

## **Kim Guowei**

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Singaporean

### **Designations:**

Consultant, Division of General Surgery (Upper Gastrointestinal Surgery), Department of Surgery, National University Hospital

Consultant, Division of Surgical Oncology, National University Cancer Institute, Singapore

Assistant Professor, Department of Surgery, Yong Loo Lin School of Medicine, National University Hospital

Associate Program Director, NUHS General Surgery Residency Program

### **Qualifications:**

MBBS, MRCSed, MMed(Surg), FRCSEd, MCI, FAMS

### **Special Interests:**

Upper gastrointestinal surgery (including esophageal and gastric cancer) , metabolic and bariatric surgery , minimally invasive (single incision) surgery, robotic surgery, diagnostic and therapeutic endoscopy

### **Biography:**

Asst Prof Kim Guowei graduated from National University of Singapore (NUS) in 2007. He completed surgical residency at the National University Hospital in 2016, serving as Chief Resident. He spent a year at Seoul National University Bundang Hospital, Korea, in 2019, for his clinical and research fellowship, mastering laparoscopic and robotic surgery for gastric cancer. With a keen interest in undergraduate and postgraduate teaching and education, he served as a Clinical Lecturer for the Department of Surgery, Yong Loo Lin School of Medicine, NUS, from 2014 to 2021, before being appointed as an Assistant Professor. He is also the Associate Program Director of the NUHS General Surgery Residency Program, grooming the next generation of surgeons. He was awarded the NUS "Dean's Excellence Award" for teaching and education in 2017 and the "NUS Medicine Fortitude Award" in 2020 for educational contributions during the COVID crisis. He has authored more than 30 papers and has given multiple presentations, including presenting at Obesity Week/ASMBS 2014, during which he received the "Top 15 posters" award. He was also awarded the "Best Poster Award" at the 5th NCIS Annual Research Meeting in 2018 and the "Best Oral Presentation" award at the 29th Congress of the Korean Society of Surgical Metabolism and Nutrition in 2019. He has also served as an instructor at endoscopic and surgical workshops locally as well as in Malaysia and Bangladesh. He is an active reviewer for several journals including Annals of Surgical Oncology and Obesity Surgery, and is a member of the Singapore Medical Association (SMA), Endoscopic and Laparoscopic Surgeons of Asia Society (ELSA). He also serves in the EXCO for the Obesity

and Metabolic Surgery Society of Singapore (OMSSS) and is the national co-ordinator for The Upper Gastrointestinal Surgeons Society (TUGS).

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## **WORK EXPERIENCE**

### **Medical Student**

- ) Elective posting at University of Dar es Salaam, Tanzania Apr 2006 – Jun 2006
- ) Faculty of Medicine, National University of Singapore Aug 2002 – May 2007

### **House Officer**

- ) Medicine (Singapore General Hospital) May 2007 – Aug 2007
- ) General Surgery (Changi General Hospital, Singapore) Sep 2007 – Dec 2007
- ) Orthopaedic Surgery (Alexandra Hospital, Singapore) Jan 2008 – Apr 2008

### **Medical Officer**

- ) General Surgery (Changi General Hospital, Singapore) May 2008 – Oct 2008
- ) Orthopaedic Surgery (Changi General Hospital, Singapore) Nov 2008 – Apr 2009

### **National Service (NS)**

- ) Attended Medical Officer Cadet Course (MOCC) May 2009 – Aug 2009
- ) Platoon Commander, MOCC Aug 2009 – Jan 2011
  - Planned and executed 69<sup>th</sup>, 70<sup>th</sup> and 71<sup>st</sup> MOCC and 21<sup>st</sup>, 22<sup>nd</sup> and 23<sup>rd</sup> NS MOCC
  - Assist in the running of ATLS courses at the Life Support Training Centre, SAF ATLS Centre

### **General Surgery Resident at National University Hospital, Singapore**

- ) Junior staff house officer In-Charge May 2011 – Jun 2016
- ) Junior staff administration In-Charge Nov 2011 – Feb 2013
- ) Graduate Medical Education Committee Resident Representative Mar 2013 – Present
- ) Assistant Chief Resident – Quality 2013
- ) Chief Resident – General Surgery Jul 2014 – Jun 2015
- ) Chief Resident – General Surgery Jul 2015 – Dec 2015

### **Senior Service Resident at National University Hospital, Singapore**

- Clinical Lecturer, Department of Medicine, Yong Loo Lin School of Medicine Jul 2016 – Oct 2016
- Jul 2014 – Apr 2021

