

CURRICULUM VITAE

Eun Sun LEE, M.D.Ph.D.

- PRESENT TITLE & AFFILIATION:** Professor
Department of Radiology
Chung-Ang University Hospital,
Chung-Ang University College of Medicine
- BIRTH DATE & PLACE:** September 3, 1981
Republic of Korea
Seoul, Korea.
- CITIZENSHIP:** Republic of Korea (South Korea)
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- LICENSES:** National Medical License, Korea (#90049)
Feb 2006
Korean Board of Radiology (#2824) Feb 2011

EDUCATIONAL BACKGROUND:

GRADUATE: College of Medicine ----- M.D.
Seoul National University
March 2000-February 2006

POSTGRADUATE: Graduate School ----- M.S.
Seoul National University
March 2009- February 2011
Graduate School ----- Ph.D.
Seoul National University
March 2011- February 2013

POSTGRADUATE: **Rotating Internship**
Seoul National University Hospital
March 2006-February 2007
Radiologic Residency
Seoul National University Hospital
March 2007-February 2011

SPECIALTY BOARDS: Korean Board of Radiology (#2824) Feb 2011

ACADEMIC & PROFESSIONAL APPOINTMENT:

Instructor (Clinical Fellow) of Radiology
Seoul National University Hospital
(Mar 2011 – Feb 2013)

Clinical Assistant Professor
Seoul National University Hospital
(Mar 2013 –Feb 2014)

Specialist
National Cancer Center of Korea

(Mar 2014 – Feb 2015)

Clinical Assistant Professor
Chung-Ang University Hospital
(Mar 2015 – Feb 2016)

Assistant Professor
Chung-Ang University Hospital
(Mar 2016 – Feb 2020)

Associate Professor
Chung-Ang University Hospital
(Mar 2020 – Feb 2024)

SOCIETY MEMBERSHIP

National

Korean Society of Radiology (2007-)
Korean Society of Ultrasound in Medicine (2011 -)
Korean Society of Abdominal Radiology (2011 -)
Korean Society of Interventional Radiology (2013 -)
Korean Liver Cancer Study Group (2015-)
Korean Society of Genitourinary Radiology (2016-)

International

European Society of Radiology Corresponding member (2011 -)
Radiology Society of North America (2024-)
European Society of Gastrointestinal and Abdominal Radiology (2026-)

HONORS and AWARDS

ESGAR: Top 20 presentation (2012),

European Radiology ESGAR awards, Silver award (2018)

KSUM: Young Investigator awards, silver award (2013)

PUBLICATIONS

****Textbooks**

1. **Eun Sun Lee**, Cheong-Il Shin. Trauma and Postoperative Change of the Liver. In: B.I. Choi. Radiology Illustrated: Hepatobiliary and Pancreatic Radiology. Springer. Springer Heidelberg NewYork Dordrecht London (2014)
2. **Eun Sun Lee**, Jong Seok Lee, Benign Structural and Functional Abnormality of the Stomach and Duodenum. In: B.I. Choi. Radiology Illustrated: Gastrointestinal Tract. Springer. Springer Heidelberg New York Dordrecht London (2014)
3. **Eun Sun Lee**, Young Hoon Kim. Ultrasound Diagnosis of Alimentary and Mesenteric Disease. In: B.I. Choi. Ultrasound Diagnosis of the Abdomen. 3rd Edition. Ilchokak Seoul (2015)
4. **Eun Sun Lee**, Jae Young Lee. Therapeutic Ultrasound In: B.I. Choi. Ultrasound Diagnosis of the Abdomen. 3rd Edition. Ilchokak Seoul (2015)

**** International SCI(e) Journal Publications**

1. Lee HS, Lee MS, Lee SM, Lee SY, **Lee ES**, Lee EY, Park SY, Han JS, Kim S, Lee JS. Histological grading of IgA nephropathy predicting renal outcome: revisiting H. S. Lee's glomerular grading system. Nephrol Dial Transplant. 2005 Feb; 20(2): 342-8. Epub 2004 Dec 23.
2. **Lee ES**, Kim SH, Lee JY, Kim SJ, Kim MA, Lee JM, Han JK, Choi BI. Radiologist performance in differentiating polypoid early from advanced gastric cancer using specific CT criteria: emphasis on dimpling sign. AJR Am J Roentgenol. 2009 Dec; 193(6): 1546-55.

