



## Michael Yam Gui Jie

Consultant, Clinician Scientist, Orthopaedics, TTSH  
Clinical Director, TTSH Medical 3DP center  
NHG Orthopaedic surgery residency Innovation director  
CHI Faculty

### Research Interests:

- Osteosarcopenia
- 3D Printing in Surgery
- Utility of IT in Perioperative Care

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## Biography

Dr Michael Yam is NHG Orthopaedics first Clinician Scientist and endeavors to impact his patients with highly relevant clinical research. He received training through clinician scientist orthopedic residency, completing the clinician scientist preparatory program and successfully running 2 clinical trials. He is currently pursuing PhD studies with LKCMedicine. He served his residency as a Singapore Chief Resident, as well as received numerous awards for best teaching award 2017 (LKC) and best orthopedic senior resident 2018. He has clinical interest and specialty in trauma and adult recon, performing 3D printed assisted surgery, navigated surgical procedures and robotic joint replacement surgery.

He is also the founder and clinical director of the TTSH Medical 3DP center which impacts patient care, education and innovation in the cluster. Dr Michael Yam also drives innovation in the cluster as the innovation director for the NHG Orthopaedic residency as well as serving as CHI faculty.

Dr Michael has also received numerous grants totaling to above 1.5 million and is currently running a randomized controlled trial studying osteosarcopenia in distal radius fracture patients. He hopes to contribute to Singapore's aging population through early intervention and prevention of osteosarcopenia. Besides striving to be a clinical trialist, he is also spearheading the use of 3D printing in orthopedic surgery and has keen interest in using perioperative apps to improve patient care.

## Selected Publications

- Yam M, Chawla A, Kwek E. Rewriting the tip apex distance for the proximal femoral nail anti-rotation. *Injury*. 2017; 48(8): 1843-1847.

- Yam M, Kwek EBK. A Case of Bilateral Atypical Ulnar Fractures with Bisphosphonate Therapy in a Walking Aided Elderly. *Ann Acad Med Singapore*. 2017; 46(9):351-353.
- Ho SWL, Yam M, Chan ML, Kwek EBK. Return to car driving is safe 6 weeks after operative treatment of right ankle fractures. *Arch Orthop Trauma Surg*. 2018; 138(12):1691-1697.
- Yam M, Kang BJ, Chawla A, Zhang W, Way LG, Xavier RPA, Park DH, Yeo NEM, Howe TS, Kwek EBK. Cephalomedullary blade cut-ins: a poorly understood phenomenon. *Archives of Orthopaedic and Trauma Surgery*. 2020; 140(12):1939-1945. <https://doi.org/10.1007/s00402-020-03439-x>.

#### Notable Research Awards & Grants from Past 5 Years

Name of Awards & Grants	Year Obtained
NHG-LKCMedicine Clinician Scientist Fellowship (CSF) Award	2019
National Medical Research Council (NMRC) Research Training Fellowship (RTF)	2019
National Medical Research Council (NMRC) CS Seed Funding	2019
NHG-LKCMedicine Clinician Scientist Fellowship (CSF) Bridging grant (CG)	2019