### **Associate Consultant at National University Hospital, Singapore**

- Core Faculty PGY1 Program Nov 2016 – Dec 2018
- Jul 2017 – Dec 2018
- International Fellowship at Seoul National University Bundang Hospital Dec 2018 – Dec 2019

### **Consultant at National University Hospital, Singapore**

- Core Faculty, General Surgery Residency Program Jan 2019 – Present
- Jul 2020 – Jun 2021
- Assistant Professor at National University of Singapore Apr 2021 – Present
- Associate Program Director, General Surgery Residency Program Jul 2021 – Present

## **QUALIFICATIONS**

- M.B.B.S. (Singapore) 30 April 2007

M.R.C.S. (Edinburgh)  
M.Med (General Surgery)  
F.R.C.S (Edinburgh)  
M.C.I.  
F.A.M.S.

4 February 2011  
30 June 2015  
17 November 2016  
30 June 2019  
9 July 2020

## **AWARDS**

1. "Top 15 posters" award with oral presentation "Goal-directed program after sleeve gastrectomy improves weight loss", Obesity Week/ASMBS 2014
2. "Dean's Excellence Award for teaching and education" 2017, Yong Loo Lin School of Medicine, National University of Singapore
3. "Best Poster Award" for Clinical Science – Surgical Oncology at the 5<sup>th</sup> NCIS Annual Research Meeting 2018
4. "Best Oral Presentation" award for "Frail elderly gastric cancer patients undergoing gastrectomy may have increased postoperative mortality risk" at the 29th Congress of the Korean Society of Surgical Metabolism and Nutrition & International Symposium in 2019
5. "NUS Medicine Fortitude Award" 2020, Yong Loo Lin School of Medicine, National University of Singapore

## **PUBLICATIONS**

1. Single-port endo-laparoscopic surgery in combined abdominal procedures; Asian J Endosc Surg. 2013 Aug;6(3):209-13. doi: 10.1111/ases.12037. PMID: 23879412
2. Single-incision laparoscopic hepatic resection in patients with previous hepatic resections: a mini case series. Asian J Endosc Surg. 2014 Jan;7(1):63-6. doi: 10.1111/ases.12072. PMID: 24450347
3. Goal-directed program after sleeve gastrectomy improves weight loss. Surg Obes Relat Dis. 2016 Mar-Apr;12(3):518-21. doi: 10.1016/j.soard.2015.11.014. PMID: 26944549
4. Is Elective Gastroscopy Prior to Bariatric Surgery in an Asian Cohort Worthwhile? – Obes Surg. 2016 Sep;26(9):2156-60. doi: 10.1007/s11695-016-2060-0. PMID: 26780361
5. Tips and tricks to avoid bile duct injury in SILC: an experience of 500 cases – Surg Endosc. 2016 Nov;30(11):4750-4755. PMID: 26932550
6. Extensive peritoneal lavage after curative gastrectomy for gastric cancer (EXPEL): study protocol of an international multicentre randomised controlled trial. Jpn J Clin Oncol. 2017 Feb 26;47(2):179-184. doi: 10.1093/jjco/hyw153. PMID: 28173154
7. Totally extra-peritoneal repair for acute incarcerated femoral hernia with intestinal obstruction - Int J Surg Case Rep. 2017;32:16-18. PMID: 28214396
8. The early effect of laparoscopic sleeve gastrectomy on taste change in a multiethnic Asian cohort. Ann Acad Med Singapore. 2017;46(6):254-255. PMID: 28733692
9. Paracaecal hernia: uncommon but important cause of small bowel obstruction successfully managed with laparoscopic surgery. ANZ J Surg. 2017. PMID: 29205731
10. An unfortunate soul: a rare presentation of an uncommon pathology for upper gastrointestinal bleeding. ANZ J Surg. 2017. PMID: 29216681
11. Single-Incision Laparoscopic Transgastric Underrunning and Closure of Cameron Ulcers in Acute Gastrointestinal Bleeding – J Gastrointest Surg. 2018 Mar;22(3):553-556. PMID: 29352439
12. Is Laparoscopic Sleeve Gastrectomy for Asian Super Obese a Safe and Effective Procedure? Ann Acad Med Singapore. 2018 May;47(5):177-184. PMID: 29911733
13. Study protocol: phase 1 dose escalating study of Pressurized Intra-Peritoneal Aerosol Chemotherapy (PIPAC) with oxaliplatin in peritoneal metastasis. Pleura Peritoneum. 2018 Aug 29;3(3):20180118. PMID: 30911663
14. Sleeve Gastrectomy and Roux-En-Y Gastric Bypass Lead to Comparable Changes in Body Composition in a Multiethnic Asian Population. J Gastrointest Surg. 2019 Mar;23(3):445-450. PMID: 30187324
15. Improvement in Non-alcoholic Fatty Liver Disease Score Correlates with Weight Loss in Obese Patients Undergoing Laparoscopic Sleeve Gastrectomy: a Two-Centre Study from an Asian Cohort. Obes Surg. 2019 Mar;29(3):862-868. doi: 10.1007/s11695-018-3581-5. PMID: 30515622

