

JDDW 2023 KOBE JAPAN DIGESTIVE DISEASE WEEK 2023

The 7th Joint Session between JDDW-KDDW-TDDW

Abstract Booklet

https://www.jddw.jp/

Kazuhiko Koike



I am Kazuhiko Koike, President of the Organization of Japan Digestive Disease Week (JDDW). It is a great pleasure for me to announce and host the 7th JDDW-KDDW-TDDW (JKT) joint symposium in Kobe. Through the past six occasions, various improvements have been made by the efforts of the respective DDWs, which have indeed fostered this academic activity to become more and more mature and meaning-ful. This 7th JKT joint symposium will be held as parallel sessions using two rooms in order to secure enough time for deeper discussions on the respective important topics of the upper GI, lower GI, liver and pancreato-biliary categories. In addition, proceedings of the joint symposium will be prepared so that the JKT joint symposium will become a precious opportunity to promote collaborations for clinical research work among investigators of the 3 DDWs.

At the beginning of 2023, the 8th wave of COVID-19 caused by the SARS-CoV Omicron strain is finally coming to an end in Japan, and Japan government has executed the plan of the class change of SARS-CoV infectious diseases from category 2 to 5. Although there are still some uncertainties, I hope that many of you will visit Kobe, and that it will be a fruitful academic meeting.

Finally, I would like to express my heartfelt appreciation to the executive board members of the KDDW and TDDW, and all the presenters, moderators and discussants of this symposium for your kind understanding and warm support.

President, Japan Digestive Disease Week

Jae Gyu Kim



I would like to congratulate JDDW 2023 and the 7th Joint Session between JDDW-KDDW-TDDW 2023 as the representative of Korean Digestive Disease Week 2023 and the Korean Society of Gastroenterology. I am really grateful to the JDDW 2023 Steering Committee for preparing well even under difficult circumstances.

The Joint Session between JDDW-KDDW-TDDW 2023 has developed by the continuous efforts from JDDW of Japan, KDDW of Korea and TDDW of Taiwan until now. I think our three countries have to develop the Joint Session even more based on these good collaboration and foundation so far. I am very pleased to see that these goals are gradually being realized after I look through the contents of the program. I am confident that our researchers and scholars from three countries will be able to enjoy a

festival where they share new knowledge and interests in the field of gastroenterology. In addition, I would like to say that our three countries need to work together for further development based on this Joint Session.

The 8th Joint Session will be held in Korea next year. We will do our best to make it a great success. Lastly, I would like to express my deepest gratitude to everyone who prepared for the Joint Session between JDDW-KDDW-TDDW 2023 and to those who attended.

President, Korea Digestive Disease Week 2023 President, The Korean Society of Gastroenterology

Ming-Shiang Wu



Dear Esteemed Colleagues and Distinguished Guests,

On behalf of the Gastroenterological Society of Taiwan (GEST), it is my great pleasure to extend a warm welcome to the first in-person meeting of the Japan-Korea-Taiwan (JKT) joint session at JDDW 2023.

This significant event marks a momentous occasion as we convene for the first time in person after enduring the challenges posed by the COVID-19 pandemic. The resilience and commitment of our medical communities have allowed us to come together again, fostering the spirit of collaboration and knowledge exchange.

Japan, Korea, and Taiwan share not only common digestive disease patterns but also similar trajectories in economic development and healthcare systems. These similarities create a unique synergy that enhances our collective ability to address the complexities of digestive health. This joint session stands as an ideal

platform for clinicians and researchers from these three countries to share cutting-edge knowledge and the latest advances in digestive medicine.

In this collaborative environment, I am confident that our shared expertise will pave the way for innovative breakthroughs, ultimately benefiting patients across our nations. I encourage all participants to actively engage in discussions, foster partnerships, and explore new avenues of research.

I extend my heartfelt gratitude to everyone involved in organizing this event, and I eagerly anticipate fruitful discussions, inspiring insights, and lasting collaborations.

Thank you for your dedication to advancing the field of gastroenterology. Together, let us embark on this journey of knowledge exchange and transformative progress.

Warm regards,

Prof. Ming-Shiang Wu President, The Gastroenterological Society of Taiwan (GEST)

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The 7th Joint Session between

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	Chair (K):	Tae Il Kim Department of Internal Medicine, Yonsei University College of Medicine, Korea
	Chair (T):	Han-Mo Chiu National Taiwan University Hospital, Taiwan
	Discusser (J):	Yosuke Fukunaga Department of Gastroenterological Surgery, Gastroenterological Center, Cancer Institute Hospital, Japan
	Discusser (K):	Bo-In Lee Department of Internal Medicine, The Catholic University of Korea College of Medicine, Korea
	Discusser (T):	Chien-Chih Chen Koo Foundation Sun Yat-Sen Cancer Center, Taiwan
	Speaker (J):	JKT1-1 Evolution of lower rectal cancer treatment with multidisciplinary approach. Yuji Toiyama Department of Gastrointestinal and Pediatric Surgery, Division of Reparative Medicine, Institute of Life Sciences, Mie University Graduate School of Medicine, Tsu, Japan
	Speaker (K):	JKT1-2 Long-term Outcomes of Endoscopic Resection in T1 Colorectal Cancer and Strategies for Determining Additional Surgery Yunho Jung Department of Internal Medicine, Soonchunhyang University College of Medicine, Cheonan, South Korea
	Speaker (T):	JKT1-3 Adding bevacizumab to neoadjuvant chemoradiotherapy increases pathological complete remission and survival in patients with locally advanced rectal cancer Jason Chia-Hsien Cheng Department of Oncology, National Taiwan University Hospital, Taiwan
	Rising Star Program (J):	JKT1-RS1 Colonoscopy for colorectal cancer screening and management of early colorectal cancer Masau Sekiguchi <i>Cancer Screening Center/Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan</i>
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HI LINE T	Rising Star Program (T):	JKT1-RS3 Role of endoscopic muscular dissection for rectal cancer with clinical complete response after concurrent chemoradiotherapy Chao-Wen Hsu Division of Colorectal Surgery, Kaohsiung Veterans General Hospital, Taiwan
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Evolution of lower rectal cancer treatment with multidisciplinary JKT1-1 approach.

Yuji Toiyama¹, Mikio Kawamura¹, Yoshinaga Okugawa²

¹⁾Department of Gastrointestinal and Pediatric Surgery, Division of Reparative Medicine, Institute of Life Sciences, Mie University Graduate School of Medicine, Tsu, Japan, ²⁾Department of Genomic Medicine, Mie University Hospital, Tsu, Japan

In Japan, historically, surgery is the primary treatment for lower rectal cancer. Total mesorectal excision (TME) has established the standard surgical approach for rectal cancer since 1980 and has significantly improved local control and survival rates. In addition, from evidence achieved by JCOG0212, the JSCCR Guidelines recommend performing TME with lateral lymph node dissection (LLND) for cT3 or deeper lower rectal cancer. In the West, the therapeutic effects of extended lymph node dissection including with LLND were reported in the 1950s.

However, due to a high incidence of distant recurrence and postoperative sexual and urinary dysfunction, several clinical trials demonstrated the usefulness of radiation therapy with concurrent chemotherapy before surgery for the suppression of local recurrence. Since then, preoperative chemoradiotherapy (CRT) + TME has become the standard treatment

Thus, while both preoperative CRT and LLND aim to control pelvic local recurrence, they face challenges in controlling distant metastasis and improving survival. In this context, a powerful preoperative treatment known as Total Neoadjuvant Therapy (TNT), which sequentially introduce radiation therapy and systemic chemotherapy before surgery, has been introduced in Western countries, and demonstrated further shrinking the primary tumor and reducing distant metastasis. The development of preoperative CRT for rectal cancer has resulted in an increase in cases achieving pathological complete response (CR). In 2004, Habr-Gama proposed the Watch & Wait approach, which involves avoiding immediate surgery and observing patients who achieve clinical CR after preoperative treatment. This approach has been validated as a safe and high-quality treatment primarily in Europe and the United States. It represents a significant shift from the conventional concept of surgery and is expected to increase the proportion of rectal cancer patients who can undergo organ preservation by introducing TNT in the preoperative treatment.

Advances in molecular profiling and genetic testing have enabled the identification of specific genetic mutations or biomarkers in rectal cancer. In particular, the patients with microsatellite satellite instability have merit to use immune checkpoint inhibitors, since high clinical CR rate in extremely high rate and non-operative management can be achieved. Overall, the evolution of lower rectal cancer treatment with a multidisciplinary approach has led to improved outcomes, reduced morbidity, and enhanced quality of life for patients. Collaboration among surgeons, medical oncologists, radiation oncologists, pathologists, radiologists, and other healthcare professionals is crucial in delivering optimal care and tailoring treatments to individual patients.

Curriculum Vitae



Yuji Toiyama

Department of Gastrointestinal and Pediatric Surgery, Division of Reparative Medicine, Institute of Life Sciences, Mie University Graduate School of Medicine, Tsu, Japan

Name: Yuji Toiyama, MD, PhD, FACS Date of Birth: July 25,1969 Present Academic Rank and Position: Professor of both Department of Gastrointestinal & Pediatric Surgery and Innovative Surgery and Surgical Techniques Development, Division of Clinical Sciences, Mie University Graduate School of Medicine in Japan. Research Career and Experience

1. Education: 1997: MD. Mie University School of Medicine 2005: Ph.D. Mie University Graduate School of Medicine

- 2007-2011: Associate Professor, Mie University Hospital 2007-2011: Assistant Professor, Mie University Hospital 2011-2013: Visiting Researcher, Post Doctor Fellow, Baylor Medical Center

- 2011-2013: Visiting Researcher, Post Doctor Fellow, Baylor Medical Center at DALLAS
 2013-2016: Associate Professor, Department of Gastrointestinal and Pediatric Surgery
 2018-2020: Associate Professor, Department of Gastrointestinal and Pediatric Surgery
 2020: Professor, Department of Gastrointestinal &Pediatric Surgery, Division of Clinical Sciences, Mie University Graduate School of Medicine
 2022: Professor, Department of Innovative Surgery and Surgical Techniques Development, Division of Clinical Sciences, Mie University Graduate School of Medicine School of Medicine

- 3. Board certification Japan Surgical Society •The Japanese Society of Gastroenterological Surgery •The Japanese Society for Coloproctology •The Japanese Society of Gastroenterology •The Japanese Gastroenterological Association •The Japanese Society for Hereditary Tumors •Japanese Society for Abdominal Emergency Medicine Japanese Society for Abdominal Emergency Medicine Japanese Board of Cancer Therapy Infection Control Doctor

- American College of Surgeons Fellow (FACS)

4 Research Fields

His attention has focused on colorectal surgery with bowel function and organ preservation for the patients with colorectal cancer and inflammatory bowel disease as well as perioperative management for the goal of decreasing surgical complications.

Notable achievements of his research are the molecular biology of colorectal Rotable active and inflammatory bowel disease to understand the genetic and epigenetic mechanisms involved in the development and progression of these diseases. His work shed light on the underlying factors contributing to the aggressive nature of these diseases and pave the way for potential diagnostic and therapeutic interventions.

5. Bibliography English articles: 307 papers, First Author: 50 papers

Representative first author's papers -Changes in surgical therapies for rectal cancer over the past 100 years: A review

review. Ann Gastroenterol Surg. 2020 May 10:4(4):331-342. A Panel of Methylated MicroRNA Biomarkers for Identifying High-Risk Patients With Ulcerative Colitis-Associated Colorectal Cancer Gastroenterology. 2017 Dec;153(6):1634-1646.e8. Circulating microRNA-203 predicts prognosis and metastasis in human colorectal cancer Gut. 2017 Apr;66(4):654-665. Serum miR-200c is a novel prognostic and metastasis-predictive biomarker in patients with colorectal cancer Ann Surg. 2014 Apr;259(4):735-43. -Elevated serum angiopoietin-like protein 2 correlates with the metastatic properties of colorectal cancer. A serum biomarker for early diagnosis and

properties of colorectal cancer: a serum biomarker for early diagnosis and ecurrence Clin Cancer Res. 2014 Dec 1;20(23):6175-86.

Serum miR-21 as a diagnostic and prognostic biomarker in colorectal cancer

J Natl Cancer Inst. 2013 Jun 19;105(12):849-59.

^{2.} Professional Training and Employment:

Long-term Outcomes of Endoscopic Resection in T1 Colorectal Cancer JKT1-2 and Strategies for Determining Additional Surgery

Yunho Jung

Department of Internal Medicine, Soonchunhyang University College of Medicine, Cheonan, South Korea

Introduction: Colorectal cancer (CRC) is the third or fourth commonest cancer worldwide. Some of the CRCs, which were treated only by surgery, are increasing in frequency of being treated with endoscopic procedures such as endoscopic mucosal resection (EMR) and endoscopic submucosal dissection (ESD). However, since Lymph node metastasis (LNM) is observed in some T1 CRC cases, it is essential to consider the possibility of LNM before deciding on endoscopic and surgical treatment. In this chapter, I'd like to discuss the long-term outcome after endoscopic treatment in T1 CRC.

Histological classification and LNM: Depth of invasion into the submucosa and deeper colonic layers based on pathological assessment have been described according to different classification methods such as TNM staging, Haggitt, and Kikuchi systems. According to "TNM staging" of CRC, T1 means the malignant cells invade through the muscularis mucosae into the submucosa but do not breach the muscularis propria. 1 The incidence of LNM was reported to be 6.8-17.8% in T1 CRC.2 Recommendation by current guidelines: The indication criteria for surgical resection as an additional treatment after endoscopic resection of T1 CRC have been defined in the Korean,3 Japanese,4, and United States guidelines.5 Surgical resection with lymph node dissection is recommended if any of the following findings is observed: (1) positive vertical margin; (2) depth of curburgues 100 mm (2) positive uproper uprices in the different index defined and programme or multiplication and programme. (5) Turne hurding

of submucosal invasion>100µm; (3) positive lymphovascular invasion; (4) poorly differentiated adenocarcinoma, signet-ring cell carcinoma, or mucinous carcinoma; (5) Tumor budding (BD2/3)

Comparison of Outcomes of Endoscopic resection vs surgery: A population-based study of 13,157 patients reported no difference in the 5-year survival rate between endoscopic resection and surgical treatment for early-stage colon cancers located in the left colon regardless of size and right-sided lesions that were <2 cm; however, surgical resection had greater survival in comparison to endoscopic resection (20-39 mm: 91.8 vs 74.2%; ≥40 mm: 92.4 vs 60%).6 Similarly, Mounzer et al also reported no difference in 5-year colorectal cancer-specific recurrencefree survival rates (97.6% vs 97.5%; p=0.75) between endoscopic resection and surgical resection of T1 colorectal tumors.7

Conclusions: When endoscopic removal was performed based on the current guidelines considering the possibility of L/N metastasis for T1 CRC, the long-term outcome does not appear to be inferior to surgical removal. After endoscopic removal of T1 CRC, it is considered important to establish additional surgery plans or appropriate follow-up plans based on histological results. References

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 Saitoh Y, Inaba Y, Sasaki T, Sugiyama R, Sukegawa R, Fujiya M. Management of colorectal T1 carcinoma treated by endoscopic resection. Dig Endosc 2016;28:324-9.
 Park CH, Yang DH, Kim JW, et al. Clinical Practice Guideline for Endoscopic Resection of Early Gastrointestinal Cancer. Clin Endosc 2020;53:142-66.
 Hashiguchi Y, Muro K, Saito Y, et al. Japanese Society for Cancer of the Colon and Rectum (JSCCR) guidelines 2019 for the treatment of colorectal cancer. Int J Clin Oncol 2020;25:1-42. 5. Kaltenbach T, Anderson JC, Burke CA, et al. Endoscopic Removal of Colorectal Lesions-Recommendations by the US Multi-Society Task Force on Colorectal Cancer. Gastrointest Endosc 2020;91:486-519.

