

Stanford



Joo Ha Hwang

Professor of Medicine (Gastroenterology and Hepatology) at the Stanford University Medical Center

Medicine - Gastroenterology & Hepatology

CLINICAL OFFICES

- **Stanford Gastroenterology and Digestive Health Clinic**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Hwang specializes in early detection of gastrointestinal malignancies including esophageal cancer, gastric (stomach) cancer, pancreatic cancer, bile duct cancer and colon cancer. Dr. Hwang performs advanced endoscopic procedures including EUS-FNA, ERCP and enteroscopy. In addition, Dr. Hwang also performs per-oral endoscopic myotomy (POEM), endoscopic mucosal resection (EMR) to resect large colorectal polyps, and endoscopic submucosal dissection (ESD) to resect early esophageal, gastric, and colorectal cancers.

Dr. Hwang received his bachelor's degree from the University of Illinois at Champaign-Urbana in electrical engineering. He then received his M.D. degree from the University of Chicago and his Ph.D. in bioengineering from the University of Washington. He did his residency in internal medicine and fellowship in gastroenterology at the University of Washington and was a faculty member at the University of Washington from 2004 to 2017. He has been selected as one of "Seattle's Top Doctors" by both Seattle Magazine and Seattle Metropolitan Magazine.

Dr. Hwang is board certified in gastroenterology. He is active with local, national and international professional societies. He is a fellow of the American Society of Gastrointestinal Endoscopy (FASGE) and is a past-president of the Pacific Northwest Gastroenterology Society.

In addition to his clinical activities, Dr. Hwang is interested in medical device innovation. Dr. Hwang actively participates in research related to treatment of pancreatic cancer with focused ultrasound. He currently has NIH funding to investigate the use of focused ultrasound for enhancing drug delivery to pancreatic tumors. He is the current president of the International Society for Therapeutic Ultrasound (ISTU).

CLINICAL FOCUS

- Gastroenterology

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Medicine - Gastroenterology & Hepatology

ADMINISTRATIVE APPOINTMENTS

- Director, Gastrointestinal Malignancies, CARE, Stanford University, (2019- present)
- Director, Korea Outreach, CARE, Stanford University, (2019- present)
- Director, Interventional Gastroenterology and Innovation, Stanford University, (2018- present)
- Director, Inpatient Gastroenterology Services, Stanford Health Care, (2018- present)

HONORS AND AWARDS

- Top Doctor, Seattle Metropolitan Magazine (2014, 2015, 2016)
- Fredric Lizzi Award, International Society for Therapeutic Ultrasound (2014)
- Fellow, American Society for Gastrointestinal Endoscopy (2011)
- Career Development Award, American Society for Gastrointestinal Endoscopy (2004)
- Young Investigator Award, International Society for Therapeutic Ultrasound (2004)
- Research Fellowship Award, American Cancer Society (1996)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Asian American Stomach Cancer Disparity Task Force (2018 - present)
- President, International Society for Therapeutic Ultrasound (2018 - present)
- Committee Member, Center for GI Innovation and Technology, AGA Institute (2018 - present)
- Editorial Review Board, Gastrointestinal Endoscopy, American Society for Gastrointestinal Endoscopy (2016 - present)
- Board of Directors, International Society for Therapeutic Ultrasound (2016 - 2018)
- Board of Directors, Pacific Northwest Gastroenterology Society (2013 - 2017)
- Councilor, Imaging and Advanced Technology Section, American Gastroenterological Association (2014 - present)
- President, Pacific Northwest Gastroenterology Society (2011 - 2013)
- Member, American Gastroenterological Association (2011 - present)
- Secretary General, International Society for Therapeutic Ultrasound (2010 - 2012)
- Board of Directors, International Society for Therapeutic Ultrasound (2008 - 2012)
- Member, International Society for Therapeutic Ultrasound (2002 - present)
- Fellow, American Society for Gastrointestinal Endoscopy (2011 - present)
- Member, American Society for Gastrointestinal Endoscopy (2000 - 2011)

