



Curriculum Vitae

Personal Information			
Title	Prof.		
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		<h3>Educational Background</h3>	
		College of Medicine, Pusan National University, MD degree (1997 – 2004) Postgraduate School of Medicine, Pusan National University, MS degree (2007 – 2009) Postgraduate School of Medicine, CHA University, PhD degree (2020 – 2022)	
		<h3>Professional Career</h3>	
Internship, Pusan National University Hospital (2004 – 2005) Residency in Internal Medicine, Pusan National University Hospital (2005 – 2009) Fellowship in Gastroenterology, Pusan National University Hospital (2013 – 2014) Fellowship in Gastroenterology, Seoul Asan Medical Center (2014 – 2015) Clinical Assistant Professor, Division of Gastroenterology, Seoul National University Hospital Healthcare System Gangnam Center (2015 – 2021) Clinical Associate Professor, Division of Gastroenterology, Seoul National University Hospital Healthcare System Gangnam Center (2021– 2023)			
<h3>Research Field</h3>			
Colonoscopy / Educational intervention of endoscopy training / Artificial intelligence / Natural language processing			
<h3>Main Scientific Publications</h3>			
1. Natural Language Processing for Information Extraction of Gastric Diseases and Its Application in Large-Scale Clinical Research. Song G, Chung SJ, Seo JY, Yang SY, Jin EH, Chung GE, Shim SR, Sa S, Hong MS, Kim KH, Jang E, Lee CW, Bae JH , Han HW. J Clin Med. 2022 May 24;11(11):2967.			
2. Colonoscopic image synthesis with generative adversarial network for enhanced detection of sessile serrated lesions using convolutional neural network. Yoon D, Kong HJ, Kim BS, Cho WS, Lee JC, Cho M, Lim MH, Yang SY, Lim SH, Lee J, Song JH, Chung GE, Choi JM, Kang HY, Bae JH , Kim S. Sci Rep. 2022 Jan 7;12(1):261.			
3. Improved Real-Time Optical Diagnosis of Colorectal Polyps Following a Comprehensive Training Program. Bae JH , Lee C, Kang HY, Kwak MS, Doo EY, Seo JY, Song JH, Yang SY, Yang JI, Lim SH, Yim JY, Lim JH, Chung GE, Chung SJ, Jin EH, Park B, Kim JS. Clin Gastroenterol Hepatol. 2019 Nov;17(12):2479-2488.e4.			
4. Natural Language Processing for Assessing Quality Indicators in Free-Text Colonoscopy and Pathology Reports:			



Development and Usability Study. **Bae JH**, Han HW, Yang SY, Song G, Sa S, Chung GE, Seo JY, Jin EH, Kim H, An D. JMIR Med Inform. 2022 Apr 15;10(4):e35257.

5. Impact of 3-second rule for high confidence assignment on the performance of endoscopists for the real-time optical diagnosis of colorectal polyps. Kim J, Lim SH, Kang HY, Song JH, Yang SY, Chung GE, Jin EH, Choi JM, **Bae JH**. Endoscopy. 2023 May 12.

6. Impact of comprehensive optical diagnosis training using Workgroup serrated polypS and Polyposis classification on detection of adenoma and sessile serrated lesion. Lee J, **Bae JH**, Chung SJ, Kang HY, Kang SJ, Kwak MS, Seo JY, Song JH, Yang SY, Yang JI, Lim SH, Yim JY, Lim JH, Chung GE, Jin EH, Choi JM, Han YM, Kim JS. Dig Endosc. 2022 Jan;34(1):180-190.

7. Improved Accuracy in Optical Diagnosis of Colorectal Polyps Using Convolutional Neural Networks with Visual Explanations. Jin EH, Lee D, **Bae JH**, Kang HY, Kwak MS, Seo JY, Yang JI, Yang SY, Lim SH, Yim JY, Lim JH, Chung GE, Chung SJ, Choi JM, Han YM, Kang SJ, Lee J, Chan Kim H, Kim JS. Gastroenterology. 2020 Jun;158(8):2169-2179.e8.

8. Association of changes in obesity and abdominal obesity status with early-onset colorectal cancer risk: a nationwide population-based cohort study. Song JH, Seo JY, Jin EH, Chung GE, Kim YS, **Bae JH**, Kim S, Han KD, Yang SY. Front Med (Lausanne). 2023 Jun 21;10:1208489.

9. Association between fatty liver index and risk of end-stage renal disease stratified by kidney function in patients with type 2 diabetes: A nationwide population-based study. Chung GE, Han K, Lee KN, **Bae JH**, Yang SY, Choi SY, Yim JY, Heo NJ. Diabetes Metab. 2023 Jul;49(4):101454.

10. Epidemiological Characterization of a Directed and Weighted Disease Network Using Data From a Cohort of One Million Patients: Network Analysis. Ko K, Lee CW, Nam S, Ahn SV, **Bae JH**, Ban CY, Yoo J, Park J, Han HW. J Med Internet Res. 2020 Apr 9;22(4):e15196.