3. **Lee ES**, Park CM, Goo JM, Yim JJ, Kim HR, Lee HJ, Lee IS, Im JG. Computed tomography features of extensively drug-resistant pulmonary tuberculosis in non-HIV-infected patients. *J Comput Assist Tomogr.* 2010 Jul; 34(4): 559-63.
4. Choi SH, Chung JW, Kim HC, Baek JH, Park CM, Jun S, Kim MU, **Lee ES**, Cho HR, Jae HJ, Lee W, Park JH. The role of perfusion CT as a follow-up modality after transcatheter arterial chemoembolization: an experimental study in a rabbit model. *Invest Radiol.* 2010 Nov; 45(11): 754.
5. Yoon MA, Kim SH, Lee JM, Woo HS, **Lee ES**, Ahn SJ, Han JK. Adaptive statistical iterative reconstruction and Veo: assessment of image quality and diagnostic performance in CT colonography at various radiation doses. *J Comput Assist Tomogr.* 2012 Sep-Oct;36(5):596-601.
6. **Lee ES**, Lee JM, Kim WS, Choi SH, Joo I, Kim M, Yoo DH, Yoo R-E, Han JK, Choi BI. Multiple electrode radiofrequency ablations using Octopus® electrodes in an in vivo porcine liver model. *Br J Radiol.* 2012 Sep;85(1017):e609-15
7. **Lee ES**, Lee JM, Kim KW, Lee IJ, Han JK, Choi BI. Evaluation of the in vivo efficiency and safety of hepatic radiofrequency ablation using a 15-G Octopus® in pig liver. *Korean J Radiol.* 2013 Mar-Apr;14(2):194-201.
8. Yoon JH, Lee JM, Woo HS, Yu MH, Joo I, **Lee ES**, Sohn JY, Lee KB, Han JK, Choi BI. Staging of Hepatic Fibrosis: Comparison of Magnetic Resonance Elastography and Shear Wave Elastography in the Same Individuals. *Korean J Radiol.* 2013 Mar-Apr;14(2):202-212.
9. **Lee ES**, Kim JH, Na DG, Paeng JC, Min HS, Choi SH, Sohn CH, Chang KH. Hyperfunction thyroid nodules: their risk for becoming or being associated with thyroid cancers. *Korean J Radiol.* 2013 Jul;14(4):643-52.

10. **Lee ES**, Lee JY, Kim H, Choi Y, Park J, Han JK, Choi BI. Pulsed high-intensity focused ultrasound enhances apoptosis of pancreatic cancer xenograft with gemcitabine. *Ultrasound Med Biol*. 2013 Nov;39(11):1991-2000.
11. Lee YJ, Lee JM, Lee JE, Lee KB, **Lee ES**, Yoon JH, Yu MH, Baek JH, Shin CI, Han JK, Choi BI. MR elastography for noninvasive assessment of hepatic fibrosis: Reproducibility of the examination and reproducibility and repeatability of the liver stiffness value measurement *J Magn Reson Imaging*. 2014 Feb;39(2):326-31.
12. Bang SH, Lee JY, Woo H, Joo I, **Lee ES**, Han JK, Choi BI. Differentiating between Adenomyomatosis and Gallbladder Cancer: Revisiting a Comparative Study of High-Resolution Ultrasound, Multidetector CT, and MR Imaging. *Korean J Radiol*. 2014 Mar;15(2):226-34.
13. **Lee ES**, Lee JM, Yu MH, Shin CI, Woo HS, Joo I, Stemmer A, Han JK, Choi BI. High spatial resolution, respiratory-gated, t1-weighted magnetic resonance imaging of the liver and the biliary tract during the hepatobiliary phase of gadoxetic Acid-enhanced magnetic resonance imaging. *J Comput Assist Tomogr*. 2014 May-Jun;38(3):360-6.
14. Choi WS, Kim SH, **Lee ES**, Lee KB, Yoon WJ, Shin CI, Han JK. CT findings of gallbladder metastases: emphasis on differences according to primary tumors. *Korean J Radiol*. 2014 May; 15(3): 334-45.
15. **Lee ES**, Lee JM. Imaging Diagnosis of pancreatic cancer: A state-of-the-art review. *World J Gastroenterol*. 2014 Jun 28;20(24):7864-7877.
16. Yoon JH, Lee JM, Joo I, **Lee ES**, Sohn JY, Jang SK, Lee KB, Han JK, Choi BI. Hepatic fibrosis: Prospective Comparison of MR Elastography and US Shear Wave Elastography for Evaluation. *Radiology*, 2014 Dec;273(3):772-82
17. Shin CI, Kim SH, **Lee ES**, Lee DH, Hwang EJ, Chung SY, Lee JM, Han JK, Choi BI. Ultra-low Peak Voltage CT Colonography: Effect of Iterative Reconstructino