PROFESSIONAL EDUCATION

- Medical Education: Pritzker School of Medicine University of Chicago Registrar (1997) IL
- Board Certification: Gastroenterology, American Board of Internal Medicine (2005)
- Fellowship: University of Washington School of Medicine (2004) WA
- MD, University of Chicago - Pritzker School of Medicine , Medicine (1997)
- Fellowship: University of Washington School of Medicine (2003) WA
- Internship, University of Washington School of Medicine , Internal Medicine (1998)
- Residency: University of Washington School of Medicine (2000) WA
- Residency, University of Washington School of Medicine , Internal Medicine (2000)
- Fellowship, University of Washington School of Medicine , Gastroenterology (2004)
- PhD, University of Washington , Bioengineering (2005)

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Gwansuk Kang, Nicole Kwon

Postdoctoral Research Mentor

Gwansuk Kang, Nicole Kwon

Publications

PUBLICATIONS

- **Current Status of EUS in Gastrointestinal Subepithelial Tumors.** *Clinical endoscopy*
Kim, S. G., Song, J. H., Hwang, J. H.
2019
- **Gastric per-oral endoscopic myotomy: Current status and future directions** *WORLD JOURNAL OF GASTROENTEROLOGY*
Podboy, A., Hwang, J., Nguyen, L. A., Garcia, P., Zikos, T. A., Kamal, A., Triadafilopoulos, G., Clarke, J. O.
2019; 25 (21): 2581–90
- **ENDOSCOPIC SUBMUCOSAL DISSECTION FOR GASTRIC NEOPLASIA: A LARGE MULTICENTER STUDY FROM NORTH AMERICA**
Ngamruengphong, S., Ferri, L. E., Aihara, H., Draganov, P. V., Yang, D., Perbtani, Y. B., Hanada, Y., Song, L., Kumta, N. A., Othman, M. O., Mercado, M. O., Javaid, H., Aadam, et al
MOSBY-ELSEVIER.2019: AB102–AB103
- **PER-ORAL ENDOSCOPIC MYOTOMY HAS SIMILAR EFFICACY COMPARED TO LAPAROSCOPIC HELLER MYOTOMY AFTER 4 YEARS: A SINGLE CENTER EXPERIENCE**
Podboy, A. J., Hwang, J., Rivas, H., Azagury, D., Hawn, M. T., Kamal, A., Triadafilopoulos, G., Zikos, T., Clarke, J. O.
MOSBY-ELSEVIER.2019: AB201–AB202
- **OUTCOMES OF ENDOSCOPIC SUBMUCOSAL DISSECTION VERSUS SURGERY IN EARLY GASTRIC CANCER MEETING STANDARD AND EXPANDED INDICATIONS: A MULTICENTER NORTH AMERICAN COHORT**
Kerdsirichairat, T., Wang, R., Aihara, H., Draganov, P. V., Kumta, N. A., Tomizawa, Y., Truong, C. D., Lo, S. K., Jamil, L. H., Gaddam, S., Burch, M., Dhall, D., Perbtani, et al
MOSBY-ELSEVIER.2019: AB350–AB351
- **PROPHYLACTIC ENDOSCOPIC CLOSURE DOES NOT REDUCE ADVERSE EVENTS FOLLOWING ENDOSCOPIC SUBMUCOSAL DISSECTION: A CASE-MATCHED MULTICENTER STUDY**
Mehta, A., Ngamruengphong, S., Hajifathalian, K., Shah, S. L., Dawod, E., Ferri, L. E., Aihara, H., Song, L., Hanada, Y., Kumta, N. A., Aadam, A., Siegel, A. B., James, et al
MOSBY-ELSEVIER.2019: AB97
- **A Chance to Cut Is a Chance to Cure: Endoscopic Submucosal Dissection for Early Gastric Cancer** *DIGESTIVE DISEASES AND SCIENCES*
Huang, R. J., Charville, G. W., Hwang, J., Friedland, S.
2019; 64 (5): 1129–32
- **How to decrease the risk of perforation in endoscopic submucosal dissection (ESD)** *TECHNIQUES IN GASTROINTESTINAL ENDOSCOPY*
Kim, S., Hwang, J.
2019; 21 (2): 99–103
- **Gastric per-oral endoscopic myotomy: Current status and future directions.** *World journal of gastroenterology*
Podboy, A., Hwang, J. H., Nguyen, L. A., Garcia, P., Zikos, T. A., Kamal, A., Triadafilopoulos, G., Clarke, J. O.
2019; 25 (21): 2581–90
- **Boiling Histotripsy Ablation of Renal Cell Carcinoma in the Eker Rat Promotes a Systemic Inflammatory Response.** *Ultrasound in medicine & biology*
Schade, G. R., Wang, Y. N., D'Andrea, S., Hwang, J. H., Liles, W. C., Khokhlova, T. D.
2019; 45 (1): 137–47

