Aung Myint Oo @ Ye Jian Guo

Assistant Chief Clinical Informatics Officer, TTSH
Senior Consultant, Department of General Surgery, TTSH
Clinical Lead, Digital Innovation Office, CHI, NHG Health
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Research and Innovation Interests:

- Minimally Invasive Surgery including Robot Assisted Surgeries – Upper GI (Benign, Malignant), Metabolic Bariatric Surgery, Hernia Surgery
- Digital solutions, including Artificial Intelligence
- Clinical Informatics
- MedTech and EduTech Solutions

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Biography

Asst Prof. Aung Myint Oo @ Ye Jian Guo is a Senior Consultant Surgeon in the Department of General Surgery and an Assistant Chief Clinical Informatics Officer in Tan Tock Seng Hospital, Singapore. He is also a Clinical Lead in the Digital Innovation Office, Centre for Healthcare Innovation (CHI), National Healthcare Group Health. He is an Assistant Professor and an assistant clinical module lead (gastrointestinal system) with Lee Kong Chian School of Medicine, Nanyang Technological University of Singapore. He is also a clinical senior lecturer with the Yong Loo Lin School of Medicine, National University of Singapore. Dr. Aung completed his basic and advanced surgical training in Singapore. He was awarded Health Manpower Development Plan (HMDP) scholarship to undergo his fellowship training in advance minimally invasive upper gastrointestinal surgery at Seoul National University Bundang Hospital, Korea. He is the President of the Obesity and Metabolic Surgery Society of Singapore (OMSSS), Immediate-Past Chairman of Chapter of General Surgeons, College of Surgeons, Academy of Medicine Singapore, the Preside-elect of SingSPEN (Society of Parenteral and Enteral Nutrition, Singapore) and Scientific Chair of the World Congress of Endoscopic Surgery (WCES 2025) in conjunction with the 17th Asia Pacific Scientific Congress of ELSA (Endoscopic and Laparoscopic Surgeons of Asia). He was the Vice President of the 10th Asia Pacific Gastroesophageal Cancer Congress 2024 (APGCC). He is also a member of the Singapore Cancer Society Gastric Cancer Awareness Month Committee. He is an active member of international societies for Endo laparoscopic surgeons and bariatric surgeons. He is actively involved in the Digital Transformation Project of ELSA and is also the Co-Chair of ELSA Communication & Informatics Committee. He is an active member of the EAES (European Association for Endoscopic Surgery) Education and Training Committee, the Communication Committee of International Federation for the Surgery of Obesity and Metabolic Disorders (IFSO) and, the Surgical

Specialty Board in General Surgery with the Royal College of Surgeons of Edinburgh (RCSEd, UK). He is also the Vice-President (Medical) of Medico-Legal Society of Singapore (MLSS). Dr. Aung is active in both clinical research and teaching. He was awarded the Ministry of Health Healthcare Research Scholarship in 2013 to pursue Master of Clinical Investigation (MCI) at National University of Singapore and he was conferred MCI in 2016. He is also a Co-Investigator of international gastric cancer research trials. Not only has he published his research works in peer reviewed medical journals, but also, he is a reviewer and editorial member of peer-reviewed medical journals. He is currently an instructor of Advanced Cardiac Life Support (ACLS) and Advanced Trauma Life Support (ATLS) courses, as well as a core faculty/ faculty of the Surgical Residency programmes in Singapore. He is also an e-tutor of MSc in Surgical Science, Edinburgh Surgical Science Qualifications and ChM in General Surgery, University of Edinburgh, UK. He has been appointed as a visiting lecturer to the Department of Thoracic Surgery, University of Medicine 1, Yangon in Myanmar. He is also an active faculty member of SMACMEP (Singapore Medical Association Centre for Medical Ethics and Professionalism).