Algorithms on Performance of Radiologists Who Use Anthropomorphic Colonic Phantoms. *Radiology*, 2014 Dec;273(3):759-71

18. Kim SJ, Lee JM, **Lee ES**, Han JK, Choi BI. Preoperative staging of gallbladder carcinoma using biliary MR imaging. *J Magn Reson Imaging*. 2015 Feb;41(2):314-21
19. Yoon JH, Lee JM, **Lee ES**, Baek J, Lee S, Iwadate Y, Han JK, Choi BI. Navigated three-dimensional T1-weighted gradient-echo sequence for gadoxetic acid liver magnetic resonance imaging in patients with limited breath-holding capacity. *Abdom Imaging*. 2015 Feb;40(2):278-88
20. Kim SH, Lee JM, **Lee ES**, Baek JH, Kim JH, Han JK, Choi BI. Intraductal Papillary Mucinous Neoplasms of the Pancreas: Evaluation of Malignant Potential and Surgical Resectability by Using MR Imaging with MR Cholangiography. *Radiology*. 2015 Mar;274(3):723-33.
21. Ahn SY, Lee JM, Joo I, **Lee ES**, Lee SJ, Cheon GJ, Han JK, Choi BI. Prediction of microvascular invasion of hepatocellular carcinoma using gadoxetic acid-enhanced MR and ¹⁸F-FDG PET/CT. *Abdom Imaging*. 2015 Apr;40(4):843-51
22. **Lee ES**, Kim SH, Im JP, Kim SG, Shin CI, Han JK, Choi BI. Effect of different reconstruction algorithms on computer-aided diagnosis (CAD) performance in ultra-low dose CT colonography. *Eur J Radiol*. 2015 Apr;84(4):547-54
23. **Lee ES**, Kim JH, Joo I, Lee JY, Han JK, Choi BI. Xanthogranulomatous cholecystitis: diagnostic performance of US, CT, and MRI for differentiation from gallbladder carcinoma. *Abdom Imaging*. 2015 Oct;40(7):2281-92
24. Choi JI, Park SB, Han BH, Kim YH, Lee YH, Park HJ, **Lee ES**. Imaging features of complex solid and multicystic ovarian lesions: proposed algorithm for differential diagnosis. *Clin Imaging*. 2016 Jan-Feb;40(1):46-56
25. Kim R, Lee JM, Shin CI, **Lee ES**, Yoon JH, Joo I, Kim SH, Hwang I, Han JK, Choi

- BI. Differentiation of intrahepatic mass-forming cholangiocarcinoma from hepatocellular carcinoma on gadoxetic acid-enhanced liver MR imaging. *Eur Radiol.* 2016 Jun;26(6):1808-17.
26. Lee SE, Choi YS, Hong SU, Oh HC, **Lee ES**. Dermoid cyst of the pancreas: A rare cystic neoplasm. *Int J Surg Case Rep.* 2015;17:72-4.
27. **Lee ES**, Han JK, Baek JH, Suh SW, Joo I, Yi NJ, Lee KW, Suh KS. Long-Term Efficacy of Percutaneous Internal Plastic Stent Placement for Non-anastomotic Biliary Stenosis After Liver Transplantation. *Cardiovasc Intervent Radiol.* 2016 Jun;39(6):909-15.
28. Shin CI, Kim SH, Im JP, Kim SG, Yu MH, **Lee ES**, Han JK. One-mSv CT colonography: Effect of different iterative reconstruction algorithms on radiologists' performance. *Eur J Radiol.* 2016 Mar;85(3):641-8.
29. Park HR, Park SB, **Lee ES**, Park HJ. Sonographic evaluation of inguinal lesions. *Clin Imaging.* 2016 Sep-Oct;40(5):949-55.
30. Yoo J, Park SB, Shin M, **Lee ES**, Park HJ, Lee JB, Choi BI. Imaging features of left ovarian and renal venous aneurysms: two case reports and literature review. *Clin Imaging.* 2016 Jul-Aug;40(4):583-6.
31. Joo I, Lee JM, Lee DH, Ahn SJ, **Lee ES**, Han JK. Liver imaging reporting and data system v2014 categorization of hepatocellular carcinoma on gadoxetic acid-enhanced MRI: Comparison with multiphase multidetector computed tomography. *J Magn Reson Imaging.* 2017 Mar;45(3):731-740.
32. Joo I, Lee JM, Lee DH, **Lee ES**, Paeng JC, Lee SJ, Jang JY, Kim SW, Ryu JK, Lee KB. Preoperative Assessment of Pancreatic Cancer with FDG PET/MR Imaging versus FDG PET/CT Plus Contrast-enhanced Multidetector CT: A Prospective Preliminary Study. *Radiology.* 2017 Jan;282(1):149-159.
33. Ra JC, **Lee ES**, Lee JB, Kim JG, Kim BJ, Park HJ, Park SB, Choi BI. Diagnostic