- **GIE Editorial Board top 10 topics: advances in GI endoscopy in 2018.** *Gastrointestinal endoscopy*
Cohen, J., Desilets, D. J., Hwang, J. H., Kyanam Kabir Baig, K. R., Leung, F. W., Maranki, J. L., Okolo, P. I., Swanstrom, L. L., Chak, A.
2019
- **Routine gastric biopsies: Should we be doing more?** *Gastrointestinal endoscopy*
Huang, R. J., Hwang, J. H.
2019; 89 (6): 1150–51
- **Efficacy of a novel endoscopically deliverable muco-adhesive hemostatic powder in an acute gastric bleeding porcine model.** *PloS one*
Bang, B., Lee, E., Maeng, J., Kim, K., Hwang, J. H., Hyon, S. H., Hyon, W., Lee, D. H.
2019; 14 (6): e0216829
- **Low Frequency of Lymph Node Metastases in Patients in the United States With Early-stage Gastric Cancers That Fulfill Japanese Endoscopic Resection Criteria.** *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*
Hanada, Y., Choi, A. Y., Hwang, J. H., Draganov, P. V., Khanna, L., Sethi, A., Bartel, M. J., Goel, N., Abe, S., De Latour, R. A., Park, K., Melis, M., Newman, et al
2018
- **Double-Balloon Assisted Sigmoid Colon Complex EMR**
Sharma, S., Hwang, J.
NATURE PUBLISHING GROUP.2018: S1626
- **ENDOSCOPIC SUBMUCOSAL DISSECTION (ESD) AS A SALVAGE THERAPY FOR PATIENTS WITH RECURRENCE OR PROGRESSION OF BARRETT'S ESOPHAGUS (BE) RELATED EARLY NEOPLASIA AFTER STANDARD ENDOSCOPIC MANAGEMENT IS FEASIBLE AND SAFE : A US MULTI-CENTER STUDY**
Tomizawa, Y., Friedland, S., Hwang, J.
MOSBY-ELSEVIER.2018: AB281–AB282
- **A Chance to Cut Is a Chance to Cure: Endoscopic Submucosal Dissection for Early Gastric Cancer.** *Digestive diseases and sciences*
Huang, R. J., Charville, G. W., Hwang, J. H., Friedland, S.
2018
- **Hyperthermia-enhanced targeted drug delivery using magnetic resonance-guided focussed ultrasound: a pre-clinical study in a genetic model of pancreatic cancer.** *International journal of hyperthermia : the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group*
Farr, N., Wang, Y. N., D'Andrea, S., Starr, F., Partanen, A., Gravelle, K. M., McCune, J. S., Risler, L. J., Whang, S. G., Chang, A., Hingorani, S. R., Lee, D., Hwang, et al
2018; 34 (3): 284–91
- **Guidelines for sedation and anesthesia in GI endoscopy.** *Gastrointestinal endoscopy*
Early, D. S., Lightdale, J. R., Vargo, J. J., Acosta, R. D., Chandrasekhara, V., Chathadi, K. V., Evans, J. A., Fisher, D. A., Fonkalsrud, L., Hwang, J. H., Khashab, M. A., Muthusamy, V. R., Pasha, et al
2018; 87 (2): 327–37
- **Gastrointestinal Endoscopy Editorial Board top 10 topics: advances in GI endoscopy in 2017.** *Gastrointestinal endoscopy*
Desilets, D. J., Hwang, J. H., Kyanam Kabir Baig, K. R., Leung, F. W., Maranki, J. L., Mishra, G., Shah, R. J., Swanstrom, L. L., Chak, A.
2018; 88 (1): 1–8
- **Evaluation of pancreatic tumor development in KPC mice using multi-parametric MRI.** *Cancer imaging : the official publication of the International Cancer Imaging Society*
Vohra, R., Park, J., Wang, Y. N., Gravelle, K., Whang, S., Hwang, J. H., Lee, D.
2018; 18 (1): 41
- **Understanding Gastric Cancer Risk Factors: We Need to Close the Gap** *GUT AND LIVER*
Hwang, J.
2018; 12 (1): 1–2
- **Objective Differences in Colonoscopy Technique Between Trainee and Expert Endoscopists Using the Colonoscopy Force Monitor.** *Digestive diseases and sciences*
Ende, A. R., De Groen, P., Balmadrid, B. L., Hwang, J. H., Inadomi, J., Wojtera, T., Egorov, V., Sarvazyan, N., Korman, L.
2018; 63 (1): 46–52