16. Enhanced recovery versus conventional care in gastric cancer surgery: a meta-analysis of randomized and non-randomized controlled trials. *Gastric Cancer*. 2019 May;22(3):423-434. PMID: 30805742
17. Pouch Versus No Pouch Following Total gastrectomy - Meta-analysis of Randomized and Non-randomized Studies. *Ann Surg*. 2019 Jun;269(6):1041-1053. PMID: 31082900
18. Influence of Asian Ethnicities on Short- and Mid-term Outcomes Following Laparoscopic Sleeve Gastrectomy. *Obes Surg*. 2019 Jun;29(6):1781-1788. PMID: 30767187
19. Kamikawa Double-Flap Reconstruction After Minimally Invasive Ivor-Lewis Esophagectomy. *Ann Thorac Surg*. 2019 Jul;108(1):e57-e59. PMID: 30872101
20. 15-year experience of laparoscopic gastrectomy in advanced gastric cancer: analysis on short-term and long-term oncologic outcome. *Surg Endosc*. 2019 Dec 9. doi: 10.1007/s00464-019-07292-x. PMID: 31820153
21. Follow-up after curative resection for gastric cancer: A survey of surgeons across the Asia-Pacific. *Asian J Surg*. 2020 Jan;43(1):389-390. PMID: 31677898
22. Laparoscopic Single-Port Transgastric Underrunning of a Dieulafoy Lesion. *Videoscopy Vol. 30, No. 1*. Published Online:31 Jan 2020 <https://doi.org/10.1089/vor.2019.0607>
23. Effect of bariatric surgery on glycemc profiles in multiethnic obese nondiabetic Asians. *Surg Obes Relat Dis*. 2020 Mar;16(3):422-430. doi: 10.1016/j.soard.2019.11.017. Epub 2019 Dec 3. PMID: 31954632
24. Laparoscopic gastrectomy and metastasectomy for stage IV gastric cancer. *Surg Endosc*. 2020 Apr 27. doi: 10.1007/s00464-020-07592-7. Online ahead of print. PMID: 32342215
25. Maternal and fetal outcomes of Asian pregnancies after bariatric surgery. *Surg Obes Relat Dis*. 2020 Apr;16(4):529-535. doi: 10.1016/j.soard.2020.01.017. Epub 2020 Jan 23. PMID: 32085937
26. Metabolic outcomes after revisional bariatric surgery: a systematic review and meta-analysis. *Surg Obes Relat Dis*. 2020 Jun 6:S1550-7289(20)30310-5. PMID: 32711955
27. Safety, pharmacokinetics and tissue penetration of PIPAC paclitaxel in a swine model. *Eur J Surg Oncol*. 2020:S0748-7983(20)30556-4. PMID: 32800400
28. PIPAC-OX: A Phase I study of Oxaliplatin-based Pressurized Intraperitoneal Aerosol Chemotherapy (PIPAC) in Patients with Peritoneal Metastases. *Clin Cancer Res*. 2020 Nov 4:clincanres.2152.2020. doi: 10.1158/1078-0432.CCR-20-2152. Online ahead of print. PMID: 33148667
29. Frailty in Elderly Gastric Cancer Patients Undergoing Gastrectomy. *Dig Surg*. 2020 Dec. doi:10.1159/000511895 PMID: 33291099
30. Anaesthesia considerations and techniques for Pressurised IntraPeritoneal Aerosol Chemotherapy (PIPAC). *Pleura Peritoneum*. 2020 Nov. PMID: 33575459
31. Extensive peritoneal lavage with saline after curative gastrectomy for gastric cancer (EXPEL): a multicentre randomised controlled trial. *Lancet Gastroenterol Hepatol*. 2021 Feb;6(2):120-127. PMID: 33253659
32. Association of metabolic-bariatric surgery with long-term survival in adults with and without diabetes: a one-stage meta-analysis of matched cohort and prospective controlled studies with 174 772 participants. *Lancet*. 2021 May 15;397(10287):1830-1841. PMID: 33965067
33. Admission discipline and timing of admission may influence outcomes for gastrointestinal bleeding patients. *ANZ J Surg*. 2021 Sep;91(9):1832-1840. doi: 10.1111/ans.16873. PMID: 33982881
34. Gastro-esophageal reflux disease (GERD) after peroral endoscopic myotomy (POEM). *Surg Endosc*. 2021 Jul 29. doi: 10.1007/s00464-021-08644-2. Online ahead of print. PMID: 34327547
35. 30-Day morbidity and mortality of bariatric metabolic surgery in adolescence during the COVID-19 pandemic - The GENEVA study. *Pediatr Obes*. 2021 Dec;16(12):e12832. doi: 10.1111/ijpo.12832. Epub 2021 Jul 8. PMID: 34240553
36. 30-Day Morbidity and Mortality of Bariatric Surgery During the COVID-19 Pandemic: a Multinational Cohort Study of 7704 Patients from 42 Countries. *Obes Surg*. 2021 Oct;31(10):4272-4288. doi: 10.1007/s11695-021-05493-9. Epub 2021 Jul 30. PMID: 34328624
37. Induction of gastric cancer by successive oncogenic activation in the corpus. *Gastroenterology*. 2021 Dec;161(6):1907-1923.e26. doi: 10.1053/j.gastro.2021.08.013. Epub 2021 Aug 12. PMID: 34391772
38. Structured Training for Laparoscopic Appendectomy for Residents (STAR Trial)-A Randomized Pilot Study. *J Surg Res*. 2021 Dec;268:363-370. doi: 10.1016/j.jss.2021.06.073. Epub 2021 Aug 14. PMID: 34399358
39. Single-cell atlas of lineage states, tumor microenvironment and subtype-specific expression programs in gastric cancer. *Cancer Discov*. 2021 Oct 12:candisc.0683.2021. doi: 10.1158/2159-8290.CD-21-0683. Online ahead of print. PMID: 34642171

