc.2022.100418.
- **Tan, BY**, Ng J, Ng WX, Yuan W, Kwek EBK. The Evolution of Olecranon Fractures and Its Fixation Strategies. *JOIO* 56, 1385–1393 (2022).

- Pereira MJ, Antonio DM, **Tan BY**, Yam MGY, Ramason R, Chua ITJ. Bundled payments for hip fracture surgery are associated with improved access, quality, and healthcare utilization, but higher costs for complex cases: An interrupted time series analysis. *Journal of Orthopaedic Trauma*: July 15, 2022 - Volume - Issue - 10.1097/BOT.0000000000002459
- Yang SY, Woon EYS, Griva K, **Tan BY**. A Qualitative Study of Psychosocial Factors in Patients With Knee Osteoarthritis: Insights Learned From an Asian Population. *Clinical Orthopaedics and Related Research* ():10.1097/CORR.0000000000002526, December 27, 2022
- Gao R, Isaksson F, Hasan A, **Tan BY**, Chatindiara I, Poon P. Good clinical and radiological outcomes of anatomic total shoulder arthroplasty with a novel convertible all polyethylene glenoid with hybrid fixation: minimum 2-year follow-up. *Seminars in Arthroplasty*: JSES.
- **Tan BY**, Goh ZZ, Lim CJ, Pereira MJ, Yang SY, Tan KG, Tan AC, Liang P, Haxby JA, Briggs AM, Hunter D, Skou ST, Thumboo J, Car J. Singapore Knee Osteoarthritis Cohort (SKETCH): protocol for a multi-centre prospective cohort study. *BMC Musculoskeletal Disord*. 2023 Feb 7;24(1):104

Notable Research Awards & Grants

Name of Awards & Grants	Year Obtained
National Medical Research Council (NMRC) Research Training Fellowship	2019
NHG-LKCMedicine Clinician-Scientist Fellowship (CSF) Award	2019
Singapore Young Investigator Award, Health Services Research (Gold)	2019
Rehabilitation Research Institute of Singapore (RRIS) RRG Award for "Gait Analysis in Knee Osteoarthritis"	2019
NHG Population Health Grant for "Collaborative model of care between Orthopaedics and Allied Care Professionals Trial (CONNECT PLUS)"	2020
MOH Traditional Chinese Medicine Research Grant for "Heat and Acupuncture Randomised Controlled Trial to Manage Osteoarthritis of the Knee (HarmoKNEE): An Effectiveness-Implementation Hybrid Study"	2021
INEX-OSCAR (Clinical/Population Health Research), College of Clinician-Scientist, Academy of Medicine	2022
Osteoarthritis Research International (OARSI) Word Congress Highest Rated Abstract	2023