6. Gangireddy VGR, Coleman T, Kanneganti P, et al. Polypectomy versus surgery in early colon cancer: size and location of colon cancer affect long-term survival. Int J Colorectal Dis 2018 33 1349 5

7. Mounzer R, Das A, Yen RD, et al. Endoscopic and surgical treatment of malignant colorectal polyps: a population-based comparative study. Gastrointest Endosc 2015;81:733-40 e2.

Curriculum Vitae



Yunho Jung Department of Internal Medicine, Soonchunhyang University College of Medicine, Cheonan, South Korea

Professional Career:

2009.5.-2010.3. Clinical fellowship in Soonchunhyang University Hospital (Division of Gastroenterology)

2010.7-2012.6 Research fellowship in Beth Israel Deaconess Medical Center, Harvard Medical School (Division of Gastroenterology)

2012.7. ~ Professor in Soonchunhyang University Cheonan Hospital (Gastroenterology)

Main Interests:

Colorectal disease

Endoscopic resection techniques in gastrointestinal tract Inflammatory bowel disease

Publications:

1. Jung Y, Kang SB, Yoon HJ, Cha JM. Improving the Tolerability and Safety of 1L Polyethylene Glycol Plus Low-dose Ascorbic Acid for Bowel Preparation in a Healthy Population: A Randomized, Multicenter Clinical Trial. Gastrointest Endosc. 2022 Aug:96(2):341-350

- 2. Jung Y. A new band ligation device to treat colonic diverticular
- Sung Y. A new band ngaton device to treat colonic diverticular bleeding. Clin Endosc. 2022 May;55(3):367-368
 Jung Y, Kim JW, Im JP, Cho YK, Lee TH, Jang JY. Safety of Gastrointestinal Endoscopy in Korea: A Nationwide Survey and Device the Population-Based Study. J Korean Med Sci. 2022 Jan 24;37(4): e24
- 4. Yoon HJ, Sohn DK, Jung Y, Lee HS, Koo HS, Kim KO, Shin JE, Kim HG, Chung IK, Hwangbo Y. Does precutting prior to endoscopic piecemeal resection of large colorectal neoplasias
- endoscopic piecemeal resection of large colorectal neoplasias reduce local recurrence? A KASID multicenter study. Surg Endosc. 2022 May;36(5):3433-3441.
 5. Jung Y, Masayuki Kato. Commentary on "Comparative Study of Narrow-Band Imaging and i-scan for Predicting the Histology of Intermediate-to-Large Colorectal Polyps: A Prospective, Randomized Pilot Study" Clin Endosc. 2021 Nov;54(6):781-782.
 6. Jung Y, Baik GH, Ko WJ, Ko BM, Kim SH, Jang JS, Jang JY, Lee WS, Cho YK, Lim SG, Moon HS, Yoo IK, Cho JY. Diode Laser-Can It Beplace the Electrical Current Used in Endosconic Submucosal
- It Replace the Electrical Current Used in Endoscopic Submucosal Dissection? (with Video). Clin Endosc. 2021 Jul;54(4):555-562. Jung Y, Moon JR, Jeon SR, Cha JM, Yang HY, Park S, Ahn Y,
- 7. Byeon JS, Kim HG. Usefulness of narrow-band imaging for the detection of remnant sessile-serrated adenoma (SSA) tissue after endoscopic resection: the KASID multicenter study. Surg Endosc. 2021 Sep;35(9):5217-5224

Adding bevacizumab to neoadiuvant chemoradiotherapy increases **JKT1-3** pathological complete remission and survival in patients with locally advanced rectal cancer

Jason Chia-Hsien Cheng, Yun Chiang, Jin-Tung Liang

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Purpose: This retrospective study investigated the impact of adding bevacizumab to neoadjuvant chemoradiotherapy (NCRT) in patients with locally advanced rectal cancer (LARC).

Methods: This retrospective study enrolled patients with LARC undergoing NCRT with or without bevacizumab followed by curative resection at National Taiwan University Hospital from 2009 to 2021. Locoregional recurrence was defined as recurrence within the irradiated field and distant metastasis as outside the irradiated field. Associations between clinical factors and pathological complete remission (pCR), overall survival (OS), locoregional recurrence-free survival (LRFS), and distant metastasis-free survival (DMFS) were analyzed using ANOVA and Cox proportional hazards model. Propensity score matching (PSM) analysis was used to evaluate the effects of adding bevacizumab. Programmed death-ligand 1 (PD-L1) immunostaining on rectal tumor biopsies taken at diagnosis was conducted to assess the correlation between PD-L1 expression level and treatment response.

Results: A total of 200 patients were enrolled. Of these, 39 patients (18/54 vs. 21/146 without bevacizumab, p=0.004) achieved pCR. Patients receiving bevacizumab had more T4 disease (p=0.005), low-lying rectal tumor (p=0.047), concurrent oxaliplatin use (p<0.001), but less frequent adjuvant chemotherapy (p=0.005). With a median follow-up of 71 months, 5-year OS, LRFS, and DMFS were 86%, 84%, and 79%, respectively. Factors associated with pCR in univariate analysis were clinical N0 (cN0), gross tumor volume ≤70 ml, and adding bevacizumab. In multivariate analyses, cN0 and adding bevacizumab remained significantly associated with pCR, and pCR was the only independent factor for OS (HR=0.32, p=0.004), DMFS (HR=0.29, p<0.0001), and LRFS (HR=0.32, p=0.002). In PSM cohort, adding bevacizumab was associated with better OS (p=0.034) and DMFS (p=0.045). A high PD-L1 expression, as determined by the VENTANA PD-L1 (SP263) assay, was associated with pCR rate only in patients receiving the additional bevacizumab.

Conclusions: Adding bevacizumab to NCRT in LARC patients contributes to improved survival by increasing pCR with tolerable toxicities. A correlation might exist between immunochemical PD-L1 expression level and the response to bevacizumab.

Curriculum Vitae



Jason Chia-Hsien Cheng Department of Oncology, National Taiwan University Hospital, Taiwan

Jason Chia-Hsien Cheng, M.D., M.S., Ph.D., FASTRO (成佳憲)

PRESENT POST

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EDUCATION Sep 1987 - Jun 1994: M.D. Degree in Medicine, National Yang-Ming University School of Medicine, Taipei, Taiwan

Sep 2000 - Jun 2002: Master degree in Health Care Organization Administration at School of Public Health, National Taiwan University, Taipei, Taiwan Sep 2002- Jan 2005: Ph.D. degree in the Institute of Electrical Engineering at National Taiwan University, Taipei, Taiwan

ACADEMIC APPOINTMENTS

Jul 1994 - Aug 1997: Resident Department of Radiation Oncology, Koo Foundation Sun Yat-Sen

Sep 1997 - Aug 1998: Fellow, Radiation Oncology Center, Mallinckrodt Institute of Radiology, Barnes-Jewish Hospital, Washington University Medical Center, St. Louis, U.S.A.

Sep 1998: Attending Physician, Department of Radiation Oncology, Koo Foundation Sun Yat-Sen

Sep 1998: Attending Physician, Department of Hadiation Uncology, Koo Foundation Sun Yat-Sen Cancer Center, Taipei, Taiwan May 2000: Research Award of the Year by the National Science Council, Taiwan Feb 2001: Instructor, Faculty of Medicine, National Yang-Ming University School of Medicine, Taipei, Taiwan

Taipei, Taiwan April 2001: Research Award of the Year by the National Science Council, Taiwan December 2001: Fellowship Award of the 3rd Takahashi Memorial International Workshop on 3 Dimensional Conformal Radiotherapy May 2002: Article Award of the Chinese Society for Therapeutic Radiology and Oncology December 2004: Fellowship Award and Junior Investigator Award of the 4th Takahashi Memorial International Workshop on 3 Dimensional Conformal Radiotherapy August 2005: Travel Grant Award of the American Society for Therapeutic Radiology and Oncology 2005 Translational Research in Radiation Oncology Symposium Debugar 2006: Arsiteat Performant Carting International Research in Radiation Oncology Symposium

February 2006: Assistant Professor, Graduate Institute of Clinical Medicine, National Taiwan University College of Medicine, Taipei, Taiwan

August 2007: Article Award of Professor Jue-Low Sung Academic Foundation, Taiwan August 2007: Junior Investigator Award of the National Science Council, Taiwan August 2009 - July 2013: Associate Professor, Graduate Institute of Oncology, National Taiwan

December 2011 – June 2012: Visiting Scholars Associate Professor, Department of Radiation

Oncology, Stanford University, California, USA August 2013 - Now: Professor, Graduate Institute of Oncology, National Taiwan University

Award Editorial Boards or Reviewers for Journals

Fellow Award of American Society for Radiation Oncology (FASTRO) (2018) Outstanding Research Award of the Ministry of Science and Technology, Taiwan (2018) International-US Scientific Award (team leader) News Briefing at 2014 ASTRO Annual Meeting

International-US Scientific Award (team leader) News Briefing at 2014 ASTRO Annual Meeting for the important research (2014) Junior Investigator (Wu Ta You) Award of the National Science Council, Taiwan (2007) Fellowship Award and Junior Investigator Award of the 4th Takahashi Memorial International Workshop on 3 Dimensional Conformal Radiotherapy (2004)

Fellowship Award of the 3rd Takahashi Memorial International Workshop on 3 Dimensional Conformal Radiotherapy (2001) Council Member of Asia-Pacific Primary Liver Expert (APPLE) from September 2019

Founder of Asian Liver Radiation Therapy (ALFT) Special Interest Group (SIG) from 2015 Principal Investigator of Radiation Therapy Oncology Group (RTOG), NRG Oncology at National Taiwan University Hospital (Affiliated Member) from July 2009 Committee member of NRG Oncology GI General Committee from January 2016

Panel Member of NCCN Asia Consensus Statement: Prostate Cancer from January 2010 Advisory Board of International Journal of Radiation Oncology, Biology, Physics Associate Senior Editor of International Journal of Radiation Oncology, Biology, Physics

Editorial Board of Journal of Clinical and Translational Hepatology Editorial Board of Biomedicines

Editorial Board of Journal of Radiation Oncology Editorial Board of Therapeutic Radiology and Oncology Reviewers of International Journal of Radiation Oncology, Biology, Physics, International Journal of Cancer, Scientific Reports, Radiotherapy and Oncology, Marrican Journal of Clinical Oncology, Liver Cancer, Journal of Gastroenterology and Hepatology, Liver International, Hepatology International, Cancers, BMC Cancer, Radiation Oncology, Medical Dosimetry, Journal of Biomedical Science, Journal of Medical and Biological Engineering, Breast Cancer Research and Ireatment, Oncology, Journal of X-Ray Science and Technology, PLoS One, Journal of the Formosan Medical Association, Journal of Chinese Medical Association, etc.

Colonoscopy for colorectal cancer screening and management of JKT1-RS1 early colorectal cancer

Masau Sekiguchi

Cancer Screening Center/Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan

Screening, diagnosis, and treatment of precancerous lesions and early colorectal cancer (CRC) are essential to lower the mortality of CRC, and colonoscopy plays an important role. Population-based CRC screening using a fecal immunochemical test followed by colonoscopy has been implemented since 1992 in Japan; however, CRC remains a leading cause of cancer-related deaths. Considering the potential effectiveness and cost-effectiveness of screening colonoscopy, discussions about more efficient use of colonoscopy in CRC screening are warranted (Sekiguchi M, et al. Jpn J Clin Oncol. 2016;46:116-125). Risk-stratification of the screening population and the possibility of using computer-aided detection systems for screening colonoscopy also warrant discussion (Sekiguchi M, et al. J Gastroenterol. 2018;53:1109-1119/ Sekiguchi M, et al. Dig Endosc. 2023;10.1111 [published online ahead of print]). Regarding the treatment of early CRC, and Ta endoscopic submucosal dissection (ESD) has become the standard treatment method for large cTis and T1a cancers. Compared to piecemeal endoscopic mucosal resection, ESD is more acceptable for large lesions in terms of effectiveness and cost-effectiveness (Sekiguchi M, et al. Dig Endosc. 2022;34:553-568). Despite the remarkable development of endoscopic diagnosis, pT1b cancers occasionally occur after endoscopic resection. The current standard management method for pT1b cancer is colectomy with lymphadenectomy; however, whether surgical treatment should be performed in patients at risk for operative complications, such as elderly patients, is difficult to determine. The optimal management of such patients requires discussion among a multidisciplinary team (MDT). Data for prediction of the risk of lymph node metastasis from T1 CRC is useful for this decision (Kajiwara Y, et al. Gastrointest Endosc. 2023;97:1119-1128). A single-arm confirmatory trial of adjuvant chemoradiation for patients with high-risk rectal submucosal invasive cancer (JCOG1612) is ongoing to establish less invasive management. A new clinical trial for pT1b colon cancer is also warranted. A single-arm phase III confirmatory trial on indications of ESD for elderly patients with early gastric cancer (JCOG1902) is being conducted, and it may also be meaningful to examine the potential for expanding the indications of colorectal ESD for elderly patients (Sekiguchi M, et al. Jpn J Clin Oncol. 2022;52:425-432). The difficulty of managing rectal neuroendocrine tumors following endoscopic resection is another hot topic, and an MDT approach and further investigations are key to solve this issue (Sekiguchi M, et al. J Gastroenterol. 2022;57:547-558).