- **Noninvasive characterization of pancreatic tumor mouse models using magnetic resonance imaging** *CANCER MEDICINE*
Farr, N., Wang, Y., D'Andrea, S., Gravelle, K. M., Hwang, J. H., Lee, D.
2017; 6 (5): 1082-1090
- **Release of Cell-free MicroRNA Tumor Biomarkers into the Blood Circulation with Pulsed Focused Ultrasound: A Noninvasive, Anatomically Localized, Molecular Liquid Biopsy.** *Radiology*
Chevillet, J. R., Khokhlova, T. D., Giraldez, M. D., Schade, G. R., Starr, F., Wang, Y., Gallichotte, E. N., Wang, K., Hwang, J. H., Tewari, M.
2017; 283 (1): 158-167
- **A meta-analysis of palliative treatment of pancreatic cancer with high intensity focused ultrasound.** *Journal of therapeutic ultrasound*
Dababou, S., Marrocchio, C., Rosenberg, J., Bitton, R., Pauly, K. B., Napoli, A., Hwang, J. H., Ghanouni, P.
2017; 5: 9-?
- **EUS and related technologies for the diagnosis and treatment of pancreatic disease: research gaps and opportunities-Summary of a National Institute of Diabetes and Digestive and Kidney Diseases workshop.** *Gastrointestinal endoscopy*
Lee, L. S., Andersen, D. K., Ashida, R., Brugge, W. R., Canto, M. I., Chang, K. J., Chari, S. T., DeWitt, J., Hwang, J. H., Khashab, M. A., Kim, K., Levy, M. J., McGrath, et al
2017; 86 (5): 768-78
- **Focused ultrasound for immuno-adjuvant treatment of pancreatic cancer: An emerging clinical paradigm in the era of personalized oncotherapy.** *International reviews of immunology*
Maloney, E., Khokhlova, T., Pillarisetty, V. G., Schade, G. R., Repasky, E. A., Wang, Y. N., Giuliani, L., Primavera, M., Hwang, J. H.
2017; 36 (6): 338-51
- **Association of gastric intestinal metaplasia and East Asian ethnicity with the risk of gastric adenocarcinoma in a U.S. population.** *Gastrointestinal endoscopy*
Choi, A. Y., Strate, L. L., Fix, M. C., Schmidt, R. A., Ende, A. R., Yeh, M. M., Inadomi, J. M., Hwang, J. H.
2017
- **The impact of medical tourism on colorectal screening among Korean Americans: A community-based cross-sectional study** *BMC CANCER*
Ko, L. K., Taylor, V. M., Yoon, J., Copeland, W. K., Hwang, J. H., Lee, E. J., Inadomi, J.
2016; 16
- **Screening and surveillance for gastric cancer in the United States: Is it needed?** *GASTROINTESTINAL ENDOSCOPY*
Kim, G. H., Liang, P. S., Bang, S. J., Hwang, J. H.
2016; 84 (1): 18-28
- **Devices and techniques for ERCP in the surgically altered GI tract** *GASTROINTESTINAL ENDOSCOPY*
Enestvedt, B. K., Kothari, S., Pannala, R., Yang, J., Fujii-Lau, L. L., Hwang, J. H., Konda, V., Manfredi, M., Maple, J. T., Murad, F. M., Woods, K. L., Banerjee, S.
2016; 83 (6): 1061-1075
- **The use of carbon dioxide in gastrointestinal endoscopy** *GASTROINTESTINAL ENDOSCOPY*
Lo, S. K., Fujii-Lau, L. L., Enestvedt, B. K., Hwang, J. H., Konda, V., Manfredi, M. A., Maple, J. T., Murad, F. M., Pannala, R., Woods, K. L., Banerjee, S.
2016; 83 (5): 857-865
- **ENHANCEMENT OF SMALL MOLECULE DELIVERY BY PULSED HIGH-INTENSITY FOCUSED ULTRASOUND: A PARAMETER EXPLORATION** *ULTRASOUND IN MEDICINE AND BIOLOGY*
Zhou, Y., Wang, Y., Farr, N., Zia, J., Chen, H., Ko, B. M., Khokhlova, T., Li, T., Hwang, J. H.
2016; 42 (4): 956-963
- **The role of endoscopy in the evaluation and management of patients with solid pancreatic neoplasia** *GASTROINTESTINAL ENDOSCOPY*
Eloubeidi, M. A., Decker, G. A., Chandrasekhara, V., Chathadi, K. V., Early, D. S., Evans, J. A., Fanelli, R. D., Fisher, D. A., Foley, K., Hwang, J. H., Jue, T. L., Lightdale, J. R., Pasha, et al
2016; 83 (1): 17-28
- **HIFU for Palliative Treatment of Pancreatic Cancer** *THERAPEUTIC ULTRASOUND*
Khokhlova, T. D., Hwang, J. H.
2016; 880: 83-95
- **Endoscopic electronic medical record systems** *GASTROINTESTINAL ENDOSCOPY*