40. Coronavirus viability in surgical plume and methods for safe disposal: a preclinical model. Br J Surg. 2021 Dec 17;109(1):15-20. doi: 10.1093/bjs/znab385. PMID: 34792098
41. 30-day morbidity and mortality of sleeve gastrectomy, Roux-en-Y gastric bypass and one anastomosis gastric bypass: a propensity score-matched analysis of the GENEVA data. Int J Obes (Lond). 2021 Dec 15:1-8. doi: 10.1038/s41366-021-01048-1. Online ahead of print. PMID: 34912046

### Textbook chapter publications

1. Two or Combined Procedures. In: Toshiyuki Mori, Giovanni Dapri; Reduced Port Laparoscopic Surgery. Springer; 2014. pp 483-489
2. Follow-Up After Gastric Cancer Treatment. In: Sung Hoon Noh, Woo Jin Hyung; Surgery for Gastric Cancer. Springer; 2019. Pp 327-340

### Journal Reviewer

1. Journal of Cancer
2. Asian Journal of Endoscopic Surgery
3. Proceedings of Singapore Healthcare
4. Obesity Surgery
5. BMC Gastroenterology
6. BMC Surgery
7. Annals of Surgical Oncology
8. Frontiers in Surgery
9. Life
10. Journal of Surgical Simulation
11. Journal of Clinical Medicine
12. Frontiers in Bioscience-Landmark

### Professional Memberships

1. Singapore Medical Association
2. Fellow of the Royal College of Surgeons, Edinburgh
3. Obesity and Metabolic Surgery Society of Singapore
4. Endoscopic and Laparoscopic Surgeons of Asia Society
5. **Singapore Coordinator (May 2021 – Present)**, The Upper Gastrointestinal Surgeons Society (TUGS)

### Research area of interest

1. Upper gastrointestinal surgery (including esophageal and gastric cancer)
2. Metabolic and bariatric surgery
3. Minimally invasive and robotic surgery
4. Diagnostic and therapeutic endoscopy
5. Peritoneal metastasis
6. Novel technology and Surgical techniques

### Ongoing research projects (as the Principle Investigator)

1. EndoSpec Study (A Randomized Controlled Trial of Endoscopy with SPECTRA IMDx for the Diagnosis of Early Gastric Cancer and Precancerous Lesions/Intestinal Metaplasia)
2. PIPAC2 (Phase 1 study of Pressurized IntraPeritoneal Aerosol Chemotherapy (ePIPAC) with Paclitaxel for Peritoneal Carcinomatosis)

### Grants

1. MOH-CNIG18nov-0006 (\$200,000)

2. CSSSP20nov-0005