
JACOB YOONG LEONG OH

PROFILE SUMMARY:

An Orthopaedic Surgeon who specialises in Spine Surgery. Originally from Singapore, I completed my medical training in New Zealand, Residency in Singapore, and complex spine fellowship in Canada. I enjoy working as part of a team and place great emphasis on patient-centred medicine. I am also strongly committed to academic work. My area of interest is in Minimally invasive Spine surgery, Adult Deformity and Spinal Navigation/Robotics.



QUALIFICATIONS:

MBCHB	2003	University of Otago, New Zealand.
MRCSEd	2007	Member, Royal College of Surgeons Edinburgh.
MMED	2011	Master of Medicine, Ortho Surgery, National University of Singapore.
FRCSEd	2012	Fellow, Royal College of Surgeons Edinburgh (Orthopaedic Surgery).
Fellowship	2013	Adult Spine Fellowship, Foothills Hospital, Calgary, Canada.
Fellowship	2018	Asia Pacific Spine Society Travelling Fellow (Thailand, Korea, Japan)
Fellowship	2020	Endoscopic Spine Fellowship (Centre for Endoscopic SS, India)

CURRENT APPOINTMENTS + MEMBERSHIPS:

- 1) **Senior Consultant** Department of Orthopaedics, Tan Tock Seng Hospital.
- 2) **Director of Spine Services:** Department of Orthopaedics, Tan Tock Seng Hospital.
- 3) **Deputy Head** Department of Orthopaedics, Tan Tock Seng Hospital
- 4) **Chair and Country Lead** AOSpine Asia Pacific (Singapore)
- 5) **Adjunct Asst. Professor:** YLL School of Medicine, National University of Singapore
- 6) **Faculty and Clinical Lecturer:** LKC School of Medicine, Nanyang Tech University.
- 7) **Assistant Program Director:** NHG-AHPL Residency Program, Orthopaedic Surgery
- 8) **Vice-President:** Back Society of Singapore (BSS)
- 9) **Journal Reviewer:** World Neurosurgery – Spine section
- 10) **Clinical Lecturer:** Nanyang Polytechnic Health Sciences
- 11) **Fellow:** Academy of Medicine Singapore (FAMS)
- 12) **Executive Committee** Singapore Spine Society 2018-2023 (SSS)
- 13) **Board Member** Society for Minimally Invasive Spine Surgery (SMISS AP)
- 14) **Board Member** Pacific and Asian Society for MIS Surgery (PASMISS)
- 15) **Board Member** ASEAN MISST (Minimally Invasive Spine Surgery)
- 16) **Member** North American Spine Society (NASS)
- 17) **Member** Asia Pacific Spine Society (APSS)
- 18) **Consultant** Medtronic, Stryker, Joimax

PUBLICATIONS:

- 1. Equipoise for Lateral Access Surgery**
World Neurosurgery 2022
H Wu, PWH Cheung, RCC Soh, [Oh JYL](#), JPY Cheung
- 2. Comparison of Unremoved Intervertebral disc location between two lateral lumbar interbody fusion (LLIF) techniques**
World Neurosurgery 2022
Weerasak Singhatanadgige, [Oh JYL](#), Wicharn Yingsakmongkol, Worawat Limthongkul
- 3. Selective Nerve Root Block for the treatment of Lumbar Radiculopathy**
Surgeries 2022
Jacqueline Chu Ruo Yang, Shi Ting Chiu, [Oh JYL](#), Arun Kumar
- 4. Return to driving is safe 6 weeks after anterior cervical surgery**
Clinical Spine Surgery 2022
Benjamin Ding, Yu CS, [Oh JYL](#)
- 5. Risk factors for Adjacent Segment Problems after Post Instrumentation of the C-Spine.**
Surgeries 2022
Wayne Yap, Colum Nolan, Arun Kumar, [Oh JYL](#)
- 6. Impact of Covid-19 on Orthopaedic specialist training: A nationwide survey of Orthopaedic Residents in Singapore**
Singapore Medical Journal 2022
Dennis Hey, Reuben Soh, [Oh JYL](#)
- 7. Correction of degenerative lumbar coronal deformity using asymmetrical interbody cages: Surgical technique and case report**
Journal of Craniovertebral Junction and Spine 2021
Gloria Cheng, Wayne Yap, Arun Kumar, [Oh JYL](#)
- 8. Migration + Spontaneous Extrusion of a lumbar spinal fusion rod from the gluteal region**
Cureus 2022
Tamara Soh, Cheryl Tan, Kelvin Lor, [Oh JYL](#)
- 9. Early postoperative loss of disc height following transforaminal and lateral lumbar interbody fusion: A radiographic analysis**
Asian Spine Journal 2022
Arun Kumar, Tamara Soh, Mark Tan, Oh JYL
- 10. Postoperative Urinary Retention following thoracolumbar spinal fusion: Prevalance, risk factors and outcomes**
Cureus 2021
Cheryl Tan, Glen Ho, Arun Kumar, Oh JYL
- 11. An Atypical Presentation of Metastatic Ewing Sarcoma to the Spine.**
Indian Spine Journal 2021
Wei Jie Tan, Hwei Yee Lee, Wayne Yap, Colum Nolan, JYL Oh,
- 12. Intracerebral Haemorrhage Following Spine Surgery: A Word Of Caution On The Use Of Suction Drains**
British Journal of Neurosurgery 2021
Zhang Wei, Reuben Soh, Dinesh Kumar, Colum Nolan, [JYL Oh](#)

