



## CURRICULUM VITAE

Name: **Chou Chu-Kuang** 周菖光

Gender: Male

現任

1. 嘉義基督教醫院 內科部副部主任
2. 嘉義基督教醫院 減重中心主任

經歷

嘉義基督教醫院 腸胃科主任、內視鏡主任、醫療品質部副主任、臨床試驗中心主任

## Experience

1. Associated Director of Internal Medicine, Chia-Yi Christian Hospital, Taiwan
2. Director of obesity center, Chiayi Christian Hospital, Taiwan
3. Visiting staff, gastroenterology and hepatology, Chiayi Christian Hospital, Taiwan
4. Previous Associated Director of Medical Quality, Chia-Yi Christian Hospital, Taiwan
5. Previous director of gastroenterology and hepatology, Chiayi Christian Hospital, Taiwan
6. Previous director of digestive endoscopic unit, Chiayi Christian Hospital, Taiwan
7. Previous director of clinical trial center, Chiayi Christian Hospital, Taiwan

## EDUCATION AND PROFESSIONAL BACKGROUND

Medical doctor, College of Medicine, National Taiwan University

Fellowship of Gastroenterology and hepatology, National Taiwan University Hospital

## BOARD CERTIFICATE

Specialist, Internal Medicine Society of Taiwan

Specialist, Gastroenterological Society of Taiwan

Specialist, Digestive endoscopy Society of Taiwan



## Expertise

1. Obesity care and bariatric endoscopy
2. Advanced GI therapeutic endoscopy: early GI cancers, functional treatment, and bariatric endoscopy
3. Esophageal motility disorder
4. Clinical coordination and clinical trial

## Publication:

1. Chen TH, Jeng TH, Lee MY, Wang HC, Tsai KF, **Chou CK**. Viral mitochondriopathy in COVID-19. *Redox Biol.* 2025;85:103766.
2. Weng WC, Huang CW, Su CC, Mukundan A, Karmakar R, Chen TH, Avhad AR, **Chou CK**, Wang HC. Optimizing Esophageal Cancer Diagnosis with Computer-Aided Detection by YOLO Models Combined with Hyperspectral Imaging. *Diagnostics (Basel)*. 2025;15(13):1686.
3. Su CC, **Chou CK**, Mukundan A, Karmakar R, Sanbatcha BF, Huang CW, Weng WC, Wang HC. Capsule Endoscopy: Current Trends, Technological Advancements, and Future Perspectives in Gastrointestinal Diagnostics. *Bioengineering (Basel)*. 2025;12(6):613.
4. Chang LJ, **Chou CK**, Mukundan A, Karmakar R, Chen TH, Syna S, Ko CY, Wang HC. Evaluation of Spectral Imaging for Early Esophageal Cancer Detection. *Cancers (Basel)*. 2025;17(12):2049.
5. Huang CW, Su CC, **Chou CK**, Mukundan A, Karmakar R, Chen TH, Shukla P, Gupta D, Wang HC. Software-Based Transformation of White Light Endoscopy Images to Hyperspectral Images for Improved Gastrointestinal Disease Detection. *Diagnostics (Basel)*. 2025;15(13):1664.
6. Kuo LF, Liu WC, Li MF, Huang FH, **Chou CK**, Chen TH, Tsai YT, Hsu PI, Li CJ, Wu IT, Tsai KF. Prognostic Evaluation of Conversion Therapy following Hepatic Arterial Infusion Chemotherapy or Immunotherapy in Patients with Advanced or Transarterial Chemoembolization Unsuitable Intermediate-Stage Hepatocellular Carcinoma: A Retrospective Cohort Study. *Oncology*. 2025;103(7):549-561.
7. Kuo HY, Karmakar R, Mukundan A, **Chou CK**, Chen TH, Huang CW, Yang KY, Wang HC. Small intestinal bleeding prediction by spectral reconstruction through band selection. *J Biomed Opt.* 2025; 30(3):036004.
8. Chen TH, Lin SH, Lee MY, Wang HC, Tsai KF, **Chou CK**. Mitochondrial Alterations and Signatures in Hepatocellular Carcinoma. *Cancer Metastasis Rev* 2025;44(1):34.
9. Chong KS, Yang CT, Chang YH, Kuo S, Chen JH, Lee CA, Chang E, **Chou CK**, Ou HT. Obesity/overweight prevalence and economic burdens by bariatric surgery, metabolic syndrome, and related comorbidity in 2013-2019: a nationwide descriptive analysis. *Surg Obes Relat Dis.* 2025;S1550-7289(25)00009-7.