Curriculum Vitae



Masau Sekiguchi

Cancer Screening Center/Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan

Affiliation:

- 1. Cancer Screening Center, National Cancer Center Hospital, Tokyo, Japan
- 2. Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan
- 3. Division of Screening Technology, National Cancer Center Institute for Cancer Control, Tokyo, Japan

Educational Background: 2014 April - 2017 March

Ph.D., Course of Advanced Clinical Research of Cancer, Juntendo University Graduate School of Medicine (Partner graduate school of National Cancer Center) 2000 April - 2006 March

M.D., Faculty of Medicine, The University of Tokyo

Professional Career:

2006 April - 2009 March

Department of Internal Medicine, Mitsui Memorial Hospital 2009 April - 2011 March

Department of Gastroenterology, NTT Medical Center Tokyo

2011 April - 2014 March Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan (Resident) 2014 April - 2015 March

Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan (Chief resident) 2015 April - Present

Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan (Staff doctor) Cancer Screening Center, National Cancer Center Hospital, Tokyo, Japan (Staff doctor) Division of Screening Technology, National Cancer Center Institute for Cancer Control. Tokyo, Japan (Staff researcher)

2021 February – 2022 January Department of Clinical Sciences, Danderyd Hospital, Karolinska Institutet, Stockholm, Sweden (Specialized doctor)

- Recent major publications: 1. Sekiguchi M, Igarashi A, Toyoshima N, et al. Cost-effectiveness analysis of computer-
- A. Bergdohl M, Igarasili A, Toyosilina N, et al. Costenectiveness analysis of computer-aided detection systems for colonoscopy in Japan [published online ahead of print, 2023 Feb 8]. Dig Endosc. 2023;10.
 Sekiguchi M, Westerberg M, Ekbom A, et al. Endoscopist Characteristics and Polyp Detection in Colonoscopy: Cross-Sectional Analyses of Screening of Swedish Colons. Gastroenterology. 2023; 164: 293-295.
- Sekiguchi M, Westerberg M, Ekbom A, et al. Detection rates of colorectal neoplasia during colonoscopies and their associated factors in the SCREESCO study. J Gastroenterol Hepatol. 2022; 37: 2120-2130.
- Sekiguchi M, Hotta K, Takeuchi Y, et al. Characteristics of colorectal neuroendocrine tumors in patients prospectively enrolled in a Japanese multicenter study: a first report from the C-NET STUDY. J Gastroenterol. 2022; 57: 547-558.
- 5. Sekiguchi M, Igarashi A, Mizuguchi Y, et al. Cost-effectiveness analysis of endoscopic resection for colorectal laterally spreading tumors: Endoscopic submucosal dissection
- versus piecemeal endoscopic mucosal resection. Dig Endosc. 2022; 34: 553-568. 6. Sekiguchi M, Kakugawa Y, Ikematsu H, et al. Risk Stratification Score Improves Sensitivity for Advanced Colorectal Neoplasia in Colorectal Cancer Screening: The
- Oshima Study Workgroup. Clin Transl Gastroenterol. 2021; 12: e00319. 7. Sekiguchi M, Kakugawa Y, Takamaru H, e al. Risk of metachronous neoplastic lesions during post-polypectomy surveillance in individuals with advanced colorectal neoplasia at initial screening colonoscopy. J Gastroenterol Hepatol. 2021; 36: 2230-2238.

Recent advances in multidisciplinary treatment for colorectal cancer JKT1-RS2

Hyun Seok Lee

Division of Gastroenterology, Department of Internal Medicine, School of Medicine, Kyungpook National University, Kyungpook National University Chilgok Hospital, Korea

Colorectal cancer (CRC) is the third most common cancer type and the second cause of cancer-related mortality in the analysis of global cancer statistics. Stage IV colorectal cancer (CRC) has heterogeneous characteristics in tumor extent and biology. The overall survival of patients with metastatic CRC has improved with the development of multimodal treatments and new chemotherapeutic drugs. Resection of metastatic CRC is recommended when the metastatic lesions are technically present for complete removal. Before determining the resection of metastatic sites, the resectability and usefulness of locoregional surgical treatment for metastatic CRC

should be fully assessed with consideration of the radiologic evaluation and the patient's condition. In addition, clear surgical margins and technical assurance for complete resection of metastatic sites should be ensured before the surgery. Resection of metastatic CRC is performed for liver, lung, or peritoneal metastases.

Synchronous liver and primary tumor resection can be considered in patients with adequate conditions. Treatment strategies for patients with synchronous liver and CRC should be considered in conjunction with a thorough evaluation of metastatic lesions and primary tumor stages.

Solitary pulmonary metastatic lesions can be considered for surgical resection using video-assisted thoracic surgery (VATS) or open thoracotomy metastasectomy. Currently, VATS is commonly used to treat solitary pulmonary metastasis. Local ablation with radiotherapy can be used to treat lung metastasis. With the development of modern systemic chemotherapy, the treatment of pulmonary metastasis requires multidisciplinary approaches combined with surgical resection and radiotherapy and the use of accurate diagnostic imaging tools.

In the treatment of patients with CRC with peritoneal metastasis, cytoreductive surgery with hyperthermic intraperitoneal chemotherapy can be considered. Complete surgical resections and the development of adequate chemotherapeutic agents for use against peritoneal metastatic lesions are required to prolong survival and increase treatment efficacy in patients with CRC with peritoneal metastases. Surgical treatments should be performed in patients with symptomatic primary tumors with unresectable metastasis. However, primary

tumor resection in patients with asymptomatic CRC with synchronous, unresectable metastases did not show overall survival benefits in recent studies. Therefore, the treatment of metastatic CRC is challenging due to the variable tumor extent and heterogenous characteristics. The location and extent of metastatic lesions should be considered to treat patients with stage IV CRC. Adequate surgical treatments at the appropriate time can improve survival and prevent tumor-related complications. Tailored surgical treatments and multidisciplinary approaches may improve survival and the quality of life in patients with metastatic CRC.

Curriculum Vitae



Hvun Seok Lee

Division of Gastroenterology, Department of Internal Medicine, School of Medicine, Kyungpook National University, Kyungpook National University Chilgok Hospital, Korea

PRESENT POSITION Associate professor Division of Gastroenterology Department of Internal Medicine, School of Medicine, Kyungpook National University

Kyungpook National University Chilgok Hospital 807, Hoguk-ro, Buk-gu, Daegu 41404, South Koréa

Tel: 82-53-200-3084 Fax: 82-53-323-3089 E mail : Ihsworld@nate.com https://orcid.org/0000-0001-9288-0321 Home Page: http://med.knu.ac.kr/ http://www.knuch.kr/ EDUCATION

2016 Ph.D., Medical College of Yeungnam University, Daegu, Korea 2008: Master, School of Medicine, Kyungpook National University, Daegu,

2002: M.D., School of Medicine, Kyungpook National University, Daegu, Korea POSTGRADUATE TRAINING

- Associate professor of Division of Gastroenterology and Hepatology in Kyungpook National University April 2018 - present: Hospital Feb 2019 - Feb 2020: Research Scholar, Inflammatory Bowel Disease Center
- of Excellence, Digestive Disease Institute, Virginia Mason Medical Center, Seattle, Washington March 2013 March 2018 : AssistantprofessorofDivisionofGastroenterology
- March 2013 March 2018 : AssistantprofessorofDivisionofdastroenterology and Hepatology in Kyungpook National University Hospital
 Feb. 2010 March 2013: Fellowship of Gastroenterology & Hepatology in Kyungpook National University Hospital
 March 2006 Feb. 2010: Residentship of Internal Medicine in Kyungpook National University Hospital
 March 2002 Feb. 2003: Internship in Kyungpook National University Hospital, Daegu, Korea

AWARD

2022, International Digestive Endoscopy Network, Young Investigator Award 2021, International Digestive Endoscopy Network, Distinguished Poster Award

2020, International Digestive Endoscopy Network, Distinguished Poster Award 2018, International Digestive Endoscopy Network, Distinguished Poster Presentation Award

2017, Korea Digestive Disease Week, Best Poster Award 2016, Congress of the Korean Society of Gastrointestinal Endoscopy, Best Oral Presentation Abstract Award

2016, Asian Pacific Digestive Week, Travel Award 2015, Congress of the Korean Society of Gastrointestinal Endoscopy, Best **Oral Presentation Abstract Award**

RESEARCH INTERESTS Inflammatory Bowel Disease

Cancer (Colorectal Cancer, Gastric Cancer, Esophageal Cancer), Cancer Biomarker

Colorectal neoplasia Diagnostic and Therapeutic Gastrointestinal Endoscopy Capsule Endoscopy

- SELECTED PUBLICATION (recent 20)
 1: Joo HJ, Lee HS, Jang BI, Kim DB, Kim JH, Park JJ, Kim HG, Baek IH, Lee J, Kim B. Sex-specific differences in colorectal cancer: A multicenter retrospective cohort study. Cancer Rep (Hoboken). 2023 Jun 22:e1845. doi: 10.1002/cnr2.1845. Epub ahead of print. PMID: 37348877.
 2: Lee HS, Nam JH, Oh DJ, Ahn HJ, Lim YJ. Association between eupatilin and reduction in small bowel bleeding in aspirin users and aspirin plus acid suppressant users. Korean J Intern Med. 2023 May 19. PMID: 37198878; PMCID: PMC10338255.
 2: Lee LS, Nam JH, Sen JW, Kim ES, Kim SK, Jung MK, Hen JL ee HS, Lee JS.
- PMC10338255.
 3: Lee J, Lee YJ, Seo JW, Kim ES, Kim SK, Jung MK, Heo J, Lee HS, Lee JS, Jang BI, Kim KO, Cho KB, Kim EY, Kim DJ, Chung YJ: Daegu-Gyeongbuk Gastrointestinal Study Group. Incidence of colonoscopy-related perforation and risk factors for poor outcomes: 3-year results from a prospective, multicenter registry (with videos). Surg Endosc. 2023 Aug;37(8):5865-5874. doi: 10.1007/s00464-023-10046-5. Epub 2023 Apr 17. PMID:

- Choi CW, Lee SJ, Hong SN, Kim ER, Chang DK, Kim YH, Lim YJ, Shim KN, Lee HS. Small Bowel Capsule Endoscopy within 6 Hours Following Bowel Visibility. Diagnostics (Basel). 2023 Jan 271:13(3):469. doi: 10.3390/ diagnostics13030469. PMID: 36766574; PMCID: PMC3914394.
 Lee JM, Lee KM, Kang HS, Koo JS, Lee HS, Jeong SH, Kim JH, Kim DB. Oral Sulfate Solution Is as Effective as Polyethylene Glycol with Ascorbic Acid in a Split Method for Bowel Preparation in Patients with Inactive Ulcerative Colitis: A Randomized. Multicenter, and Single-Bilnd Clinical Trial. Gut Liver. 2023 Jul 15:17(4):591-599. doi: 10.5009/snl220202. Epub 2023 Jan 2. PMID: 36588527; PMCID: PMC10352068.
 Kim KO, Kim EY, Lee YJ, Lee HS, Kim ES, Chung YJ, Jang BI, Kim SK, Yang CH. Efficacy, safety and tolerability of oral sulphate tablet for bowel preparation in patients with inflammatory bowel disease: A multicentre randomized controlled study. J Crohns Colits. 2022 Nov 23:16(11):1706-1713. doi: 10.1093/ecco-jcc/jiac080. PMID: 35689818.
 Nam SY, Jeon SW. Lee HS, Lim HJ, Lee DW, Yoo SJ. Demographic and Clinical Factors Associated With Anti-SARS-CoV-2 Antibody Levels After 2 BNT 162b2 mRNA Vaccine Doses. JAMA Netw Open. 2022 May 25(5):e2212996. doi: 10.1001/jamanetworkopen.2022.12996. PMID: 35687345; PMCID: PMC9121186.
 Yasuda T, Lee HS, Nam SY, Katoh H, Ishibashi Y, Yamagata Murayama S, Matsui H, Masuda H, Rimbara E, Sakurazwa N, Suzuki H, Yoshida H, Setor Y, Ishikawa S, Jeon SW. Nakamura M, Nomura S. Non-Helicobacter pytori Helicobacter (NHPH) positive gastric cancer. Sci Rep. 2022 May 21:12(1):4811. doi: 10.1038/s41598-022-089622.y. PMID: 35314746; 9: Yu J, Park SJ, Kim HW, Lim YJ, Park J, Cha JM, Ye BD, Kim TO, Kim HS, Lee HS, Jung SY, Kim Y, Choi CH. Effectiveness and Safety of Golimumab in Patients with Ulcerative Colitis: A Multicenter. Prospetive. Postmarketing Surveillance Study. Gut Liver. 2022 Sep 15:16(5):764-774. doi: 10.5096/ yen210:335. Epub 2021 Doc 27. PMID: 34959224; PMID:

 - TFPI2 genes in colonic mucosa during colorectal cancer development. Cancer Biomark. 2021;32(2):231-236. doi: 10.3233/CBM-203259. PMID: 34092617
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 15: Lee JS, Jeon SW, Lee HS, Kwon YH, Nam SY, Bae HI, Seo AN. Rebamipide for the Improvement of Gastric Atrophy and Intestinal Metaplasia: A Prospective, Randomized, Pilot Study. Dig Dis Sci. 2022 Jun;67(6):2395-2402. doi: 10.1007/s10620-021-07038-7. Epub 2021 May 30. PMID: 34052947.
- 2402. doi: 10.1007/s10620-021-07038-7. Epub 2021 May 30. PMID: 34052947.
 16: Lee HS, Chiorean MV, Boden E, Lord J, Irani S, Kozarek R, Larsen M, Ross A. Usefulness of Fluoroscopy for Endoscopic Balloon Dilation of Crohn's Disease-Related Strictures. Dig Dis Sci. 2022 Apr;67(4):1295-1302. doi: 10.1007/s10620-021-06935-1. Epub 2021 Mar 19. PMID: 33740171.
 17: Chang JY, Moon CM, Shim KN, Cheung DY, Lee HS, Lim YJ, Jeon SR, Park SJ, Kim KO, Song HJ, Jang HJ, Kim JH. Positive Fecal Occult Blood Test is a Predictive Factor for Gastrointestinal Bleeding after Capsule Endoscopy in Patients with Unexplained Iron Deficiency Anemia: A Korean Multicenter CAPENTRY Study. Clin Endosc. 2020 Nov;53(6):719-726. doi: 10.5946/ce.2019.149. Epub 2020 Nov 6. PMID: 33153246; PMCID: PMC7719424.
 18: Lee HS, Nagra N, La Selva D, Kozarek RA, Ross A, Weigel W, Beecher R, Chiorean M, Gluck M, Boden E, Venu N, Krishnamoorthi R, Larsen M, Lin OS. Nurse-Administered Propofol Continuous Infusion Sedation for Gastrointestinal Endoscopy in Patients Who Are Difficult to Sedate. Clin Gastroenterol Hepatol. 2021 Jan;19(1):180-188. doi: 10.1016/j. cgh.2020.09.018. Epub 2020 Sep 12. PMID: 32931961.
 19: Lee JS, Lee HS, Kim ES, Jung MK, Jung JT, Kim HG, Lee DW, Kim DJ, Lee YJ, Yang CH; Daegu-Gyeongbuk Gastrointestinal Study Group (DGSG). Comparison of different types of covered self-expandable metal stents for malignant colorectal obstruction. Surg Endosc. 2021 Aug;35(8):4124-4133. doi: 10.1017/s00464-020-07869-x. Epub 2020 Aug 13. PMID: 32789723.
 20: Lee HS, Lim YJ, Jung JH, Nam JH, Park J, Kang SH, Kim KB, Chun HJ. Medata State State State States States and the patients with an epuiption Rest States States and States and States States and States States and States States and States and States States and States and States States and Stat

- ee HS, Lim YJ, Jung JH, Nam JH, Park J, Kang SH, Kim KB, Chun HJ. Magnetic Resonance Enterography and Capsule Endoscopy in Patients Undergoing Patency Capsule for the Evaluation of Small Bowel Crohn's Disease: A Korean Clinical Experience. Gastroenterol Res Pract. 2020 Apr 4:2020:8129525. doi: 10.1155/2020/8129525. PMID: 32328099; DMCD: DMC7160711. PMCID: PMC7160711.