- 13. Osteoporosis of the Spine: Asian Perspectives (Book Chapter)**
Parathyroid Hormone Therapy in management of Osteoporosis: World Scientific 2021
Arun Kumar, [Jacob Oh](#) [Yoong Leong](#)
- 14. The feasibility of anterior spinal access – the vascular corridor at the L5-S1 level for anterior lumbar interbody fusion**
Spine 2021
Julia Ng, Matthew Scott-Young, Daniel Chan, [Oh JYL](#)
- 15. Prospective evaluation of the time required for insertion of 380 lumbar and sacral pedicle screws using navigation with an intraoperative 3D imaging system**
International Journal of Spine Surgery (June 2020)
Benjamin Ding, Arun Kumar, [Oh JYL](#), Yu CS.
- 16. Reliability of the new modified Moro's classification and oblique corridor grading to assess feasibility of the OLIF.**
International Journal of Orthopaedics 2020
Arun Kumar, Julia Ng, Tamara Soh, Wayne Yap, Mark Tan, Yu CS, [JYL OH](#)
- 17. Fighting from the COVID-19 Frontline: A Junior Doctor's Perspective on Fear, Duty and Calling**
Malaysian Orthopaedic Journal 2020
K Rassapan, [JYL Oh](#)
- 18. Orthopaedic Surgery after Covid 19 – A blueprint for resuming elective surgery after a pandemic**
International Journal of Surgery July 2020
Benjamin Ding, [JYL Oh](#), Kelvin Tan, Lee KT
- 19. A Surgeons role in fighting a medical Pandemic: Experiences from the unit at the epicenter of COVID-19 in Singapore – A Cohort Perspective.**
International Journal of Surgery May 2020
K Rassapan, [JYL Oh](#), BTK Ding, KT Lee
- 20. Addressing Coronavirus Disease 2019 in Spine Surgery: A Rapid National Consensus using the Delphi Method via Teleconference**
Asian Spine Journal May 2020
KA Tan, VN Thadani, D Chan, [JYL Oh](#), GKP Liu
- 21. Operating in a Pandemic: Lessons and strategies from an Orthopedic Unit at the Epicenter of Covid-19 in Singapore**
Journal Bone and Joint Surgery May 2020
BTK Ding, T Soh, BY Tan, [JYL Oh](#), K Rassapan, KT Lee
- 22. Spine Surgery and COVID-19: Challenges and Strategies from the frontlines**
Journal Bone and Joint Surgery April 2020
Tamara Soh, Sean Ho, Wayne Yap, [Oh JYL](#)
- 23. Spine Surgery and COVID-19: Early Experiences from the Singapore**
Spine 2020
Tamara Soh, Sean Ho, Wayne Yap, [Oh JYL](#)
- 24. Accuracy of Thoracolumbar Pedicle Screw Insertion based on routine intraoperative imaging and Navigation**
Asian Spine Journal Sept 2020
Pirated Sundaram, [JYL Oh](#), C Nolum, M Tan, Yu CS, Ling JM