Selected Publications

- Chua BQY, Chong VWS, Teng TZJ, Chia CTW, Aung MO, Shelat VG. Does technology- enhanced communication improve Helicobacter pylori eradication outcomes?-A meta- analysis. Helicobacter. 2022 Jun;27(3):e12890. doi: 10.1111/hel.12890. Epub 2022 Apr 1. PMID: 35363943.

- Masuda Y, Fong KL, Yeo D, Yeo C, Chue KM, Araba SB, Lim CW, Yeung B, Lee J, Lin J, Chia C, Ng M, Ng K, Samol J, Chia D, Teh JL, Sundar R, Yong WP, Tan HL, Muro K, Lordick F, Wainburg Z, Tan BC, Kim G, Suda K, Law S, Sano T, Gurunathan R, Chiu P, Woo E, Duong C, Yang HK, Long VD, Kim HH, Mahendren HA, Lee HJ, Samarasam I, Gotoda T, Liew R, Shabbir A, Aung MO, Terashima M, Cheong E, So J, Tan J. Asia Pacific Gastroesophageal Cancer Congress (APGCC) 2024 consensus statement on stage 2 and 3 locally advanced gastric and Siewert 3 junctional adenocarcinoma. J Gastroenterol. 2025 Jun 13. doi: 10.1007/s00535-025-02266-4. Epub ahead of print. PMID: 40514519.

- Chan KS, Teo ZHT, Oo AM, Junnarkar SP, Shelat VG. Learning Curve of Laparoscopic Common Bile Duct Exploration: A Systematic Review. J Laparoendosc Adv Surg Tech A. 2023 Mar;33(3):241-252. doi: 10.1089/lap.2022.0382. Epub 2022 Sep 27. PMID: 36161969.

- Chan KS, Oo AM. Exploring the learning curve in minimally invasive esophagectomy: a systematic review. Dis Esophagus. 2023 Sep 1;36(9):doad008. doi: 10.1093/dote/doad008. PMID: 36857586.

- Chan KS, Oo AM. Establishing the Learning Curve of Laparoscopic and Robotic Distal Gastrectomy: a Systematic Review and Meta-Regression Analysis. J Gastrointest Surg. 2023 Dec;27(12):2946-2982. doi: 10.1007/s11605-023-05812-8. Epub 2023 Sep 1. PMID: 37658172.

- Loo JH, Ng ADR, Chan KS, Oo AM. Outcomes of Intraoperative Pyloric Drainage on Delayed Gastric Emptying Following Esophagectomy: A Systematic Review and Meta-analysis. J Gastrointest Surg. 2023 Apr;27(4):823-835. doi: 10.1007/s11605-022-05573-w. Epub 2023 Jan 17. PMID: 36650418.

- Chan KS, Ng STC, Tan CHB, Gerard G, Oo AM. A systematic review and meta- analysis comparing postoperative outcomes of laparoscopic versus open omental patch repair of perforated peptic ulcer. J Trauma Acute Care Surg. 2023 Jan 1;94(1):e1-e13. doi: 10.1097/TA.0000000000003799. Epub 2022 Oct 17. PMID: 36252181.

- Phoa S, Chan KS, Lim SH, Oo AM, Shelat VG. Comparison of glue versus suture mesh fixation for primary open inguinal hernia mesh repair by Lichtenstein technique: a systematic review and meta-analysis. Hernia. 2022 Aug;26(4):1105-1120. doi: 10.1007/s10029-022-02571-4. Epub 2022 Feb 3. PMID: 35113292.

- Chan KS, Oo AM. Learning curve of laparoscopic and robotic total gastrectomy: A systematic review and meta-analysis. Surg Today. 2024 Jun;54(6):509-522. doi: 10.1007/s00595-023-02672-2. Epub 2023 Mar 13. PMID: 36912987.