JKT1-RS3 Role of endoscopic muscular dissection for rectal cancer with clinical complete response after concurrent chemoradiotherapy

Chao-Wen Hsu¹, Chu-Kuang Chou², Jen-Hao Yeh³

¹⁾Division of Colorectal Surgery, Kaohsiung Veterans General Hospital, Taiwan, ²⁾Division of Gastroenterology and Hepatology, Department of Internal Medicine, Ditmanson Medical Foundation Chia-Yi Christian Hospital, Chiayi, Taiwan, ³⁾Department of Internal Medicine, E-Da Hospital, Kaohsiung, Taiwan

Background

For clinical T2N+/- or T3N+/- rectal cancer, concurrent chemoradiotherapy (CCRT) followed by radical low anterior resection (LAR) +/- diversion stoma is the standard treatment modality. The clinical complete response (cCR) rate after CCRT can achieve 10-20% based on the modern total neoadjuvant therapy (TNT) and neoadjuvant chemotherapy. Endoscopic muscular dissection (EMD) for cCR rectal cancer after CCRT, may play a diagnostic role to decide watch & wait (WW) or radical LAR in carefully selected patients. We retrospectively evaluated the technical feasibility and the short-term outcome of EMD for rectal cancer with cCR after CCRT.

Methods

A retrospective chart review of cases of EMD for rectal cancer with cCR after CCRT from Jan 2022 to Aug 2023 at our institution was performed. Clinical factors and imaging, procedural, and pathology results were collected and analyzed.

Results

Eight EMD for rectal cancer with cCR were performed. Before CCRT, 6 of lesions were initially clinically staged as T2-3N0 and 2 were T3N1. The en-bloc resection rates and R0 resection were 100% without complications. Six lesions had pathologically complete response (pCR), 1 lesion had morphologically changed to adenoma and 1 lesion had minimal residual ypT1. No patients received subsequent radical LAR in this cohort. Conclusions

EMD for rectal cancer with cCR after CCRT is technically feasible with low complication rates. There may be a diagnostic role in EMR in assessing pathologic response after CCRT and a potentially therapeutic role to avoid radical LAR in carefully selected patients.

Curriculum Vitae



Chao-Wen Hsu

Division of Colorectal Surgery, Kaohsiung Veterans General Hospital, Taiwan

Chao-Wen Hsu, M.D. Chief of Division of Colorectal Surgery, Kaohsiung Veterans General Hospital, Taiwan Associate professor, National Yang-Ming University, Taiwan Email: ss851124@gmail.com

EXPERIENCE

- 2022 Director of SOCIETY OF COLON AND RECTAL SURGEONS, Taiwan.
- 2023 Fellowship in NTT medical center, Tokyo
- 2014 Fellowship in University of Washington, Seattle, USA
- 2012 Fellowship in National cancer center, Tokyo

Acedemic qualifications

1996 - 2003 School of medicine, National Yang-Ming University, Taiwan

Certificate Board of Surgery, Taiwan Board of Colorectal surgery, Taiwan

Expertise

Advanced Endoscopic treatment Endoscopic submucosal dissection Minimal invasive colorectal surgery

Invited speaker

- 1. Invited speaker in international colorectal forum 2015, Taichung, Taiwan
- 2. Invited speaker in APDW 2016, Kobe, Japan
- 3. Invited speaker in international colorectal forum 2019, Taiwan

- 4. Invited speaker in international colorectal forum 2020, Taiwan
- 5. Invited speaker in international colorectal forum 2021, Taiwan
- 6. Invited speaker in APFCP 2021, Taiwan
- 7. Invited speaker in international colorectal forum 2022, Taiwan
- 8. Invited speaker in APFCP 2023, Taiwan

Publication

- 1. Endoscope rotating technique is useful for difficult colorectal endoscopic submucosal dissection. Hsu CW, Wu CC, Lee MH, Wang JH, Chen YH, Chang MC Surg Endosc. 2020;34(2):1006-1011
- Snare Tip Is an Alternative Tool for Colorectal Endoscopic Submucosal Dissection.Wu CC, Chang MC, Lee MH, Hsu CH, Hsu CW. Dis Colon Rectum. 2021 Feb 1;64(2):241-247.
- A novel training model to simulate thread traction in colorectal endoscopic submucosal dissection - a video vignette. Huang SF, Hsu CW. Colorectal Dis. 2021 Apr;23(4):1012.
- Step-by-step demonstration of tunnel creation endoscopic submucosal dissection for a lateral spreading anal canal circumferential tumour - a video vignette.Wen CY, Hsu CW. Colorectal Dis. 2021 Apr;23(4):1013-1014.
- Rectal gastrointestinal stromal tumour removed by hybrid endoscopic submucosal dissection-a video vignette. Chen WC, Yu HC, Tsay FW, Li YD, Kao SS, Hsu CW. Colorectal Dis. 2021 Sep 24. Epub ahead of print.
- Rubber band-clip traction for endoscopic submucosal dissection involving the appendiceal orifice - a video vignette. Colorectal Dis. 2021 Oct 17 Chang MC, Tseng CL, Hsu CH, Chou CK, Hsu CW. Epub ahead of print.

JKT2 14:00-16:15 Kairaku 3 [Room 9]

Upper GI Multimodal treatments for esophagogastric junction cancer

Chair (J):Hiroya Takeuchi Hamamatsu University School of Medicine, JapanChair (K):Jae Gyu Kim Department of Internal Medicine, Chung-Ang University College of Medicine, KoreaChair (T):Chi-Yang Chang Fu Jen Catholic University Hospital, TaiwanDiscusser (J):Takaki Yoshikawa National Cancer Center Hospital, Department of Gastric Surgery, JapanDiscusser (K):Hwoon-Yong Jung Department of Internal Medicine, University of Ulsan College of Medicine, KoreaDiscusser (T):Ching-Tai Lee E-DA Hospital, TaiwanSpeaker (J):JKT2-1 Neoadjuvant chemotherapy and conversion surgery for EGJ adenocarcinoma	1
Department of Internal Medicine, Chung-Ang University College of Medicine, Korea Chair (T): Chi-Yang Chang Fu Jen Catholic University Hospital, Taiwan Discusser (J): Takaki Yoshikawa National Cancer Center Hospital, Department of Gastric Surgery, Japan Discusser (K): Hwoon-Yong Jung Department of Internal Medicine, University of Ulsan College of Medicine, Korea Discusser (T): Ching-Tai Lee E-DA Hospital, Taiwan Speaker (J): JKT2-1 Neoadjuvant chemotherapy and conversion surgery for EGJ	
Fu Jen Catholic University Hospital, Taiwan Discusser (J): Takaki Yoshikawa National Cancer Center Hospital, Department of Gastric Surgery, Japan Discusser (K): Hwoon-Yong Jung Department of Internal Medicine, University of Ulsan College of Medicine, Korea Discusser (T): Ching-Tai Lee E-DA Hospital, Taiwan Speaker (J): JKT2-1 Neoadjuvant chemotherapy and conversion surgery for EGJ	and and
National Cancer Center Hospital, Department of Gastric Surgery, Japan Discusser (K): Hwoon-Yong Jung Department of Internal Medicine, University of Ulsan College of Medicine, Korea Discusser (T): Ching-Tai Lee E-DA Hospital, Taiwan Speaker (J): JKT2-1 Neoadjuvant chemotherapy and conversion surgery for EGJ	Series -
Department of Internal Medicine, University of Ulsan College of Medicine, Korea Discusser (T): Ching-Tai Lee E-DA Hospital, Taiwan Speaker (J): JKT2-1 Neoadjuvant chemotherapy and conversion surgery for EGJ	
E-DA Hospital, Taiwan Speaker (J): JKT2-1 Neoadjuvant chemotherapy and conversion surgery for EGJ	
Neoadjuvant chemotherapy and conversion surgery for EGJ	
Yu Imamura Dept. of Esophageal Surgery, The Cancer Institute Hospital of JFCR, Japan	
Speaker (K): JKT2-2 Minimally invasive surgery for gastroesophageal junction adenocarcinoma Jin-Jo Kim Department of surgery, College of Medicine, The Catholic University of Korea, Korea	3
Speaker (T): JKT2-3 Exploring the feasibility of endoscopic management for T1b esophageal cancer Chu-Kuang Chou Division of Gastroenterology and Hepatology, Department of Internal Medicine, Ditmanson Medical Foundation Chia-Yi Christian Hospital, Chiayi, Taiwan	
Rising Star Program (J): JKT2-RS1 Approach and therapeutic value index for Siewert type 2 esophagogastric junction adenocarcinoma Eisuke Booka Department of Surgery, Hamamatsu University School of Medicine, Shizuoka, Japan	;
Rising Star Program (K): JKT2-RS2 Endoscopic treatment for esophagogastric junction carcinoma Yang Won Min Department of Internal Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, South Korea	
Rising Star Program (T): JKT2-RS3 Recent advances in perioperative treatment for esophagogastric junction cancer KuoHsing Chen Department of Medical Oncology, National Taiwan University Cancer Center, Taipei, Taiwan	
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Neoadjuvant chemotherapy and conversion surgery for EGJ JKT2-1 adenocarcinoma

Yu Imamura¹, Keisho Chin², Masayuki Watanabe¹

¹⁾Dept. of Esophageal Surgery, The Cancer Institute Hospital of JFCR, Japan, ²⁾Dept. of Gastroenterology, The Cancer Institute Hospital of JFCR

Background and Aim: Adenocarcinoma of the esophagogastric junction (EGJ) is an aggressive tumor, and curative resection (R0) rate is not sufficient. It has been unclear whether conversion surgery is beneficial in the patient with initially unresectable tumor. Here, focusing on Siewert type I-II cases who needed thoracic approach, and we report 1) a multicenter phase II study of SOX (S-1+ oxaliplatin) therapy as a NAC, and 2) the clinical indication of conversion surgery.

Methods: 1) cT3/4a and/or cN+ cases with 3cm or longer esophageal invasion was eligible. The primary endpoint was R0 resection rate, and the planned sample size was 50 cases based on an expected R0 resection rate of 85% (at the threshold of 70%), with a one-sided alpha of 0.1 and power of 80%. 2) Among 438 cases with Siewert type I /II tumors who were treated at our institution, 95 patients with initially unresectable tumors were examined.

Results: 1) Fifty patients were enrolled between June 2016 and April 2020. The overall response rate (CR/PR was 0/9, respectively) was 18% (95%CI, 8.6-31.4%). SOX-related grade 3-4 adverse events (AEs) occurred in 6 cases. R0 resection rate was 86.0% (95%CI, 73.3-94.2%). Histopathological examination revealed that grades 3/2/1b/1a/0/not-evaluated was observed in 9/6/8/21/4/2 (due to R2 resection), and pathological complete response rate was 18% (95%Cl, 8.6-31.4%). 2) Conversion surgery was successfully performed by transthoracic (N=12) or transhiatal approach (N=5), and remaining 60 cases continued chemotherapy (unresected cases). In conversion cases with thoracic approach (N=12), half of those were treated by chemotherapeutic regimen including Trastuzumab (N=5) or Nivolumab (N=1). Compared to the unresected cases, trastuzumab was frequently administered in conversion cases (conversion 50%, unresected 27%), and conversion cases experienced favorable outcomes [3-yr overall survival (OS) after initial treatment; conversion 81.5% vs. unresected 12.7%, P=0.0002].

Conclusions: Neoadjuvant SOX met the primary endpoint of R0 resection rate 86% (>70%), with acceptable adverse events. Conversion surgery conferred prolonged overall survival in the patient with initially unresectable EGJ adenocarcinoma. HER2 overexpression may be a useful biomarker for conversion surgery.

Curriculum Vitae



Science, Graduate School of Medical Sciences, Kyushu

JKT2-2 Minimally invasive surgery for gastroesophageal junction adenocarcinoma

Jin-Jo Kim

Department of surgery, College of Medicine, The Catholic University of Korea, Korea

Gastroesophageal junctional cancer (GEJc) is defined as adenocarcinoma with an epicenter within 5 cm of the GEJ and extending into the esophagus. The incidence of GEJc has increased substantially in the past few decades, even in Eastern countries. GEJc is usually classified into 3 categories according to the Siewert system, which is based on the location of the epicenter of the tumor. Among these, Siewert type II tumors, located 1 cm above to 2 cm below the GEJ, represent true carcinoma of the GEJ.

According to the recent prospective trial in Japan, lower mediastinal lymph node dissection (LND) should be performed when the length of esophageal invasion is 2cm or more. If the length is more than 4cm middle and upper mediastinal LND should be performed, together. In the former case, Japanese researchers recommend to perform number 110 lymph node (LN) only. However, the anatomical landmark among the lower mediastinal LNs (No. 110, 111 and 112) is vague and it is difficult to differentiate one from the others. In my opinion, it would be easier and better to dissect the lower mediastinal LN as a whole. Moreover, systematic lower mediastinal LND would offer a clearer surgical view in later anastomosis in the lower mediastinum.

Recent laparoscopic transhiatal approach has some advantages over the open counterpart. Surgical view and instrumentation are much better in laparoscopic approach. I think this approach will have a promising future in this field.

In order to perform laparoscopic transhital LND, mobilization of Lt. lateral section of liver is essential to obtain a good surgical view. After full mobilization of Lt. lateral section, it is folded toward right side through a hole made in falciform ligament. An anterior midline incision is made on the diaphragm and the hiatal opening is widely opened. Lower mediastinal LND is performed through this hole. First, supradiaphragmatic LN (No. 111) is dissected and bilateral pulmonary ligaments (No. 112pul) and anterior side of the descending aorta (No. 112aoA) are dissected to the level of inferior pulmonary vein. After lower miediastinal LND, the esophagus is cut at the level of 2cm above the upper border of the tumor and the proximal stomach and upper abdominal LNs including No. 7, 8a, 9, 11p, 19 and 20 are resected. And then esophagogastrostomy using double flap technique is proceeded in the lower mediastinum.