- 25. Intraoperative neuromonitoring in the Cervical Spine Surgery – When is a signal drop clinically Significant?**
Asian Spine Journal (Accepted awaiting publication)
Joshua De Cruz, Kevin Wong Ho Yin, Arun Kumar, Eugene Yang, Dinesh Kumar, [JYL Oh](#)
- 26. Morphological Parameters of the Thoracic Pedicle in an Asian population – A Magnetic Resonance-Based Study of 3324 Pedicles**
Global Spine Journal 2020
Tamara Soh, Ankit Tandon, Arun Kumar, [Oh JYL](#)
- 27. Unusual Atlantoaxial Stenosis adjacent to long segment cervical spinal fusion**
Annals Academy of Medicine 2020
Marcus Lee, Arun Kumar, Oh [JYL](#)
- 28. Spinal Navigation for Cervical Pedicle Screws: Surgical Pearls and Pitfalls.**
Global Spine Journal (Publication ahead of print)
Gerrard Gan, Arun Kumar, Colum Nolan, Yu CS, [Oh JYL](#)
- 29. Spontaneous total resolution of severe disc herniation.**
Chonnam Medical Journal (Publication ahead of print)
Arun Kumar, [Oh JYL](#)
- 30. Factors influencing early disc height loss following lateral lumbar interbody fusion**
Asian Spine Journal March 2020
Arun Kumar, [Oh JYL](#)
- 31. Incidence of pedicle screw breach following open and minimally invasive spinal instrumentation: A postoperative CT analysis of 513 pedicle screws applied under fluoroscopic guidance**
Biomedicine 2020
Chong XL, Arun Kumar, [Oh JYL](#)
- 32. Technological Advancements that can be adopted for safe vertebral column resection.**
Indian Spine Journal July 2020
Arun Kumar, [Oh JYL](#)
- 33. Psoriasis complicating wound healing after minimally invasive lumbar spinal fusion.**
Indian Spine Journal July 2020
Yeo QY, Arun Kumar, [Oh JYL](#)
- 34. The Oblique Corridor at L4/5: A radiographic anatomical study into the feasibility for lateral interbody fusion.**
Spine 2020
Julia Ng, Arun Kumar, Ankit Tandon, [Oh JYL](#)
- 35. Does Lumbar interbody cage size influence Subsidence? A biomechanical study**
Spine 2020
Yuan Wei, Arun Kumar, Oh JYL
- 36. Post-Surgical thoracic cord herniation following an unrepaired Dural defect: A rare complication.**
British Journal of Neurosurgery 2019
Arun Kumar, Mark Tan, Colum Nolan, Oh JYL
- 37. Transverse myelitis masquerading as cauda equina syndrome, stroke and cervical myelopathy.**
Biomedicine 2020
Sally Chan, Arun Kumar, Oh JYL

- 38. Orthostatic Hypotension following cervical spine surgery: Prevalence + Risk Factors**
Global Spine Journal 2019
Edward Ong, Lincoln Yeo, Arun Kumar, Oh JYL
- 39. Orthopaedic Resident Burnout: A literature review on vulnerability, risk factors, consequences and management strategies**
Malaysian Orthopaedic Journal 2019
Wong KP, Arun Kumar, [Oh JYL](#)
- 40. Tremors as an Atypical Presentation of Cervical Myelopathy**
Journal of Medical Science 2019
Melinda Goh, Arun Kumar, [Oh JYL](#)
- 41. What is the optimal screw length of lumbar pedicle screws during MIS Fixation? A CT guided analysis of 771 Screws**
Asian Spine Journal, July 2019
Chua MJ, S Siddiqui, Yu CS, Colum Nolan, [Oh JYL](#)
- 42. Is Spinal Surgery safe for elderly patients aged 80 years and above? Predictors of mortality and morbidity in an Asian Population.**
Neurospine Dec 2019 (Editors Choice)
Joshua Tan, Arun Kumar, [Oh JYL](#)
- 43. Direct Fixation of C1 Jefferson Fracture using C1 lateral mass screws**
International Journal of Spine Surgery 2019
Aravind Kumar, Lim Hai Fon, [Oh JYL](#)
- 44. Spinal Navigation and the impact on residency training: A double edged sword?**
Clinics of Orthopaedic Surgery, May 2019
Arun Kumar, Tamara Soh, Mark Tan, Colum Nolan, Yu CS, Oh [JYL](#)
- 45. Factors affecting Mortality rates in Geriatric patients with acute spine fractures: A 12 year study of 613 patients in Singapore.**
Asian Spine Journal, March 2019
EL Soon, JC Ling, A Leong, [Oh JYL](#)
- 46. Hassle free Rod placement using Spinal navigation for long construct MIS cases**
Asian Spine Journal, Jan 2019
Arun Kumar, Worawat Limsungkol, [Oh JYL](#)
- 47. Early post-surgical recurrence of metastatic vertebral neuro-endocrine tumour treated effectively with chemo-radiotherapy**
Biomedicine, March 2019
Arun Kumar, Tee SW, Mark Tan, [Oh JYL](#)
- 48. Ossification of the yellow ligament in the cervical spine – An unusual location**
Biomedicine 2019
[Oh JYL](#), Victor Wang, Timothy Teo, Arun Kumar, Hee HT
- 49. Pedicle screw revision pull-out strength – does the screw thread design matter?**
Spine Feb 2019
WRD Seng, S Siddiqui, [Oh JYL](#)
- 50. A rare case of extensive cervico-thoracic ossification of the posterior longitudinal ligament causing myelopathy**
Biomedicine Dec 2018
Arun Kumar, Mark Tan, [Oh JYL](#)