10. Yang PC, Huang CW, Karmakar R, Mukundan A, Chen TH, **Chou CK**, Yang KY, Wang HC. Precision Imaging for Early Detection of Esophageal Cancer. *Bioengineering (Basel)*. 2025;12(1):90.
11. Chen CC, **Chou CK**, Yuan MC, Tsai KF, Wu JF, Liao WC, Chiu HM, Wang HP, Wu MS, Tseng PH. Effect of anti-reflux mucosal ablation on esophageal motility in patients with gastroesophageal reflux disease: a study based on high-resolution impedance manometry. *J Neurogastroenterol Motil*. 2025;31(1):75-852024
12. Lee YC, Chiang TH, Chiu HM, Su WW, Chou KC, Chen SL, Yen AM, Fann JC, Chiu SY, Chuang SL, Chen YR, Chen SD, Hu TH, Fang YJ, Wu MS, Chen TH, Yeh YP; Collaborators of Taiwan Community-based Integrated Screening Group. Screening for Helicobacter pylori to Prevent Gastric Cancer: A Pragmatic Randomized Clinical Trial. *JAMA*. 2024;332(19):1642-1651.
13. Chuah YY, Lee YY, Hsieh SP, **Chou CK**. Endoscopic Argon Plasma Coagulation Ablation of Cervical Inlet Patch Improves Proton-Pump Inhibitor-Refractory Laryngopharyngeal Symptoms. *Adv Dig Med*. 2024
14. Chen SS, Lee WJ, Kang LY, **Chou CK**. Preliminary experience with 18 months result of endoscopic sleeve gastropasty from an Asian population: Learning curve of one bariatric surgeon. *Formo J Surg*. 2024;57(3):93-99.
15. Chong KS, Chang YH, Yang CT, **Chou CK**, Ou HT, Kuo S. Longitudinal economic burden of incident complications among metabolic syndrome populations. *Cardiovasc Diabetol*. 2024;23(1):246.
16. Chuah YY, Lee CY, Toh DE, Chen HY, Tsai KF, Fu KI, **Chou CK**. Marking can improve defect closure in endoscopic suturing systems. *Endoscopy*. 2024;56(S01):E556-E557.
17. **Chou CK**, Karmakar R, Tsao YM, Jie LW, Mukundan A, Huang CW, Chen TH, Ko CY, Wang HC. Evaluation of Spectrum-Aided Visual Enhancer (SAVE) in Esophageal Cancer Detection Using YOLO Frameworks. *Diagnostics (Basel)*. 2024;14(11):1129.
18. Tseng CH, Chang LC, Wu JL, Chang CY, Chen CY, Chen PJ, Shun CT, Hsu WF, Chen YN, Chen CC, Huang TY, Tu CH, Chen MJ, **Chou CK**, Lee CT, Chen PY, Lin JT, Wu MS, Chiu HM. Bleeding Risk of Cold Versus Hot Snare Polypectomy for Pedunculated Colorectal Polyps Measuring 10 mm or Less: Subgroup Analysis of a Large Randomized Controlled Trial. *Am J Gastroenterol*. 2024;119(11):2233-2240.
19. Chuah YY, Lee YY, **Chou CK**, Chang LJ. Catharanthus roseus intoxication mimicking acute cholangitis. *BMC Complement Med Ther*. 2024;24(1):139.
20. Toh DE, Yii CY, Hu PJ, Chen BJ, Chen MY, **Chou CK**, Lee CY. Endoscopic full-thickness resection using double endoscope-assisted snare traction for a large exophytic gastric subepithelial lesion. *VideoGIE*. 2023;9(3):130-133.
21. Yuan MC, **Chou CK**, Chen CC, Wang HP, Wu JF, Tseng PH. Characteristics of Esophageal Motility and Associated Symptom Profiles in Patients with Esophageal Diverticulum: A Study Based on High-Resolution Impedance Manometry. *Dig Dis Sci*. 2024;69(2):510-520.
22. Chen HY, Lee CY, Hsu CW, Yeh JH, Chen TH, Tsai KF, **Chou CK**. Double-endoscope endoscopic submucosal dissection with snare traction and loop stabilization for adenoma involving appendiceal