- Manfredi, M. A., Manfredi, M. A., Chauhan, S. S., Enestvedt, B. K., Fujii-Lau, L. L., Konda, V., Hwang, J. H., Lo, S. K., Maple, J. T., Murad, F. M., Pannala, R., Woods, K. L., Banerjee, et al
2016; 83 (1): 29-36
- **The management of antithrombotic agents for patients undergoing GI endoscopy** *GASTROINTESTINAL ENDOSCOPY*
Acosta, R. D., Abraham, N. S., Chandrasekhara, V., Chathadi, K. V., Early, D. S., Eloubeidi, M. A., Evans, J. A., Faulx, A. L., Fisher, D. A., Fonkalsrud, L., Hwang, J. H., Khashab, M. A., Lightdale, et al
2016; 83 (1): 3-16
 - **Endoscopic resection of gastric and esophageal cancer.** *Gastroenterology report*
Balmadrid, B., Hwang, J. H.
2015; 3 (4): 330-338
 - **Therapeutic potential of ultrasound microbubbles in gastrointestinal oncology: recent advances and future prospects** *THERAPEUTIC ADVANCES IN GASTROENTEROLOGY*
Khokhlova, T. D., Haider, Y., Hwang, J. H.
2015; 8 (6): 384-394
 - **Is screening and surveillance for early detection of gastric cancer needed in Korean Americans?** *KOREAN JOURNAL OF INTERNAL MEDICINE*
Kim, G. H., Bang, S. J., Ende, A. R., Hwang, J. H.
2015; 30 (6): 747-758
 - **Pulsed High-Intensity Focused Ultrasound Enhances Delivery of Doxorubicin in a Preclinical Model of Pancreatic Cancer** *CANCER RESEARCH*
Li, T., Wang, Y., Khokhlova, T. D., D'Andrea, S., Starr, F., Chen, H., McCune, J. S., Risler, L. J., Mashadi-Hosseini, A., Hwang, J. H.
2015; 75 (18): 3738-3746
 - **Endoscopic mucosal resection** *GASTROINTESTINAL ENDOSCOPY*
Hwang, J. H., Konda, V., Abu Dayyeh, B. K., Chauhan, S. S., Enestvedt, B. K., Fujii-Lau, L. L., Komanduri, S., Maple, J. T., Murad, F. M., Pannala, R., Thosani, N. C., Banerjee, S.
2015; 82 (2): 215-226
 - **The role of endoscopy in benign pancreatic disease** *GASTROINTESTINAL ENDOSCOPY*
Chandrasekhara, V., Chathadi, K. V., Acosta, R. D., Decker, G. A., Early, D. S., Eloubeidi, M. A., Evans, J. A., Faulx, A. L., Fanelli, R. D., Fisher, D. A., Foley, K., Fonkalsrud, L., Hwang, et al
2015; 82 (2): 203-214
 - **The role of endoscopy in the management of premalignant and malignant conditions of the stomach** *GASTROINTESTINAL ENDOSCOPY*
Evans, J. A., Chandrasekhara, V., Chathadi, K. V., Decker, G. A., Early, D. S., Fisher, D. A., Foley, K., Hwang, J. H., Jue, T. L., Lightdale, J. R., Pasha, S. F., Sharaf, R., Shergill, et al
2015; 82 (1): 1-8
 - **Endoscopic submucosal dissection** *GASTROINTESTINAL ENDOSCOPY*
Maple, J. T., Abu Dayyeh, B. K., Chauhan, S. S., Hwang, J. H., Komanduri, S., Manfredi, M., Konda, V., Murad, F. M., Siddiqui, U. D., Banerjee, S.
2015; 81 (6): 1311-1325
 - **Learning models for endoscopic ultrasonography in gastrointestinal endoscopy** *WORLD JOURNAL OF GASTROENTEROLOGY*
Kim, G. H., Bang, S. J., Hwang, J. H.
2015; 21 (17): 5176-5182
 - **Emerging HIFU applications in cancer therapy** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
Maloney, E., Hwang, J. H.
2015; 31 (3): 302-309
 - **The role of endoscopy in inflammatory bowel disease** *GASTROINTESTINAL ENDOSCOPY*
Shergill, A. K., Lightdale, J. R., Bruining, D. H., Acosta, R. D., Chandrasekhara, V., Chathadi, K. V., Decker, G. A., Early, D. S., Evans, J. A., Fanelli, R. D., Fisher, D. A., Fonkalsrud, L., Foley, et al
2015; 81 (5): 1101-U389
 - **Endoscopes and devices to improve colon polyp detection** *GASTROINTESTINAL ENDOSCOPY*
Konda, V., Chauhan, S. S., Abu Dayyeh, B. K., Hwang, J. H., Komanduri, S., Manfredi, M. A., Maple, J. T., Murad, F. M., Siddiqui, U. D., Banerjee, S.
2015; 81 (5): 1122-1129