- 51. Megacolon as an atypical presentation of Cervical Myelopathy**
Journal of Spine Surgery, 2017
Oh JYL, Kwek K, Tee SW, Mark Tan
- 52. Outcomes of Non-operative management of Cervical Spine Injuries**
Book chapter, for Cervical Spine Injuries: Epidemiology, Long term outcomes and complications. Nova Publisher 2015.
Oh JYL, Hee HT, JS Butler
- 53. Infection rates in Singaporeans with and without complicated diabetes after ankle fracture surgery**
Journal of Orthopaedic Surgery, April 2015.
 Tan TL, Oh JYL, Kwek E
- 54. An Atypical Presentation of Spinal Stenosis**
Asian Spine Journal, Feb 2015
Oh JYL, Tan JH, Teo TWW, Hee HT
- 55. Spinal Cord Ischaemia following hypovolaemic Shock**
Asian Spine Journal, Dec 2014
Oh JYL, Tan JH, Teo TWW, Hee HT
- 56. Paradoxical Motion in L5-S1 Adult Spondylolytic Spondylolisthesis**
European Spine Journal, 2012
Oh JYL, Liang S, Louange D, Rahmat R, Hee HT, Kumar VP
- 57. “Snapping” Knee secondary to a tibial osteochondroma**
The Knee Journal, 2008
Oh JYL, Tan K, Wong YS
- 58. Spontaneous spinal epidural haematoma associated with aspirin intake**
Singapore Medical Journal, 2008
Oh JYL, Lingaraj K, Rahmat R

INVITED FACULTY and TALKS:

SpineWeek (SMISS AP, Medtronic Robotic Seminar)	Melbourne	May 2023
AO Asia Pacific (Regional Faculty, Adv MIS Course)	Melbourne	April 2023
AO Asia Pacific (Course Chair, Adv Deformity Course)	Singapore	Mar 2023
Singapore Spine Society Annual Meeting (Robot/Endoscopy)	Singapore	Mar 2023
Medtronic OLIF Seminar (Chinese Webinar)	China	Mar 2023
MISSABCON (Avoiding Complications in OLIF)	Pune, India	Nov 2022
SMISS AP (Single Position Surgery)	Osaka, Japan	Oct 2022
Deformity Down Under (Endoscopy, MIS Lateral)	Sydney, Australia	Aug 2022

AO East Asia Conference (Achieving Lordosis in Deformity)	Singapore	Aug 2022
AO In-League Webinar (Advanced lateral Applications)	Singapore	Aug 2022
AO Advance MIS and Open Solutions for Adult Deformity	Singapore	July 2022
PASMISS 2022 – Early Experience with the Mazor Robot	Singapore	July 2022
3 rd Chulalongkorn MIS TLIF and OLIF Course	Bangkok, Thailand	Mar 2022
Medtronic Deformity Symposium (Future of Spine Surgery)	Singapore	Mar 2022
Singapore Trauma course (Spinal cord injury and steroids)	Singapore	Dec 2021
Cochin International Orthopaedic Summit (OLIF Complications)	Cochin, India	Oct 2021
AOSpine Advance MIS Course (Chair)	Singapore	Nov 2021
Asia Pacific Spine Society (Fixation in Osteoporotic Fractures)	KL, Malaysia	Oct 2021
ESPINE Endoscopic Symposium (Endoscopic Fusion)	Vienna, Austria	Sept 2021
World Spine (Consideration with Operating with Covid)	Korea	Oct 2021
Asia Pacific Orthopaedic Association (MIS Corpectomy)	Malaysia	July 2021
Singapore Trauma and Critical Care Conference	Singapore	April 2021
Pain Association of Singapore Annual Meeting	Singapore	Mar 2021
Singapore Spine Society 4 th Annual Meeting (Co-Chair)	Singapore	Jan 2021
Singapore Spine Society Endoscopic Workshop (Chair)	Singapore	Jan 2020
AO Advance Symposium – Endoscopic Spine Surgery (Chair)	Singapore	Jan 2020
Singapore Spine Society 3 rd Annual Meeting (Co-Chair)	Singapore	Jan 2020
Singapore Orthopaedic Association/Spine Society	Singapore	Nov 2019
Deformity Down Under (Spine Deformity Symposium)	Sydney, Australia	Aug 2019
OLIF Without the flip (Medtronic)	Singapore	May 2019
Spine Synergy (Robotics, Navigation, Innovations in Spine)	Korea	May 2019
Spine Public Forum (Singapore Spine Society)	Singapore	Mar 2019
Advance MIS Solutions for Spine Surgery (Course <u>Chair</u>)	Singapore	Mar 2019
Singapore Spine Society 2 nd Annual Meeting	Singapore	Jan 2019
Advanced Surgical Solutions for Osteoporotic Spine Fractures	Singapore	Jan 2019
Advanced Cervical Spine Course 2019	Singapore	Nov 2018
Singapore Orthopaedic Association Annual Meeting	Singapore	Nov 2018