- orifice. Endoscopy. 2023 Dec;55(S 01):E1203-E1204.
23. **Chou CK**, Nguyen HT, Wang YK, Chen TH, Wu IC, Huang CW, Wang HC. Preparing Well for Esophageal Endoscopic Detection Using a Hybrid Model and Transfer Learning. *Cancers (Basel)*. 2023;15(15):3783.
  24. **Chou CK**, Chen CC, Tai CM, Tsai KF, Lee CY, Toh DE, Chen SS. Defect closure with endoscopic suturing improves endoscopic full-thickness resection of duodenal gastrointestinal stromal tumors. *Endoscopy* 2023;55:E688-E689.
  25. **Chou CK**, Chen CC, Chen SS, Lee CT, Tsai KF. Snare traction and endoscopic suturing can improve endoscopic management of gastrointestinal stromal tumors at the gastric greater curvature. *Endoscopy* 2023;55:E216-E217.
  26. Chen MJ, Chen PY, Fang YJ, Bair MJ, Chen CC, Chen CC, Yang TH, Lee JY, Yu CC, Kuo CC, Chiu MC, **Chou CK**, Chen CY, Hu WH, Tsai MH, Hsu YC, Shun CT, Luo JC, Lin JT, El-Omar EM, Wu MS, Liou JM, Taiwan Gastrointestinal D, Helicobacter C. Molecular testing-guided therapy versus susceptibility testing-guided therapy in first-line and third-line Helicobacter pylori eradication: two multicentre, open-label, randomised controlled, non-inferiority trials. *Lancet Gastroenterol Hepatol* 2023;8:623-634.
  27. Chang LC, Chang CY, Chen CY, Tseng CH, Chen PJ, Shun CT, Hsu WF, Chen YN, Chen CC, Huang TY, Tu CH, Chen MJ, **Chou CK**, Lee CT, Chen PY, Wu MS, Chiu HM. Cold Versus Hot Snare Polypectomy for Small Colorectal Polyps: A Pragmatic Randomized Controlled Trial. *Ann Intern Med* 2023;176:311-319.
  28. **Chou CK**, Chen CC, Chen CC, Wu JF, Liao WC, Chiu HM, Wang HP, Wu MS, Tseng PH. Positive and negative impact of anti-reflux mucosal intervention on gastroesophageal reflux disease. *Surg Endosc* 2023;37(2):1060-1069.
  29. Lee CY, Tsai KF, Hsu CW, **Chou CK**. Exploring the landscape of colorectal endoscopic submucosal dissection in Taiwan: In-depth investigation of complication risks. *Adv Dig Med*. 2023;10: 203-205.
  30. **Chou CK**, Chen CC, Chen SS, Lee CT, Tsai KF. Snare traction and endoscopic suturing can improve endoscopic management of gastrointestinal stromal tumors at the gastric greater curvature. *Endoscopy* 2022;55(S 01):E216-E217.
  31. Toh DE, Cheng IC, Tsai KF, Liu H, Lee CT, Hsu CW, **Chou CK**. Endoscopic Full-Thickness Resection with Retroperitoneal Dissection for Duodenal Myogenic Cyst with Adjustable Traction from an Independently Controlled Snare. *VideoGIE* 2022;8(1):11-13.
  32. Chen TH, Koh KY, Lin KMC, **Chou CK**. Mitochondrial Dysfunction as an Underlying Cause of Skeletal Muscle Disorders. *Int. J. Mol. Sci.* 2022, 23, 12926.
  33. Yuan MC, Lee CT, Tsai KF, Hsu CW, **Chou CK**. Expanding rather than closing the wound can rescue the endoscopic procedure when massive bleeding occurs during endoscopic submucosal dissection. *Endoscopy* 2022;54(S 02):E1036-E1037.
  34. **Chou CK**, Tsai KF, Tseng CH, Lee CT, Yang KH, Chang MC, Hsu CW. Novel Colorectal Endoscopic Submucosal Dissection With Double-Endoscope and Snare-Based Traction. *Dis Colon Rectum*