Curriculum Vitae

		Jin-Jo Kim Department of surgery, College of N	ledicine, Tl	ne Catholic University of Korea, Korea
Se	3	Name: Jin-Jo Kim, M.D.	2007 - 2008	Visiting Professor
2		Present Academic Appointments: Professor,	2008	University of Virginia Visiting professor Fujita Health University
		Department of Surgery, College of Medicine, The Catholic University of Korea.	2011 - 2015	Associate Professor
	<u> </u>	Education:	0010	Department of Surgery, Incheon St. Mary's Hospital, The Catholic University of Korea, Incheon, Korea.
M.D. Degree Korea.(1994)	College of	Medicine, The Catholic University of Korea, Seoul,	2016 - preser	Department of Surgery, Incheon St. Mary's Hospital,
Surgical Trainir Internship	Our Lady College o	of Mercy Hospital, f Medicine, The Catholic University of Korea,		
Residency		15 nt of Surgery, College of Medicine plic University of Korea, Seoul, Korea.	Chairman, pas Director, Edit Surgery Director, Ethic	gical Oncology Forum t (2011-2016), Korean Antireflux Surgery Study Group orial Committee, The Korean Society of Gastrointestinal al Committee, The Korean Society for Metabolic and Bariatric
Professional Experience: Steering Committee, Korean Laparoscopic Gasstrointestinal Surgery Study		nittee, Korean Laparoscopic Gasstrointestinal Surgery Study		
2002 - 2003	Departme	o in Surgery nt of Surgery, Our Lady of Mercy Hospital,		Korean Medical Association
2003 - 2005	nstructor Departme	plic University of Korea, Incheon, Korea. in Surgery nt of Surgery, Our Lady of Mercy Hospital, plic University of Korea, Incheon, Korea.	Member, The I Member, The I	Korean Surgical Society Korean Gastric Cancer Association Korean Society of Endoscopic and Laparoscopic Surgeons Korean Society of Neurogastroenterology and Motility
2005 - 2010	Assistant Departme		Member, Intern Disorders	national Federation for the Surgery of Obesity and Metabolic

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JKT2-3 Exploring the feasibility of endoscopic management for T1b esophageal cancer

Chu-Kuang Chou

Division of Gastroenterology and Hepatology, Department of Internal Medicine, Ditmanson Medical Foundation Chia-Yi Christian Hospital, Chiayi, Taiwan

Based on data from the Taiwan cancer registry, the overall crude incidence rate of esophageal cancer in 2020 was reported to be 12.19, and this rate has remained stable over the past decade in Taiwan. The majority of esophageal cancer cases are of squamous origin, while adenocarcinoma from the esophagogastric junction (EGJ) constitutes 4.21-4.79% of cases. Among all esophageal cancer cases, 9.24% were classified as clinical stage 1, and 14.49% were categorized as pathologic stage 1.

The advancement and acceptance of endoscopic resection have led to a shift in the management of early EGJ cancers, moving away from surgery or concurrent chemoradiation therapy (CCRT) and towards endoscopic treatment. En-bloc resection using endoscopic submucosal dissection (ESD) has become a crucial approach for EGJ lesions with suspected superficial invasive cancers.

The management of squamous cell carcinoma near the EGJ in Taiwan closely mirrors that of squamous cell carcinoma at other sites in the esophagus.

As for adenocarcinoma, the en bloc resection rate for ESD in esophageal adenocarcinoma is higher than that of endoscopic mucosal resection (EMR). ESD is considered the preferred treatment for elevated lesions and those with potential invasive cancers, allowing endoscopists to obtain a definitive diagnosis. Nonetheless, managing submucosal invasion cancers remains challenging. The Japan Gastroenterological Endoscopy Society 2020 guideline for Endoscopic submucosal dissection/endoscopic mucosal resection in esophageal cancer suggests that pT1b esophageal adenocarcinoma should be considered for surgical resection. The European Society of Gastrointestinal Endoscopy 2022 guideline suggests that Barrett's esophagus-associated superficial cancers with superficial submucosal invasion, showing well to moderate differentiation and lacking lymphovascular invasion, can be effectively treated endoscopically. Additionally, a clinical update on T1b Esophageal Cancer in the United States in 2019 reported a low risk (6% metastasis rate) of lymph node metastasis in esophageal adenocarcinoma with submucosal invasion <500 μ m. The management of pT1b esophageal adenocarcinoma should take into account the risk of lymph node metastasis and carefully weigh the risks and benefits of additional surgery or concurrent chemoradiation therapy. Further research and data collection are essential to strengthen the existing body of evidence. In this section, we aim to provide an in-depth review of the current evidence and share our institution's case experience concerning T1b EGJ cancer.

Curriculum Vitae



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Academic Degree

Medical doctor, College of Medicine, National Taiwan University

Board Certisfication

Specialist, Internal Medicine Society of Taiwan

Specialist, Gastroenterological Society of Taiwan

Specialist, Digestive endoscopy Society of Taiwan

Publications

- 1. 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.
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 Chou CK, Tsai KF, Tseng CH, Lee CT, Yang KH, Chang MC, Hsu CW. Novel Colorectal Endoscopic Submucosal Dispeties With Double Endoscopic Submucosal Dispeties With Double Endoscopic Submucosal
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 Shieh TY, Chen CC, Chou CK, Hu TY, Wu JF, Chen MJ,
- 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 2021.

Approach and therapeutic value index for Siewert type 2 JKT2-RS1 esophagogastric junction adenocarcinoma

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[Background] Based on the metastasis rate from a prospective observational study on esophagogastric junction adenocarcinoma, the range of lymph node dissection and the surgical approach are recommended according to esophageal involvement, however the therapeutic value index is unclear.

[Patients and Methods]From January 2016 to June 2022, 55 patients who underwent surgery for Siewert type 2 esophagogastric junction adenocarcinoma were investigated for the metastasis rate of mediastinal/ abdominal lymph nodes, therapeutic value index = metastasis rate * 5-year OS rate in patients with metastasis, and short-term outcomes of right thoracic / transhiatal approach.

[Results]When divided into 41 cases of the right thoracic approach (Group A) and 14 cases of the transhiatal approach (Group B), tumor size (50mm vs 24mm) and esophageal involvement (30mm vs 12.5mm) were significantly longer in Group A. The degree of progression (cStage1/2/3/4) was significantly higher in Group A (7/6/26/2) compared to Group B (5/7/2/0). The operation time (524 minutes vs 359 minutes) and blood loss (215ml vs 75ml) were significantly less in Group B, however there was no significant difference in pneumonia (9.8% vs 7.1%), anastomotic leakage (9.8% vs 0%), and pancreatic fistula (2.4% vs 0%) between the two groups. The therapeutic value index was #1 (18.7), #2 (26.4), #3a (20.3), #7 (21.0), #8a (0), #9 (11.4), #11p (4.2), #110 (8.5), #105 (0), #106 recR (0), #108 (0), with the therapeutic value being high for abdominal lymph nodes (#1, #2, #3a, #7, #9) and lower mediastinal lymph nodes (#110), however the therapeutic value was low for #8a, #11p and upper mediastinal lymph nodes.

[Conclusion]For Siewert type 2 esophagogastric junction adenocarcinoma, the therapeutic value of upper mediastinal lymph nodes dissection is low, and adequate lymph node dissection of the abdomen and lower mediastinum and safe reconstruction according to the esophageal involvement are desirable.

Curriculum Vitae



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EDUCATION · March 2016: Graduated from Keio University

Graduate School of Medicine, Ph.D. Program in Medical Science

 March 2009: Graduated from Keio University School of Medicine EXPERIENCE

· April 2021 - Present: AssistantProfessor,DepartmentofSurgery,Hamamatsu University School of Medicine

- · April 2019 March 2021: Associate Chief, Esophageal Surgery, Shizuoka Cancer Center
- · April 2017 March 2019: Staff, Digestive Surgery, Saiseikai Yokohamashi Tobu Hospital
- · April 2016 March 2017: Assistant Professor (Limited Term), Department of Surgery, Keio University School of Medicine
- · April 2015 March 2016: Resident, Esophageal Surgery, Shizuoka Cancer Center
- · April 2013 March 2015: Graduate Student, Department of Surgery, Keio University School of Medicine
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Professional Affiliations and Activities Japan Surgical Society (Certified Surgeon)

Japanese Society of Gastroenterological Surgery (Certified Gastroenterological Surgeon, Instructor, Certified Gastroenterological Cancer Surgeon)

Japanese Esophageal Society (Certified Esophageal Surgeon, Certified Esophageal Specialist, Councilor, Guidelines Committee)

Japanese Society for Endoscopic Surgery (Certified Technique (Thoracoscopic Surgery for Esophageal Cancer))

Japanese Society of Medical Oncology (Certified Oncologist, Instructor) Japan Gastroenterological Endoscopy Society (Certified Gastroenterologist)

Japanese Board of Cancer Therapy (Certified Oncologist)

Japanese Gastric Cancer Association (Delegate, Member of the Patient Advocacy Committee)

Japanese Association for Thoracic Surgery (Certified Surgeon, JATS-

NEXT Committee, JATS-Academy Committee, Guidelines Committee) Japanese Society for Parenteral and Enteral Nutrition (Guidelines

Committee) Japanese Society for Wound Healing (Guidelines Committee)

Awards

- 2023: AGSurg Reviewer Award 2023 (Japanese Society of Gastroenterological Surgery)
- 2022: Esophagus 2021 Best Original Article Award (Japanese Esophageal Society)
- 2022: KINGCA WEEK 2022 Best Oral Presentation Award
- 2022: Esophagus Reviewer Award (Japanese Esophageal Society)
- 2021: Esophagus Reviewer Award (Japanese Esophageal Society)
- 2021: Toulin Encouragement Award (Department of Surgery, Keio University School of Medicine)

JKT2-RS2 Endoscopic treatment for esophagogastric junction carcinoma

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Superficial esophageal cancer (SEC) is frequently detected by a screening endoscopy and the development of endoscopic imaging techniques facilitate the early diagnosis. Endoscopic resection (ER) has been used for SEC when there is a negligible risk of lymph node metastasis (LNM). The majority of esophageal cancers are squamous cell carcinomas (SCCs) in the Asia. SCC occurs more often in the upper and middle third of the esophagus. Esophageal adenocarcinoma mainly develops in the lower third and at the esophagogastric junction (EGJ). The global incidence of EGJ cancer has increased in recent years. From an anatomical and histopathological point of view, EGJ represents the boundary between the esophagus and stomach. Fortunately, ER is established as the first choice treatment for early EGJ carcinoma without histopathologic risk factors of LNM. Multiple studies and long-term analyses have demonstrated excellent efficacy and safety of ER as an alternative to surgery for these lesions. Nevertheless, after ER of EGJ carcinoma with histopathologic risk factors for LNM, optimal management is still unclear.

Curriculum Vitae



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Educational Background

2003 B.S., Sungkyunkwan University School of Medicine, Seoul, Korea 2008 M.S., Graduate School, Sungkyunkwan University, Seoul, Korea 2015 Ph.D., Graduate School, Sungkyunkwan University, Seoul, Korea

Professional Career

- 2015 Assistant Professor
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Research Field Endoscopic interventions Esophageal cancer Esophageal motility disorders

Recent Papers

- Hypercontractile Esophagus: Clinical and Manometric Features From a Multicenter Korean Cohort. J Neurogastroenterol Motil. 2023 Apr 30;29(2):166-173.
- 2. Endoscopic vacuum therapy for the management of upper GI leaks and

perforations: a multicenter retrospective study of factors associated with treatment failure (with video). Gastrointest Endosc. 2022 Feb;95(2):281-290.

- The effects of oral steroid duration on stricture prevention after extensive endoscopic submucosal dissection for superficial esophageal cancer. J Thorac Dis. 2022 Jun;14(6):2061-2070.
- Close Observation versus Additional Surgery after Noncurative Endoscopic Resection of Esophageal Squamous Cell Carcinoma. Dig Surg. 2021;38(3):247-254.
- Risk factors of metachronous recurrence after endoscopic submucosal dissection for superficial esophageal squamous cell carcinoma. PLoS One. 2020 Sep 4;15(9):e0238113.
- Comparison of endoscopic submucosal dissection and surgery for superficial esophageal squamous cell carcinoma: A propensity score-matched analysis. Gastrointest Endosc. 2018 Oct;88(4):624-633.
- Endoscopic submucosal dissection under general anesthesia for superficial esophageal squamous cell carcinoma is associated with better clinical outcomes. BMC Gastroenterol. 2018 Jun 7;18(1):80.
- Endoscopic Treatment for Esophageal Cancer. Korean J Gastroenterol. 2018 Mar 25;71(3):116-123.
- 9. Endoscopic prediction model for differentiating upper submucosal invasion (< 200μ m) and beyond in superficial esophageal squamous cell carcinoma. Oncotarget. 2018 Jan 3;9(10):9156-9165.
- Efficacy and safety of endoscopic submucosal dissection in elderly patients with esophageal squamous cell carcinoma. Surg Endosc. 2017 Oct;31(10):3905-3911.

JKT2-RS3 Recent advances in perioperative treatment for esophagogastric junction cancer

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The incidence of esophagogastric junction (EGJ) cancer is increasing worldwide. EGJ cancer is defined as the epicenter of adenocarcinoma locating within 5 cm of EGJ according to Siewert classification, or any histology of cancer with epicenter withing 2 cm of EGJ based on the Nishi classification in Japan. The prognosis of EGJ cancer is poor compared to gastric cancer and establishing optimal treatment strategies is important.

Currently, few clinical trials are designed for EGJ cancer only because EGJ cancer is still a less frequently occurring tumor type, especially in Asia. EGJ cancer patients are usually enrolled in clinical trials for esophageal or gastric cancer patients. Thus, we can only try to identify the advance of anti-cancer treatments in EGJ cancer from these trials. Recently, development of multimodal treatments with perioperative strategy has improved the treatment outcomes in locally advanced EGJ and gastric cancer, such as novel chemotherapy combinations, chemoradiation, targeted therapy and immune checkpoint inhibitors. A pivotal trial demonstrated perioperative FLOT4 increased the survival outcomes compared to ECF in Western patients. The initial results from two clinical trials (KEYNOTE 585 and MATTERHORN) show immune checkpoint inhibitor plus chemotherapy is associated with higher pathological complete response rate compared to chemotherapy alone. Biomarker-driven strategy has also been tested in several trials in Her2 amplified and mismatch repair deficient or microsatellite instability-high tumors and the results are also encouraging. In this presentation, I will have a mini-review of the recent advance of perioperative treatment in EGJ cancer.

Curriculum Vitae



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EDUCATION

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PROFESSIONAL EXPERIENCES

Attending physician: Department of Medical Oncology, National Taiwan University Cancer Center. March, 2019- present.