- **Endoscopic high-intensity focused US: technical aspects and studies in an in vivo porcine model (with video)** *GASTROINTESTINAL ENDOSCOPY*
Li, T., Khokhlova, T., Maloney, E., Wang, Y., D'Andrea, S., Starr, F., Farr, N., Morrison, K., Keilman, G., Hwang, J. H.
2015; 81 (5): 1243-1250
- **American Gastroenterological Association Technical Review on the Diagnosis and Management of Asymptomatic Neoplastic Pancreatic Cysts** *GASTROENTEROLOGY*
Scheiman, J. M., Hwang, J. H., Moayyedi, P.
2015; 148 (4): 824-U283
- **Bowel preparation before colonoscopy** *GASTROINTESTINAL ENDOSCOPY*
Saltzman, J. R., Cash, B. D., Pasha, S. F., Early, D. S., Muthusamy, V. R., Khashab, M. A., Chathadi, K. V., Fanelli, R. D., Chandrasekhara, V., Lightdale, J. R., Fonkalsrud, L., Shergill, A. K., Hwang, et al
2015; 81 (4): 781-794
- **The role of ERCP in benign diseases of the biliary tract** *GASTROINTESTINAL ENDOSCOPY*
Chathadi, K. V., Chandrasekhara, V., Acosta, R. D., Decker, G. A., Early, D. S., Eloubeidi, M. A., Evans, J. A., Faulx, A. L., Fanelli, R. D., Fisher, D. A., Foley, K., Fonkalsrud, L., Hwang, et al
2015; 81 (4): 795-803
- **ASGE Technology Committee systematic review and meta-analysis assessing the ASGE PIVI thresholds for adopting real-time endoscopic assessment of the histology of diminutive colorectal polyps.** *Gastrointestinal endoscopy*
Abu Dayyeh, B. K., Thosani, N., Konda, V., Wallace, M. B., Rex, D. K., Chauhan, S. S., Hwang, J. H., Komanduri, S., Manfredi, M., Maple, J. T., Murad, F. M., Siddiqui, U. D., Banerjee, et al
2015; 81 (3): 502 e1-502 e16
- **Electronic chromoendoscopy** *GASTROINTESTINAL ENDOSCOPY*
Manfredi, M. A., Abu Dayyeh, B. K., Bhat, Y. M., Chauhan, S. S., Gottlieb, K. T., Hwang, J. H., Komanduri, S., Konda, V., Lo, S. K., Maple, J. T., Murad, F. M., Siddiqui, U. D., Wallace, et al
2015; 81 (2): 249-261
- **Confocal laser endomicroscopy** *GASTROINTESTINAL ENDOSCOPY*
Chauhan, S. S., Abu Dayyeh, B. K., Bhat, Y. M., Gottlieb, K. T., Hwang, J. H., Komanduri, S., Konda, V., Lo, S. K., Manfredi, M. A., Maple, J. T., Murad, F. M., Siddiqui, U. D., Banerjee, et al