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35. Chen MJ, Bair MJ, Chen PY, Lee JY, Yang TH, Fang YJ, Chen CC, Chang AT, Hsiao WD, Yu JJ, Kuo CC, Chiu MC, Lin KP, Tsai MH, Hsu YC, **Chou CK**, Chen CY, Lin JT, Lee YC, Wu MS, Liou JM, for the Taiwan Gastrointestinal D, Helicobacter C. Declining trends of prevalence of Helicobacter pylori infection and incidence of gastric cancer in Taiwan: An updated cross-sectional survey and meta-analysis. *Helicobacter* 2022;27:e12914.
36. Chang MC, Tseng CL, Hsu CH, **Chou CK**, Hsu CW. Rubber band-clip traction for endoscopic submucosal dissection involving the appendiceal orifice - a video vignette. *Colorectal Dis.* 2022;24(2):243-244.
37. Hsu CW, Chien HY, Lin KH, Chen YH, **Chou CK**. Utilization of the left hand to facilitate precise endoscopic control during colorectal endoscopic submucosal dissection - a video vignette. *Colorectal Dis.* 2022;24(2):247
38. Shieh TY, Chen CC, **Chou CK**, Hu TY, Wu JF, Chen MJ, Wang HP, Wu MS, Tseng PH. Clinical efficacy and safety of peroral endoscopic myotomy for esophageal achalasia: A multicenter study in Taiwan. *J Formos Med Assoc* 2022;121:1123-1132.
39. Chen TH, Hsu MT, Lee MY, **Chou CK**. Gastrointestinal Involvement in SARS-CoV-2 Infection. *Viruses* 2022;14.
40. Chang LJ, Chang HC, Chen PY, Chen CY, Tsai KF, Yean KK, Yang HY, Chen TH, Yu PT, **Chou CK**, Chen SH. Factors Associated with the Refusal of Direct-Acting Antiviral Agents for the Treatment of Hepatitis C in Taiwan. *Medicina (Kaunas)* 2022;58:521.
41. **Chou CK**, Liao KS, Chen CY, Lin IL, Tsai KF. Management of gastrointestinal subepithelial tumors with endoscopic resection. *Adv Dig Med.* 2022;9: 23-30.
42. Chen PY, Yang HY, **Chou CK**, Chang LJ, Hsu MT, Tsai TJ, Fang CC, Su CC, Lin YL, Feng YM, Chen CY. The effectiveness and safety of sofosbuvir-ledipasvir for patients with hepatitis C virus genotype 2 infection. *Adv Dig Med.* 2022;9:91-97.
43. Wang YX, Chang MC, Wu CC, **Chou CK**, Hsu CH, Hsu CW. An 'ileal-side-first' approach for endoscopic submucosal dissection involving the ileocaecal valve - a video vignette. *Colorectal Dis* 2021;23:2482-2483.
44. Tsai KF, Tsai JCH, Li MF, Tan JWH, **Chou CK**, Liang HL, Chan SH. Complete Response in Metastatic Hepatocellular Carcinoma with Cardiac and Lung Involvement via Multimodality Treatment. *Medicina (Kaunas)* 2021;57.
45. **Chou CK**, Tsai KF, Chang LC, Hsu CW. Endoscopic submucosal dissection with double-endoscope and snare-based traction for adenoma involving the ileocecal valve. *Endoscopy.* 2022;54(10):E548-E549.
46. Feng YM, Chen TH, Berman D, **Chou CK**, Liao KS, Hsieh MC, Chen CY. Efficacy of Cyproheptadine Monotherapy in Hepatocellular Carcinoma With Bone Metastasis: A Case Report. *Front Oncol* 2021;11:620212.
47. **Chou CK**, Yang PC, Tsai PY, Yang HY, Tsai KF, Chen TH, Liao KS, Chen CY, Lee JA. Methylglyoxal Levels in



Human Colorectal Precancer and Cancer: Analysis of Tumor and Peritumor Tissue. *Life (Basel)* 2021;11:1319.

48. **Chou CK**, Wu CC, Chang MC, Hsu CH, Wang YX, Hsu CW. Rubber band-clip traction can facilitate colonic endoscopic submucosal dissection of a laterally spreading tumour involving the caecal diverticulum - a video vignette. *Colorectal Dis* 2021;23:2203.
49. **Chou CK**, Huang YS, Lin PY, Imai K, Chen SM, Lee JA. The Ginsenoside Rg1 Rescues Mitochondrial Disorders in Aristolochic Acid-Induced Nephropathic Mice. *Life (Basel)* 2021;11:1018.
50. Chen PY, Tsai TJ, Yang HY, **Chou CK**, Chang LJ, Chen TH, Hsu MT, Fang CC, Su CC, Lin YL, Feng YM, Chen CY. The Incidence of Bacteremia and Risk Factors of Post-Radiofrequency Ablation Fever for Patients with Hepato-Cellular Carcinoma. *Cancers (Basel)* 2021;13:5303.
51. Chen KT, Tsai KF, Leung HWC, Chan ALF, Wang SY, Liang HL, Tang SY, **Chou CK**, Chen HY, Chan SH, Li MF. Hepatic Arterial Infusion Chemotherapy Followed by Lipiodol Infusion for Advanced Hepatocellular Carcinoma with Portal Vein Tumor Thrombus: A Single-Center Experience. *Medicina (Kaunas)* 2021;57:779.