- Attending physician: Department of Oncology, National Taiwan University Hospital, Taipei, Taiwan. July, 2015- March, 2019
- 6th Clinical Research Skill Advancement Workshop (J-HOPE), Chiba, Japan, 2017 3rd Paul Carbone Academy, Taipei, 2013-2014

Attending physician: Oncology Department of National Taiwan University Hospital, Yun-Lin Branch. July, 2013- June, 2015

Fellowship: Oncology Department of National Taiwan University Hospital. July, 2010- June, 2013

Resident: Internal Medicine Department of National Taiwan University Hospital. July, 2007- June, 2010

LICENSES / CERTIFICATION License: National Board of Medicine, 2005 Certification: Board of Internal Medicine, 2010 Board of Medical Oncology, 2013 FIELDS OF INTERESTS

Colorectal Cancer, Gastric Cancer, Epigenetics, Immuno-oncology

PUBLICATIONS (within 5 years):

- KH Chen, CL Hsu, YL Su, CT Yuan, LI Lin, JH Tsai, YH Liang, AL Cheng, KH Yeh. Novel prognostic implications of complement activation in the tumor microenvironment for de novo metastatic BRAF V600E mutant colorectal cancer. Br J Cancer 2022;128(1):102-111. doi:10.1038/s41416-022-02010-2
- YH Liang, KH Chen, JH Tsai, YM Cheng, CC Lee, CH Kao, KY Chan, YT Chen, WL Hsu, KH Yeh. Proteasome inhibitors restore the STAT1 pathway and enhance the expression of MHC class I on human colon cancer cells. J Biomed Sci. 2021 Nov 10;28(1):75. https://doi: 10.1186/s12929-021-00769-9.
- KH Chen, LI Lin, CT Yuan, Tseng LH, YL Chao, YH Liang, JT Laing, BR Lin, AL Cheng, KH Yeh. Association between risk factors, molecular features and CpG island methylator phenotype colorectal cancer among different age groups in a Taiwanese cohort. Br J Cancer 125, 48-54 (2021). https://doi.org/10.1038/ s41416-021-01300-5
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 KH Chen, LI Lin, LH Tseng, YL Lin, JY Liau, JH Tsai, JT Liang, BR Lin, AL Cheng, KH Yeh. CpG Island Methylator Phenotype May Predict Poor Overall Survival of Patients with Stage IV Colorectal Cancer. Oncology. 2019;96(3):156-163. doi: 10.1159/000493387.

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Biliary, Pancreas

JKT3



Current status and future perspectives of Interventional EUS in Japan JKT3-1

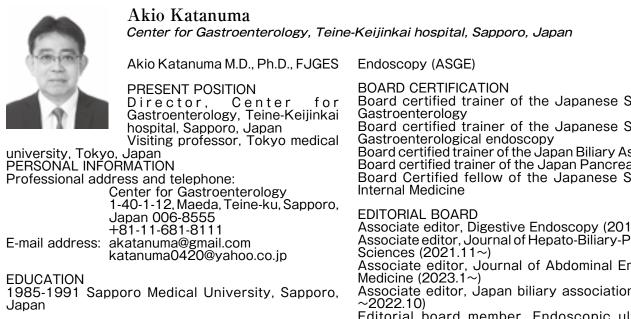
Akio Katanuma

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Interventional EUS has made dramatic progress in Japan since EUS-FNA was covered by insurance in 2010. In Japan, there was a negative opinion about FNA due to the high level of trust in imaging diagnosis and the risk of needle tract seeding caused by puncture of malignant tumors. After reports on the usefulness of neoadjuvant treatment (NAT) for pancreatic cancer, there is a growing consensus that it is necessary to obtain histological confirmation by FNA. In addition, there have been many reports on the high histological diagnostic capability of FNA, as well as biomarker and gene evaluation, and FNA has become a wellestablished technique. However, there are many reports from Japan of needle tract seeding after FNA, and many institutions still consider that FNA is contraindication for cystic pancreatic tumors.

In terms of therapeutic indication, drainage of pancreatic cysts has been performed and the indications have expanded to include drainage of the biliary tract and pancreatic ducts, etc. In 2019, the guideline for EUS-BD was published in Japan, which have contributed greatly to the safe technique of interventional EUS. EUSguided drainage requires several steps such as puncture, dilation, and stent deployment. In the past, without dedicated devices for interventional EUS made the procedure was challenging, and several serious adverse events were reported. Recently, dedicated dilation devices such as mechanical dilators, cautery dilators, and drill-type dilators, have been developed and are now available to use in Japan. In addition, specialized stents that can be easily deployed are also commercially available. The development of specialized devices is considered to have made it possible to perform the procedure more safely and reliably. Lumen apposing metal stent (LAMS) is now covered by medical insurance for use in peri-pancreatic fluid collection (PFC) in Japan. LAMS can be used only for PFC, and the indication has not been expanded to the gallbladder drainage. Interventional EUS will continue to progress in Japan, but it is unlikely that all procedures will replace ERCP. The education program is required to perform for the safe interventional EUS procedures.

Curriculum Vitae



SOCIETY MEMBERSHIPS The Japanese Society of Internal Medicine, The Japanese Society of Gastroenterology (JSGE), Japan Gastroenterological Endoscopy Society (JGES), Japan Biliary Association, Japan Pancreas Society, The Japan Society of Ultrasonic in Medicine, The Japanese Society of Gastrointestinal Cancer Screening, The American Society for Gastrointestinal Board certified trainer of the Japanese Society of

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Board certified trainer of the Japan Biliary Association Board certified trainer of the Japan Pancreas Society Board Certified fellow of the Japanese Society of

Associate editor, Digestive Endoscopy (2018.1-) Associate editor, Journal of Hepato-Biliary-Pancreatic Associate editor, Journal of Abdominal Emergency Associate editor, Japan biliary association (2017.2 Editorial board member, Endoscopic ultrasound (2016.10)



15

Development and Clinical Application of a Novel Stent for EUS-Guided JKT3-2 Transmural Drainage

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Endoscopic ultrasonography-guided transmural drainage in the pancreaticobiliary field is currently widely used for acute cholecystitis in peripancreatic fluid retention, and has shown great progress in recent years. In the past, a decicated stern for this procedure was not developed, so a plastic stent inserted into the biliary tract or a tubular metal stent (tubular SEMS) was used. However, tubular SEMS has the disadvantage of low patency and technical difficulty in insertion, and tubular SEMS has the disadvantage of high risk of deviation and possible leakage. Recently, LAMS (Lumen Apposing Metal Stent) was developed as a stent for and has the advantage of lowering the risk of stent detachment or leakage by bringing the two structures into close contact. It is considered to be superior to conventional stents in pancreatic fluid retention with solid debris as it is advantageous for endoscopic debridement. (1,2) However, for endoscopy beginners with insufficient experience, LAMS procedures are technically difficult, and when stents are placed for a long period of time, there is a risk of adverse reactions such as bleeding or buried LAMS syndrome (3). In the 2018 European Society of Gastrointestinal Endoscopy (ESGE) guidelines, when LAMS is inserted in pancreatic duct break syndrome, it is recommended to remove it within 4 weeks to prevent adverse reactions (4). Tornado stent was developed to overcome these disadvantages. The Tornado stent is a self-expanding, se complications in ultrasound-guided transmural drainage.

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 Arvanitakis M, Dumonceau JM, Albert J, Badaoui A, Bali MA, Barthet M, et al. Endoscopic management of acute necrotizing pancreatitis: European Society of Gastrointestinal Endoscopy (ESGE) evidence-based multidisciplinary guidelines. Endoscopy. 2018;50(5):524-46.
 Huh G, Choi JH, Lee SH, Paik WH, Ryu JK, Kim YT, et al. Innovation of EUS-guided transmural gallbladder drainage using a novel self-expanding metal stent. Sci Rep. 2020;10(1):11159.

Curriculum Vitae



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Education and Training

2005- 2007: Ph.D. in Medicine Seoul National University College of Medicine Graduate School, Seoul, Korea

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1990– 1997: M.D. & B.S. in Medicine Seoul National University College of Medicine Graduate School, Seoul, Korea

2005–2007: Fellowship in Division of Gastroenterology and Department of Internal Medicine,

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1998 - 2002: Resident in Department of Internal Medicine, Seoul National University Hospital, Seoul, Korea

1997 – 1998: Internship in Seoul National University Hospital, Seoul, Korea

Professional Experiences

2019 - current: Professor Division of Gastroenterology and Department of Internal Medicine Seoul National University Hospital, Seoul, Korea

2013 - 2018: Associate professor Division of Gastroenterology and Department of Internal Medicine Seoul National University Hospital, Seoul, Korea

2015-2016: Visiting Scholar Moores Cancer Center, University of California, San Diego

2012 - 2013: Assistant professor Division of Gastroenterology and Department of Internal Medicine Seoul National University Hospital, Seoul, Korea

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2007 - 2012: Assistant professor Division of Gastroenterology and Department of Internal Medicine Seoul National University Bundang Hospital, Seongnam, Korea

2002 - 2005: Director Division of Gastroenterology and Department of Internal Medicine Cheju Halla General Hospital, Cheju, Korea

Field of expertise:

I am a gastroenterologist and an endoscopist of pancreaticobiliary disease such as acute pancreatitis, chronic pancreatitis, pancreatic cancer, gallstone and bile duct cancer. I assumed my present appointment in 2019 and currently share responsibility for the provision of specialist for medical gastroenterological services in the Seoul National University Hospital. These include the full range of diagnostic procedures, clinics including chemotherapy and consultations appropriate to a large teaching and consultations appropriate to a large teaching hospital. I have had particular responsibility for biliary and pancreatic diseases. I have performed the clinical and translational study for biliary and pancreatic diseases. I am trying to develop the new type stents for the intervention and new therapeutic agent for the pancreate biliary pancreato-biliary malignancy.

My research topics: -Pancreas and Bile Duct Cancer -Cholangitis, Pandreatitis, Choledocholithiasis

-Therapeutic Endoscopy using ERCP and EUS -Development of New Device and Stent -Translational Research using Pancreatic Cancer Organoid

Publications:

109 international journal as 1st and Corresponding Author

120 international journal as Co-author

Recent published articles in the international journal as 1st author or corresponding author (2022~2023)

- Son JH, Choi YH, Lee SH, et al. Flavokawain B Inhibits Growth of Cholangiocarcinoma Cells by Suppressing the Akt Pathway. In Vivo 2023;37:1077-1084. Park JM, Park N, Lee SH, et al. A population-based cohort study on risk factors for acute pancreatitis: A comparison by age group. Pancreatology 2023. Paik WH, Jang DK, Cho S, et al. Acute Pancreatitis and the Risk of Dementia in Diabetes: A Nationwide Cohort Study Using Korean Healthcare Claims Database. J Alzheimers Dis 2023;94:205-216. Lee SH, Choe JW, Cheon YK, et al. Revised Clinical Practice Guidelines of the Korean Pancreatobiliary Association for Acute Pancreatitis. Gut Liver 1.
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 Choi JH, Lee J, Lee SH, et al. Analysis of ultrasonographic images using a deep learning-based model as ancillary diagnostic tool for diagnosing gallbladder polyps. Dig Liver Dis 2023.
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- of novel hemostatic gel in endoscopic sphincterotomy or endoscopic papillectomy: A multicenter, randomized controlled clinical trial. Dig Liver Dis 2023.
 12. Cho IR, Lee SH, Choi JH, et al. Development of novel biliary metal stent with coil-spring structure and its application in vivo swine biliary stricture model. Frontiers in Oncology 2023;13.
 13. Cho IR, Han KD, Lee SH, et al. Association between glycemic status and the risk of acute pancreatitis: a nationwide population-based study. Diabetol

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 Lee JH, Kim H, Lee SH, et al. Establishment of Patient-Derived Pancreatic Cancer Organoids from Endoscopic Ultrasound-Guided Fine-Needle Aspiration Biopsies. Gut Liver 2022;16:625-636.
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 21. Choi JH, Lee SH, Kim JS, et al. Combinatorial Effect of Prophylactic Interventions for Post-ERCP Pancreatitis among Patients with Risk Factors: A Network Meta-Analysis. Gut Liver 2022.
 22. Choi JH, Kim MK, Lee SH, et al. Proper adjuvant
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JKT3-3 Endoscopic ultrasound-guided gastroenterostomy with a lumenapposing metal stent : a multicenter prospective study

Yu-Ting Kuo¹⁾, Hsiu-Po Wang²⁾

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Gastric outlet obstruction (GOO) can be caused by periampullary malignancies and often leads to a reduction in a patient's quality of life. Recently, endoscopic ultrasonography-guided gastroenterostomy (EUS-GE) using a lumen-apposing self-expandable metal stent (LAMS) has been developed as a minimally invasive and durable endoscopic treatment for GOO. EUS-GE has the advantage of being minimally invasive as an endoscopic procedure and EUS-GE could provide long-lasting effects with lower recurrence rates. Moreover, a recent study suggests that EUS-GE has similar technical and clinical success rates compared to laparoscopic gastroenterostomy. Interestingly, EUS- intervention seems to reduce the length of stay and incidence of AEs, suggesting possible advantages compared to surgery.

In our prospective study including 139 patients, technical and clinical success was achieved in 136 patients (97.8%) and 129 (92.8%), respectively. The mean change in the gastric outlet obstruction scoring system (GOOSS) after EUS-GE was 2.2. During a mean follow-up of 131 days, 10 patients (7.4%) need reintervention. Adverse events, including stent mal-displacement, bleeding and migration, occurred in 16 patients (13.1%). EUS-GE is an emerging and minimally invasive procedure that has efficacy and safety comparable with those of current therapies for the management of malignant GOO.

Curriculum Vitae



Yu-Ting Kuo Department of Integrated Diagnostics & Therapeutics, National Taiwan University Hospital, Taiwan

Dr. Yu-Ting Kuo is attending physician at the Division of Endoscopy of National Taiwan University Hospital. He graduated from the Medical school of Tzu-Chi University and got Master of Science degree in Epidemiology and Preventive Medicine (MSc) at National Taiwan

University. He completed Internal Medicine and Gastroenterology training at the National Taiwan University Hospital. He was also a visiting staff of biliopancreatic department at The University of Tokyo Hospital in 2014. His main interests are all kinds of therapeutic endoscopy, especially endoscopic retrograde cholangiopancreatography (ERCP) and endoscopic ultrasound (EUS)/ Interventional EUS in hepato-pancreato-biliary area.

He has been an instructor of EUS education programs in digestive endoscopy society of Taiwan (DEST) since 2016. In addition, he attended different Asia EUS Group (AEG) EUS training programs, including 2nd Prince of Wales Hospital AEG Train the Trainer (TTT) EUS Course in Hong Kong, in 2015, 3rd Focused Interventional Workshop on EUS-guided Drainage of Peri-pancreatic Fluid Collections in Hong Kong, in 2015 and Asian EUS Summit 2016 - Interventional EUS in Seoul Korea, in 2016, respectively. He also completed the training program of 1st WEO International School of EUS (WISE) in 2018.

Education:

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M.S., Institute of Epidemiology and Preventive Medicine, National Taiwan University, January 2017

Current Position:

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Previous position:

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Certification:

Diplomate, National Board of Medical Examiners, 2007 Diplomate, Board of Internal Medicine, 2012 Diplomate, Board of Gastroenterology, 2014 Diplomate, Board of Digestive Endoscopy, 2015 Diplomate, Board of Therapeutic Endoscopic Retrograde Cholangiopancreatography, 2017

Organizations:

Taiwan Society of Internal Medicine Gastroenterological Society of Taiwan Digestive Endoscopy Society of Taiwan

JKT3-RS1 Clinical outcomes of EUS-guided antegrade stone removal for common bile duct stones in patients with surgically altered anatomy

Shuntaro Mukai, Takayoshi Tsuchiya, Takao Itoi

Department of Gastroenterology and Hepatology, Tokyo Medical University, Japan

Background and Aims: Although balloon enteroscopy-assisted ERCP (BE-ERCP) is an effective and safe treatment technique for common bile duct (CBD) stones in patients with surgically altered anatomy (SAA), BE-ERCP is not always successful. Recently, EUS-guided antegrade stone removal (EUS-ASR) by using a 1-step or 2-step procedure has been developed for BE-ERCP failure cases. The aim of this study was to evaluate the clinical outcomes of EUS-ASR for CBD stones in patients with SAA.