AO Trauma Basic Course (Faculty)	Singapore	Aug 2018
Fundamentals in Spine Surgery (Medtronic)	Bangkok	Mar 2018
Singapore Spine Society 1 st Annual Meeting	Singapore	Jan 2018
Medtronic South East Asia (SEA) Trauma Course	Bangkok	Dec 2017
The Economist – Demystifying Ageing (Osteoporosis)	Fullerton (Singapore)	Nov 2017
Masterclasses in Spinal Complications - Faculty	Academia (SGH)	Oct 2017
AO Trauma Basic Course (Faculty)	NTFGH	Aug 2017
Chinese Evening Newspaper (Lian He Wan Bao)	Media	May 2017
Combined Radiology Musculoskeletal Course (Chair)	TTSH	Feb 2017
FRCS Prep Course	NUH	Feb 2017
Public Forum (Pain Management: Spine)	TTSH	Nov 2016
Public Forum (Back Society: The Ageing Spine)	TTSH	Sept 2016
SOA Annual Scientific Meeting (Faculty: Spine Papers)	Singapore	Oct 2016
Convenor, EOPT for year 3 Medical students (YLL)	TTSH	Oct 2016
Public Forum (World Physiotherapy Day)	TTSH	Aug 2016
AO Spine Basic Course (Faculty)	Academia (SGH)	Aug 2016
AO Trauma Basic Course (Faculty)	Academia (SGH)	Aug 2016
9 th NUH Spinal Deformity Course (Faculty)	NUH	June 2016
Singapore Trauma 2016 : Spine Section	TTSH	April 2016
Spine Update: 2016 (Pesi Cacha Lectureship)	NUH	Jan 2016
Minimally invasive techniques. Alphatec Spine	Academia (SGH)	July 2015
Singapore Trauma 2015: Spine Section	TTSH	April 2015
Spine Update: 2015 Pesi Cacha Lectureship	NUH	Jan 2015
MIS course for Spine Surgery (Co-Chair)	NUH	June 2014
FRCS Basic Science Course (Faculty)	TTSH	Mar 2014
Combined Radiology Musculoskeletal Course (Faculty)	TTSH	Mar 2014

AWARDS:

1) The Public Administration Medal (Bronze)	National Award, Prime Ministers Office
2) Top 20 Best Teacher Award	Tan Tock Seng 2022
3) NUS Deans Teaching Award	YLL School of Medicine, NUS 2021
4) Top Ten Best Teacher Award	Tan Tock Seng 2021
5) TTSH Quality Award – Exceptional Compliments	Tan Tock Seng 2019
6) TTSH Clinical Training Merit Award (NUS)	Tan Tock Seng 2019
7) TTSH Best Teacher Award (Senior Doctors)	Tan Tock Seng 2018
8) NHG Teaching award (Senior Doctors)	National Healthcare Group 2018
9) Orthopaedic Teaching Excellence Award	National University Hospital 2018
10) Top Ten Best Teacher Award	Tan Tock Seng Hospital 2017
11) NUS Medicine Special Recognition Award	National University of Singapore 2017
12) Quality Improvement Project (Merit)	Tan Tock Seng Hospital 2017
13) Postgraduate Teaching Excellence Award	Khoo Teck Puat Hospital 2015
14) Undergraduate Teaching Excellence Award	Khoo Teck Puat Hospital 2015
15) Deans Teaching Award	YLL School of Medicine, NUS 2015
16) Service Champion (Patients Satisfaction)	Khoo Teck Puat Hospital 2012-2015
17) Scholarship – Fellowship Training Award	Ministry of Health, Singapore 2011