2014; 80 (6): 928-938
- **High-definition and high-magnification endoscopes** *GASTROINTESTINAL ENDOSCOPY*
Bhat, Y. M., Abu Dayyeh, B. K., Chauhan, S. S., Gottlieb, K. T., Hwang, J. H., Komanduri, S., Konda, V., Lo, S. K., Manfredi, M. A., Maple, J. T., Murad, F. M., Siddiqui, U. D., Banerjee, et al
2014; 80 (6): 919-927
- **A New Active Cavitation Mapping Technique for Pulsed HIFU Applications-Bubble Doppler** *IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL*
Li, T., Khokhlova, T. D., Sapozhnikov, O. A., O'Donnell, M., Hwang, J. H.
2014; 61 (10): 1698-1708
- **Technologies for monitoring the quality of endoscope reprocessing** *GASTROINTESTINAL ENDOSCOPY*
Komanduri, S., Abu Dayyeh, B. K., Bhat, Y. M., Chauhan, S. S., Gottlieb, K. T., Hwang, J. H., Konda, V., Lo, S. K., Manfredi, M., Maple, J. T., Murad, F. M., Siddiqui, U. D., Wallace, et al
2014; 80 (3): 369-373
- **The role of endoscopy in the management of variceal hemorrhage** *GASTROINTESTINAL ENDOSCOPY*
Hwang, J. H., Shergill, A. K., Acosta, R. D., Chandrasekhara, V., Chathadi, K. V., Decker, G. A., Early, D. S., Evans, J. A., Fanelli, R. D., Fisher, D. A., Foley, K. Q., Fonkalsrud, L., Jue, et al
2014; 80 (2): 221-227
- **PASSIVE CAVITATION DETECTION DURING PULSED HIFU EXPOSURES OF EX VIVO TISSUES AND IN VIVO MOUSE PANCREATIC TUMORS** *ULTRASOUND IN MEDICINE AND BIOLOGY*
Li, T., Chen, H., Khokhlova, T., Wang, Y., Kreider, W., He, X., Hwang, J. H.
2014; 40 (7): 1523-1534
- **Scanning fiber endoscopy: a novel platform for cholangioscopy** *GASTROINTESTINAL ENDOSCOPY*

- Templeton, A. W., Webb, K., Hwang, J. H., Seibel, E. J., Saunders, M.
2014; 79 (6): 1000-1001
- **The role of endoscopy in the patient with lower GI bleeding** *GASTROINTESTINAL ENDOSCOPY*
Pasha, S. F., Shergill, A., Acosta, R. D., Chandrasekhara, V., Chathadi, K. V., Early, D., Evans, J. A., Fisher, D., Fonkalsrud, L., Hwang, J. H., Khashab, M. A., Lightdale, J. R., Muthusamy, et al
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