Methods: In 29 of 217 patients [14.4%, mean 79 years old, post total or distal gastrectomy with Roux-en-Y reconstruction (n=27), post distal gastrectomy with Billroth-II reconstruction (n=2)] in whom BE-ERCP failed, EUS-ASR was attempted for difficult CBD stones from January 2014 to December 2022.

Results: The overall technical success of the creation of the hepatoenteric tract was 96.6% (28/29, HGS/HJS=13/15). The mean diameter of punctured bile duct was 2.8mm (1.5-4.7). 19-gauge puncture needle was used in 8 cases and 22-gauge in 20 cases (two-step puncture technique was required in 3 cases). In one failure case, it was difficult to puncture the non-dilated bile duct. Adverse events were observed in only one case (3.6%, 1/28, bleeding at the puncture line). Regarding stone removal, 1-stage EUS-ASR was performed in 10 cases (mean stone size 7mm) and complete stone removal was succeeded in all cases with mean 23 minutes procedure time. In another 18 cases (mean stone size 13mm), 2-stage EUS-ASR was performed mean 51 days after EUS-HGS/HJS. In 14 cases complete antegrade stone removal was succeeded and in 3 cases stone removal was succeeded by antegrade rendezvous technique and BE-ERCP with low adverse event rate 5.6% (1/18, cholangitis 1). The final clinical success rate of EUS-ASR was 93.1% (27/29, intention to treat analysis). After EUS-ASR in 26 cases the stent placed at the hepatoenteric tract was removed finally and stent-free was achieved. In one case, the fistula was kept due to the patient's desire.

Conclusions: 1-step or 2-step EUS-ASR depending to the situation of CBD stones in patients with SAA appears to be an effective and safe alternative procedure after BE-ERCP failure.

Curriculum Vitae



Current status and future perspectives of Interventional EUS in Asia JKT3-RS2 focused on EUS-guided gallbladder drainage in South Korea

Se Woo Park

Department of Internal Medicine, Hallym University Dongtan Sacred Heart Hospital, Hallym University College of Medicine, Hwaseong, South Korea

Laparoscopic cholecystectomy is considered the standard and preferred treatment for acute cholecystitis (AC). However, this surgical option may not be suitable for certain patients who are not ideal candidates for surgery due to various factors. Recently, endoscopic ultrasound (EUS)-guided gallbladder (GB) drainage (EUS-GBD) represents a potentially disruptive technology, as it offers a less invasive alternative to traditional surgical approaches. As a result, therapeutic strategies are experiencing a notable paradigm shift, leaning towards minimally invasive treatments. While the field is continuously evolving, several devices and techniques are currently being developed to facilitate easier and safer procedures for EUS-GBD. Indeed, recent innovations in the field of EUS-GBD, such as the lumen-apposing metal stents (LAMSs) with directional anchoring flanges, have significantly improved outcomes for patients requiring drainage. Additionally the anchoring flanges, have significantly improved outcomes for patients requiring drainage. Additionally, the use of LAMS has proven to be not only safe and reliable for cases of acute cholecystitis but also beneficial in enhancing the quality of life for patients who may not be ideal candidates for surgical treatment. As an endosonographer performing EUS-GBD, there are several questions and uncertainties surrounding this procedure. Some of the key questions include: 1. Optimal Patient Selection: What are the specific criteria for identifying the most suitable candidates for EUS CRD2 Which periods are likely to benefit the most from this procedure compared to other treatment.

EUS-GBD? Which patients are likely to benefit the most from this procedure compared to other treatment options?

2. Long-term Management: What are the long-term outcomes and potential complications associated with EUS-GBD?

Stent Selection: What factors should be considered when selecting the appropriate stent for EUS-GBD?
 Comparisons with Surgical Options: How do the outcomes of EUS-GBD compare to traditional surgical interventions, such as laparoscopic cholecystectomy, in terms of efficacy, safety, and patient satisfaction?
 Timing of Intervention: In what situations is EUS-GBD best utilized as a definitive treatment, and when is it

5. Timing of Intervention: In what situations is EUS-GBD best utilized as a definitive treatment, and when is it more appropriate as a bridging therapy until surgical options become feasible?
6. Complication Management: How should potential complications, such as bile reflux, stent migration, or food impaction, be managed in patients undergoing EUS-GBD?
7. Future Developments: What ongoing research and technological advancements are being pursued to further improve the efficacy, safety, and overall outcomes of EUS-GBD?
Addressing these questions through further research, collaboration among endosonographers, and shared experiences will contribute to a deeper understanding and optimization of EUS-GBD as a valuable therapeutic option for patients. option for patients.

Curriculum Vitae



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PROFESSIONAL ACTIVITIES:

- 2004 2009: Intern & Resident Trainee in Department of Internal Medicine, Hanyang University Hospital, Hanyang University College of Medicine, Seoul, Korea
- 2012 2013: Clinical Fellowship, Division of Gastroenterology, Department of Internal Medicine, Yonsei University College of Medicine, Seoul, Korea
- 2014 2015: Clinical Assistant Professor, Division of Gastroenterology, Department of Internal Medicine, Hallym University Dongtan

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FIELDS OF INTEREST:

Interventional EUS and ERCP for Pancreatic cancer and Bile duct cancer Development of medical device for Interventional EUS and ERCP Clinical Research and Trials in Pancreatic cancer and Bile duct cancer

SOCIETIES:

- 1. The Korean Association of Internal Medicine 2. Korean Society of Gastroenterology
- 3. Korean Society of Gastrointestinal Endoscopy
- 4. Korean Pancreatobiliary Association
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PUBLICATIONS IN RECENT YEARS

SCI (E)as First author or Corresponding author (N): 47 papers SCI (E)as co-author (N): 19 papers

Radiofrequency ablation: A novel endoscopic focal treatment of JKT3-RS3 pancreatic cancer

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Pancreatic ductal adenocarcinoma (PDAC) is a leading cause of cancer death worldwide. Surgery is the only possible complete treatment for these patients. However, there is no effective screening tool, and patients often present with nonspecific symptoms, resulting in early diagnosis of resectable disease in only 10-15% of cases. The lack of new systemic treatment agents and an immunosuppressive tumor microenvironment have resulted in a persistently low 5-year survival rate of around 10% for pancreatic adenocarcinoma, which is far behind other malignant diseases. In the near future, pancreatic cancer is expected to become the leading cause of cancer-related mortality.

Several attempts, such as neoadjuvant chemotherapy and radiation therapy, have been applied in the treatment of pancreatic adenocarcinoma for decades. However, these approaches have only resulted in a dismal improvement in survival.

Radiofrequency ablation (RFA) is a thermal ablation technique that has been used for a long time in the treatment of liver and thyroid tumors. It employs an alternating RF current to generate heat and induce coagulation inside the tumor. RFA has been reported to induce an antigen-presenting effect and amplify weak tumor-related immunity which is crucial in cancer treatment. In addition, the technical success rate and procedure-related complication rate are acceptable, with complications usually being manageable non-surgically according to literature reviews. Although the overall survival benefit of combining RFA with PDAC treatment remains controversial, several existing studies have revealed better outcomes when RFA is combined with neoadiuvant chemotherapy.

In this retrospective single-center experience review, RFA was found to enhance treatment response in some patients, while others did not benefit. Further investigation into the potential benefits of RFA for patients is essential

Curriculum Vitae



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Attending physician in National Cheng Kung University Hospital. Department of internal medicine, Gastrointestinal and hepatology Branch.

Assistant professor in College of Medicine National Cheng Kung University

Education 2002 ~ 2009 School of medicine, National Cheng Kung University

2016 ~ 2018 Institute of Clinical Medicine, College of Medicine National

Cheng Kung University Board 2010~2015

Resident Physician, Department of Internal medicine National Cheng Kung University Hospital

2015 ~ present

Attending physician, Department of Internal medicine National Cheng Kung University Hospital

2023 ~ present

Assistant professor, College of Medicine, National Cheng Kung University 2017

Trainee, Kitasato University, Kanagawa, Japan 2019

Trainee, Tokyo Medical University, Tokyo, Japan

Publication

Meng-Ying Lin, Wei-Lun Chang, Hsiao-Bai Yang, Wen-Lun Wang, Bor-Shyang Sheu, Genetic polymorphisms of the X-linked transcription factor forkhead box P3 predispose to synchronous secondary primary malignancy (SPM) of esophagus in head and neck squamous cell carcinoma patients. Advances in Digestive Medicine 8(2), 91-97, 2021

Meng-Ying Lin, CL Wu, M Kida, WL Chang, BS Sheu

Confirming Whether Fine Needle Biopsy Device Shortens the Learning Curve of Endoscopic Ultrasound-Guided Tissue Acquisition Without Rapid Onsite Evaluation

Clinical Endoscopy 54 (3), 420-427, 2021 Meng-Ying Lin, CT Lee, MT Hsieh, MC Ou, YS Wang, MC Lee, WL Chang,

Endoscopic ultrasound avoids adverse events in high probability choledocholithiasis patients with a negative computed tomography. BMC gastroenterology 22 (1), 1-8, 2022 HC Chiang, Meng-Ying Lin, FC Lin, NJ Chiang, YC Wang, WW Lai, WL Chang

Transferrin and prealbumin identify esophageal cancer patients with malnutrition and poor prognosis in patients with normal albuminemia: a cohort study. Nutrition and Cancer 74 (10), 3546-3555, 2022

Meng-Ying Lin, CL Wu, YY Su, CJ Huang, WL Chang, BS Sheu

Tissue Quality Comparison Between Heparinized Wet Suction and Dry Suction in Endoscopic Ultrasound-Fine Needle Biopsy of Solid Pancreatic Masses: A Randomized Crossover Study. Gut and Liver 17 (2), 318-327, 2023

Meng-Ying Lin, YY Su, YT, Yu, CJ Huang, BS Sheu, WL Chang Investigation into the content of red material in EUS-guided pancreatic cancer biopsies. Gastrointestinal Endoscopy 97 (6), 1083-1091, 2023 YH Chang, Meng-Ying Lin, MT Hsieh, MC Ou, CR Huang, BS Sheu Multiple Field-Of-View Based Attention Driven Network For Weakly-Supervised Common Bile Duct Stone Detection. IEEE Journal of Translational Engineering in Health 11, 394-404, 2023

JKT4 14:00-16:15 Waraku [Room 10] Liver Tailoring multiple lines of systemic therapy for advanced HCC

		and the second second second second second
	Chair (J):	Naoya Kato Department of Gastroenterology, Graduate School of Medicine, Chiba University, Japan
	Chair (K):	Kyung-Suk Suh Department of Surgery, Seoul National University College of Medicine,, Korea
	Chair (T):	Chiun Hsu National Taiwan University Hospital, Taiwan
	Discusser (J):	Takahiro Kodama Department of Gastroenterology and Hepatology, Osaka University Graduate School of Medicine, Japan
	Discusser (K):	Do Young Kim Department of Internal Medicine, Yonsei University College of Medicine, Korea
	Discusser (T):	Yu-Yun Shao National Taiwan University Hospital, Taiwan
	Speaker (J):	JKT4-1
		Tailoring systemic treatment based on tumor burden for advanced hepatocellular carcinoma.
		Tatsuya Yamashita Department of Gastroenterology, Kanazawa University Hospital, Japan
	Speaker (K):	JKT4-2
		Surgical Conversion in Locally Advanced Hepatocellular Carcinoma Through Multimodal Systemic Therapy
		Su Jong Yu Department of Internal Medicine and Liver Research Institute, Seoul National University College of Medicine, Seoul, Republic of Korea
	Speaker (T):	JKT4-3
		Proton Therapy for Hepatocellular Carcinoma Huang Bing-Shen
		Department of Radiation Oncology, Chang Gung Memorial Hospital, Taiwan
	Rising Star Program (J):	JKT4-1-RS1
		Importance of preclinical rationales to establish appropriate treatment sequences in the era of chemo-diversity for HCC Hideki Iwamoto
		Division of Gastroenterology, Department of Medicine, Kurume University School of Medicine, Japan
	Rising Star Program (K):	JKT4-1-RS2
		Tailoring multiple lines of systemic therapy for advanced HCC Cho Yuri Center for Liver and Pancreatobiliary Cancer, National Cancer Center, Goyang, Republic of Korea
	Rising Star Program (T):	
H		Role of liver-directed therapy for advanced hepatocellular carcinoma in the era of combination immunotherapy
1		Yung-Yeh Su National Institute of Cancer Research, National Health Research Institutes, Taiwan
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Tailoring systemic treatment based on tumor burden for advanced JKT4-1 hepatocellular carcinoma.

Tatsuya Yamashita, Takeshi Terashima, Taro Yamashita

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The systemic therapy for advanced hepatocellular carcinoma (HCC) has shifted from molecular target agents to immunotherapy. Globally, six immunotherapies, including atezolizumab + bevacizumab, STRIDE (tremelimumab + durvalumab), atezolizumab + cabozantinib, durvalumab monotherapy, tislelizumab, and pembrolizumab, have shown positive results in clinical trials. In Japan, three immunotherapies, including atezolizumab + bevacizumab, STRIDE, and durvalumab monotherapy, as well as five molecular target agents (sorafenib, lenvatinib, regorafenib, cabozantinib, and ramucirumab), can be used as systemic treatments for unresectable HCC. Following the insurance coverage of STRIDE and durvalumab, the Japanese guidelines for hepatocellular carcinoma treatment were revised. STRIDE is recommended as one of the first-line treatments, and durvalumab is recommended as one of the treatments when combination immunotherapies are not suitable. The treatment algorithm for systemic therapy in the guidelines was also revised. After the approval of atezolizumab + bevacizumab, the first-line systemic therapy shifted from lenvatinib to atezolizumab + bevacizumab, and most of the second-line treatment after atezolizumab + bevacizumab was lenvatinib, based on the results of the HERITAGE study, which analyzed real-world data of systemic therapy for hepatocellular carcinoma in Japan. In real practical settings in Japan, STRIDE is used as the secondline systemic therapy after atezolizumab + bevacizumab. However, the efficacy and safety of STRIDE after atezolizumab + bevacizumab remain unclear. The emergence of these immunotherapies has changed the treatment target to the objective response rate (ORR) because the ORR correlates with overall survival. Several ongoing clinical trials in Japan aim to achieve a higher ORR. One of the treatments is lenvatinib combined with intrahepatic arterial infusion of cisplatin (LEN + CDDP), which has shown an ORR of more than 50%. The ORR of Atezolizumab + bevacizumab and STRIDE is 30% and 20%, respectively. Meanwhile, STRIDE showed a higher rate of progressive disease (PD) although it showed longer durable response. Considering these ORRs and the PD rate, one idea is tailoring systemic treatment based on tumor burden. STRIDE can be selected as the first-line treatment in cases of low tumor burden, and LEN + CDDP can be selected in cases of high tumor burden. Comprehensive genome profiling (CGP) was approved in Japan for second or later treatment selection. We have experienced some cases where treatment was selected based on CGP.