- Chang SY, Chan KS, Oo AM. Can Computerized Simulation be Used to Assess Surgical Proficiency in Laparoscopic Colorectal Surgeries? A Systematic Review. Surg Innov. 2024 Apr;31(2):195-211. doi: 10.1177/15533506241232791. Epub 2024 Feb 19. PMID: 38373603.

- Teng TZJ, Oo AM, Tay KV. Paraconduit hiatal hernia following minimally invasive oesophagectomy in an emergent setting. Indian J Thorac Cardiovasc Surg. 2022 Jul;38(4):445-447. doi: 10.1007/s12055-022-01359-6. Epub 2022 May 13. PMID: 35756568; PMCID: PMC9218017.

- Loh C, Tan L, Wijerathne S, Lee J, Wai L, Parameswaran R, Goh S, Oo AM, Lomanto D. Open versus laparoscopic intraperitoneal on-lay mesh repair: A comparison of outcomes in small ventral hernia. Asian J Surg. 2023 Feb;46(2):712-717. doi: 10.1016/j.asjsur.2022.06.153. Epub 2022 Jul 14. PMID: 35842388.

- Goh SSN, Sanghvi KA, Koura AN, Rao JK, Oo AM. Elective incisional hernia repair: lower risk of postoperative wound infection with laparoscopic versus open repair. Singapore Med J. 2023 Feb;64(2):105-108. doi: 10.11622/smedj.2022005. Epub 2022 Jan 27. PMID: 35082406; PMCID: PMC10071850.

- Chan KS, Ho S, Pang K, Koura AN, Oo AM, Ahmed S, Yeo DXW, Yeo C. Comparison of Weight Loss and Improvement in Metabolic Comorbidities Between Endoscopic Gastroplasty and Lifestyle Modifications: A Meta-analysis. Surg Laparosc Endosc Percutan Tech. 2025 Jun 1;35(3):e1361. doi: 10.1097/SLE.0000000000001361. PMID: 40065659.

- Chan KS, Xiao L, Oo AM. Outcomes of Conversion Surgery vs Conventional Systemic Therapy in Stage IV Gastric Cancer: A Systematic Review and Meta- Analysis. J Gastrointest Cancer. 2025 Jul 22;56(1):161. doi: 10.1007/s12029-025-01265-1. PMID: 40696068.

- Yeo C, Ahmed S, Oo AM, Koura A, Sanghvi K, Yeo D. COVID-19 and Obesity-the Management of Pre- and Post-bariatric Patients Amidst the COVID-19 Pandemic. Obes Surg. 2020 Sep;30(9):3607-3609. doi: 10.1007/s11695-020-04670-6. PMID: 32385668; PMCID: PMC7210102.

- Oo AM, Vallabhajosyula R. Perceived effectiveness of an innovative mobile- based serious game on the improvement of soft skills in minimally invasive surgical training. Asian J Endosc Surg. 2023 Jan;16(1):41-49. doi: 10.1111/ases.13115. Epub 2022 Aug 5. PMID: 36594159.

- Yeo C, Ho G, Syn N, Mak M, Ahmed S, Oo AM, Koura A, Kaushal S, Yeo D. Revisional One-Anastomosis Gastric Bypass After Restrictive Index Surgery-a Metaanalysis and Comparison with Revisional Roux-en-Y Gastric Bypass. Obes Surg. 2021 Mar;31(3):949-964. doi: 10.1007/s11695-020-05094-y. Epub 2020 Nov 6. PMID: 33159293.

Notable Research and Innovation Awards & Grants from Past 5 Years

Name of Awards & Grants	Year Obtained
ALIVE Serious Games Grant	-
NHG Centre for Medical Technologies & Innovations (CMTi) and National Health Innovation Centre	-
ARES Enterprise A* VC Funding	-
Precision Health Research Singapore (PRECISE) clinical Implementation Pilot (CIP) Research Funds	-
The HPHSR Clinician Scientist Award (SI Category)	-
NHG Open Innovation Challenge	-
NTFHIP (DPB Grant)	-