Curriculum Vitae



Tatsuya Yamashita

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Name: Tatsuya Yamashita, MD, PhD Current Position, Department, Affiliation: Associate Professor, Advanced

preventive medical sciences research center, Kanazawa University, Japan Director, WHO Collaborating Center

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Area of interest:

- 1. Diagnosis and Treatment of Hepatocellular carcinoma
- 2. Diagnosis and Treatment of Viral Hepatitis

Education.

- 1993 Graduate from Kanazawa University School of Medicine (MD)
- 1998 Graduate from Graduate School of Medicine, Kanazawa University (PhD)

Career Experiences:

January 1 2018~Now

Associate Professor, Advanced preventive medical sciences research center, Kanazawa University April 1 2016~December 31 2017

Lecture, Department of Gastroenterology, Kanazawa University Hospital

April 1 2009~March 2016

Research Professor, Center for Education in Community Medicine (Department of Community Medicine and Medical Education), Kanazawa University Hospital

- June 1 2014~Novmber 30 2014
- Secondment, Global Hepatitis Programme, Department of HIV, World Health Organization April 1 2001~July 31 2009

Assistant Professor, Department of Gastroenterology, Kanazawa University Hospital October 1 1999~March 31 2001

- Medical staff, Department of Gastroenterology, Kanazawa University Hospital

Professional Memberships:

Japanese Society of Medical Oncology, American Society of Clinical Oncology, Japan Society of Clinical Oncology, European Society for Medical Oncology, Japanese Cancer Association, Japan Liver Cancer Association, Japan Association of Molecular Targeted Therapy for HCC, The Japan Society of Hepatology, American Association for the Study of Liver Diseases, Asian Pacific Association for the Study of the Liver, The Japanese Society of Internal Medicine, The Japanese Society of Gastroenterology, Japan Gastroenterological Endoscopy Society, The Japan Society of Ultrasonics in Medicine, The Japan Society for Portal Hypertension, Japanese Society of Implantable

Surgical Conversion in Locally Advanced Hepatocellular Carcinoma JKT4-2 Through Multimodal Systemic Therapy

Su Jong Yu

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In recent years, advanced Hepatocellular Carcinoma (HCC) management has seen remarkable advancements. The combination of atezolizumab and bevacizumab in immunotherapy achieved a groundbreaking 12% Complete Response (CR) rate, potentially transforming the treatment landscape for previously deemed incurable HCC(1). Even in cases where programmed cell death protein-1/ programmed cell death ligand-1 antibody therapy had failed, promising outcomes were observed with lenvatinib monotherapy(2).

However, a significant challenge arises when patients achieve radiologically favorable responses through multimodal systemic therapy. The optimal course of action Research led by Mazzaferro has shed light on this complex dilemma(3). Liver transplantation emerged as a significant contributor to improved survival, with a median Overall Survival (mOS) of 14.5 months. Notably, an important distinction emerged: patients achieving a partial response after downstaging and conversion experienced a substantially prolonged mOS of 26.5 months, whereas those with CR who did not proceed to transplantation had a lower mOS of 9.9 months. This underscores that radiologically favorable responses may not consistently align with pathologically favorable responses, and some patients with radiologically favorable responses may still face disease progression, often due to refusing transplantation.

Stin face disease progression, offendate to redusing transplantation. Furthermore, other studies have underscored that some patients who initially respond to treatment may eventually experience disease progression(4). This underscores the significance of considering curative options such as conversion surgery or local ablation for individuals achieving radiologically favorable responses through immunotherapy, potentially extending their survival(5). On a different front, research has illuminated the possibility of surgical conversion in initially unresectable HCC through systemic or local therapies. Previous attempts with two-drug combinations yielded discouraging conversion rates, typically around 15-20%(6). Current studies are focused on comprehensive combination therapies that merge hepatic arterial infusion chemotherapy (HAIC)-based locoregional therapy with targeted therapy and immunotherapy(7). This innovative approach aims to balator averging conversion comprehensive component by beproving or gravity of fourtherapy (FAIC) that the provide a biset is rearranged by beproving or gravity and immunotherapy(7). This innovative approach aims to

bolster surgical conversion rates and achieve more favorable objective responses by harnessing synergistic effects. While data on combination immunotherapy for downstaging and conversion to surgery remain limited and require further research, these breakthroughs herald a new era in HCC treatment. They offer fresh opportunities and improved outcomes for patients with advanced disease, holding the promise of a brighter future for individuals who were once considered untreatable.

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- 5. 6.
- Kudo M. A New Treatment Option for Interinediate-Stage Displacement of a Science and Scien 7. Surg Nutr. 2021;10(2):180-92.

Curriculum Vitae



Su Jong Yu

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Educational Background

- 1. Doctor of Medicine, College of Medicine, Dept. of Medicine, Seoul National University (March 1, 1997 - February 26, 2001)
- 2. Master of Science in Medicine, Graduate School, Seoul National University (March 1, 2004 - February 24, 2006)
- 3. Doctor of Philosophy in Medical Science, Graduate School, Seoul National University (March 1, 2010 -February 24, 2012)

Professional Experience

- 1) Clinical Professor, Department of Internal Medicine & Liver Research Institute, SNU College of Medicine (2011.03 ~ Present)
- 2) Visiting Scientist, NCI, NIH (Bethesda, MD, USA) (2016 ~ 2018)
- 3) Seoul National University College of Medicine, Doctor of Medicine (2010 ~ 2012)
- 4) Seoul National University College of Medicine, Master of Medicine (2004 ~ 2006)
- 5) Seoul National University College of Medicine, Bachelor of Medicine (1997 ~ 2001)

Other Experience and Professional Memberships

- 1) Academy Affairs Director, KLCA (2022.07 ~ Present)
- 2) Associate Editor, Gut and Liver (2021.12 ~ Present)
- 3) Vice Secretary General & Director of the Liaison Committee, KASL (2019.12 ~ 2021.12)

JKT4-3 Proton Therapy for Hepatocellular Carcinoma

Huang Bing-Shen

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Hepatocellular carcinoma (HCC) is one of the most common cancers in the world. Most HCC patients have impaired liver function because of hepatitis or liver cirrhosis, and only approximately 20-40% of patients are candidates for resection. Maximal preservation of normal liver volume and function is an important consideration in the choice of treatment.

Proton beam therapy (PBT) for HCC treatment has been applied for decades, and many clinical results have shown excellent 3-year to 5-year local control (LC) rate ranging from 85-95% and nearly no major complications.

From 2015 to 2023, more than 6000 patients were treated with PBT at Chang-Gung Memorial Hospital. More than a quarter of patients have liver cancers. The PBT was considered in the patients that were not suitable for surgery or radiofrequency (RFA) and discussed in the multidisciplinary conference. The PBT dose were 72.6CGE/22fx and 66CGE/10fx, depending on tumor location. The largest tumor diameter was more than 5 cm, and more than 30% of tumors are larger than 10 cm in diameter. More than 40% were major tumor vascular invasion. The in-field control rate was was more than 90%.

According to previous clinical results and our experiences, PBT can be a good alternative treatment for patients unsuitable for surgery.

Curriculum Vitae



JKT4-1-RS1 Importance of preclinical rationales to establish appropriate treatment sequences in the era of chemo-diversity for HCC

Hideki Iwamoto, Koga Hironori, Kawaguchi Takumi

Division of Gastroenterology, Department of Medicine, Kurume University School of Medicine, Japan

Introduction

Nowadays, we have multiple lines of systemic therapy for hepatocellular carcinoma (HCC). We also have multiple conventional locoregional treatments. In the era of chemo-diversity, we face a new unmet medical need of difficulty in tailoring appropriate treatment sequences. In this point of view, the balance between preclinical rationale and clinical relevance is important to find appropriate treatment sequences. The purpose of this study is to accumulate preclinical rationales to establish appropriate treatment sequences by clarifying the change of tumor immune microenvironment (TIME) and molecular patterns in approved molecular targeted agents (MTA) and locoregional treatment, hepatic arterial infusion chemotherapy (HAIC) using cisplatin and 5-fluorouracil.

We established immune syngeneic orthotopic HCC mouse models and treated them with each approved MTA (sorafenib, lenvatinib, regorafenib, ramucirumab, and cabozantinib) to evaluate the change of TIME in each drug. We also compared the therapeutic effects of atezolizumab plus bevacizumab (AB) with and without the pretreatment of HAIC. Moreover, we evaluated the influence of HAIC on HCC using the resected specimens in clinical samples.

Results

All MTAs commonly reduced infiltration of regulatory T cells and macrophages, which suggested that these changes were induced by the inhibition of VEGF signaling. Cabozantinib particularly induced the infiltration of dendritic cells, and lenvatinib significantly increased the infiltration of cytotoxic T cells and granzyme B-positive cells, which suggested that TIME has altered to a "hot" environment. To clarify why lenvatinib altered the TIME to "hot", experiments using a pan-FGF receptor inhibitor were conducted. The FGF receptor inhibitor also increased the infiltration of cytotoxic T cells and granzyme B-positive cells. Taken together, these results suggest that inhibition of the FGF signal is important to the alteration of TIME to "hot".

The therapeutic response (objective response rate: with or w/o pretreatment HAIC; 60.8% v.s. 29.7%, p<0.001), progression-free survival (median; 5.5 months v.s., 5.2 months, p<0.05), and overall survival (median; 12.7 months v.s. 9.9 months, p<0.05) of patients treated with AB were superior in the pretreatment HAIC group. The expression of PD-L1 was significantly increased in HCC specimens treated with HAIC before hepatic resection. Cisplatin and 5-fluorouracil directly induced the expression of PD-L1 in human hepatoma cell lines.

Conclusions

Lenvatinib had promising effects to alter TIME to an immune "hot" environment and HAIC might have another role as a neo-adjuvant treatment to enhance the therapeutic effects of treatments using immune checkpoint inhibitors.

Accumulation of preclinical rationales leads to establishing appropriate sequential treatments in the era of chemo-diversity for HCC.

Curriculum Vitae



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[JKT4-1-RS2] Tailoring multiple lines of systemic therapy for advanced HCC

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The management of hepatocellular carcinoma (HCC) has been transformed by the emergence of multitargeted kinase inhibitors (TKIs) and immune checkpoint inhibitors (ICI). Recently conducted phase III trials have shown that combination therapy, which includes ICI, has surpassed sorafenib as the primary treatment choice for advanced HCC. This shift is due to the higher response rate and improved survival benefits offered by combination therapy. Currently, as the first line treatment for the advanced HCC patients atezolizumab and bevacizumab combinations or tremelimumab and durvalumab combination are recommended. For those who are not feasible to those immune check inhibitor combinations, such as underlying moderate to severe autoimmune disease or HCC recurrence after liver transplantation, TKIs such as lenvatinib or sorafenib are recommended as alternative first line options. So far, there is only evidence for second line treatment after sorafenib treatment including regorafenib, nivolumab plus ipilimumab, or pembrolizumab. The development of multiple lines of systemic therapy might lead to improving overall survival and quality of life for patients with advanced HCC. However, determining the optimal sequencing and tailoring of these therapies remains a complex task due to the heterogeneity of the disease and the limited understanding of individual patient characteristics that drive treatment responses. Examining a comprehensive set of clinical, molecular, and genetic factors might be needed to identify predictive biomarkers and treatment response indicators that can guide personalized therapeutic approaches. These approaches will provide insights into the evolving landscape of HCC treatment and contribute to the development of evidence-based guidelines for tailoring therapy in advanced HCC, which might shed light on the potential of targeted therapies, immunotherapies, and combination regimens in the management of advanced HCC.

Curriculum Vitae



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JKT4-1-RS3 Role of liver-directed therapy for advanced hepatocellular carcinoma in the era of combination immunotherapy

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Surgery remains the primary method for curing hepatocellular carcinoma (HCC), although determining resectability is a complex issue that depends on tumor factors and the remnant liver function. It is estimated that approximately 60-70% of HCC cases are considered unresectable at the time of diagnosis. In unresectable HCC, systemic therapies such as multikinase inhibitors and immune checkpoint inhibitors (ICIs) are currently the standard treatment, but they primarily provide disease control rather than a cure.

Liver-directed therapy (LDT) can offer potential benefits to patients with advanced HCC in various scenarios. Firstly, the combination of LDT with ICIs may lead to a synergistic effect through the stimulation of systemic immune response by releasing neoantigens into the bloodstream and augmenting the proliferation of tumor-specific T cells. Several pilot studies had demonstrated promising results using the combination of ICIs and LDT, including ablation, Y90-radioembolization, hepatic arterial infusion chemotherapy, transarterial chemoembolization and stereotactic body radiation theray in unresectable HCC.

Combination immunotherapy has shown promising results with higher objective response rates, including anti-VEGF plus ICIs, multikinase inhibitors plus ICIs, or dual ICIs. Following the successful combination ICI treatment, which results in significant tumor shrinkage, applying LDT to the remaining lesion offers the opportunity for cure even in advanced HCC cases.

As combination ICIs have resulted in significantly higher tumor responses, several studies have investigated their application in the neoadjuvant setting, and the results are very promising. Of note, a proportion of patients achieved complete pathological responses after neoadjuvant ICIs, which raises a new question regarding the necessity of adding LDT in such exceptional responders.

In summary, current evidence highlights the importance of combination immunotherapy and LDT in improving treatment outcomes and potentially offering a chance of cure for advanced HCC patients.

Curriculum Vitae



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Dr. Su completed his medical education at the School of Medicine, Kaohsiung Medical University, in 2012. He subsequently obtained board certifications in internal medicine in 2017 and oncology in 2019. Currently, Dr. Su holds the position of Assistant Investigator at the National Health Research Institutes and serves as a visiting staff physician at the Department of Oncology in the National Cheng Kung University Hospital.

Dr. Su's primary research focus lies in the field of clinical and translational research pertaining to the development of new drugs and clinical trials for hepatobiliary and pancreatic cancers. Additionally, he actively participates in real-world data manipulation and employs next-generation sequencing techniques, such as whole exome sequencing, cell-free DNA analysis, whole transcriptome sequencing, single-cell RNA sequencing, and metagenomics. In recognition of his research contributions, Dr. Su has been honored with prestigious awards, including the Japanese Society of Medical Oncology (JSMO) Young Investigator Award in 2022 and 2023, the JSMO-Rising Stars in Asia workshop Award in 2023, and the Taiwan Joint Cancer Conference (TJCC) Best Poster Award in 2022 and 2023.

Dr. Su takes on additional roles within the medical community, serving as the executive secretary of the Taiwan Liver Cancer Association (TLCA) Research Group, the chief staff of the core measure development committees for pancreatic cancer under the Ministry of Health and Welfare in Taiwan, and the executive secretary of the consensus development committees in pancreatic cancer within the Taiwan Pancreas Society. Throughout his career, Dr. Su has published over 20 articles in esteemed peer-reviewed journals, including the International Journal of Surgery, Gastrointestinal Endoscopy, and the British Journal of Cancer.

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