performance of stomach CT compared with endoscopic ultrasonography in diagnosing gastric subepithelial tumors. *Abdom Radiol (NY)*. 2017 Feb;42(2):442-450.

34. Jeon SK, Lee JM, Joo I, **Lee ES**, Park HJ, Jang JY, Ryu JK, Lee KB, Han JK. Nonhypervascular Pancreatic Neuroendocrine Tumors: Differential Diagnosis from Pancreatic Ductal Adenocarcinomas at MR Imaging-Retrospective Cross-sectional Study. *Radiology*. 2017 Jul;284(1):77-87
35. Park HR, Park SB, **Lee ES**, Park HJ, Lee JB, Kim YS. Unenhanced computed tomography for normal appendix detection: comparison of low-dose with statistical iterative reconstruction and regular-dose with filtered back projection. *Clin Imaging*. 2017 May - Jun;43:117-121.
36. **Lee ES**, Lee JB, Park HR, Yoo J, Choi JI, Lee HW, Kim HJ, Choi BI, Park HJ, Park SB. Shear Wave Liver Elastography with a Propagation Map: Diagnostic Performance and Inter-Observer Correlation for Hepatic Fibrosis in Chronic Hepatitis. *Ultrasound Med Biol*. 2017 Jul;43(7):1355-1363.
37. Park HJ, Choi BI, **Lee ES**, Park SB, Lee JB. How to Differentiate Borderline Hepatic Nodules in Hepatocarcinogenesis: Emphasis on Imaging Diagnosis. *Liver Cancer*. 2017 Jun;6(3):189-203.
38. Lee MW, Park HJ, Kang TW, Ryu J, Bang WC, Lee B, **Lee ES**, Choi BI. Image Fusion of Real-Time Ultrasonography with Computed Tomography: Factors Affecting the Registration Error and Motion of Focal Hepatic Lesions. *Ultrasound Med Biol*. 2017 Sep;43(9):2024-2032.
39. Korean Society of Abdominal Radiology. Diagnosis of Hepatocellular Carcinoma with Gadoteric Acid-Enhanced MRI: 2016 Consensus Recommendations of the Korean Society of Abdominal Radiology. *Korean J Radiol*. 2017 May-Jun;18(3):427-443.

40. Joo I, Kim SH, Ahn SJ, **Lee ES**, Shin CI, Lee HJ, Yang HK. Preoperative tumor restaging and resectability assessment of gastric cancers after chemotherapy: diagnostic accuracy of MDCT using new staging criteria. *Abdom Radiol (NY)*. 2017 Dec;42(12):2807-2815
41. **Lee ES**, Kim MJ, Park SC, Hur BY, Hyun JH, Chang HJ, Baek JY, Kim SY, Kim DY, Oh JH. Magnetic Resonance Imaging-Detected Extramural Venous Invasion in Rectal Cancer before and after Preoperative Chemoradiotherapy: Diagnostic Performance and Prognostic Significance. *Eur Radiol*. 2018 Feb;28(2):496-505
42. Park HJ, Kim JH, Choi SY, **Lee ES**, Park SJ, Byun JY, Choi BI. Prediction of Therapeutic Response of Hepatocellular Carcinoma to Transcatheter Arterial Chemoembolization Based on Pretherapeutic Dynamic CT and Textural Findings. *AJR Am J Roentgenol*. 2017 Oct;209(4):W211-W220
43. Choi HW, Park HJ, Hong SA, Park SB, **Lee ES**, Ahn HS, Lee JB, Choi BI. Radiologic Findings in Extrapancreatic Solid Pseudopapillary Tumor with Aggressive Behavior: a Case Report. *J Korean Med Sci*. 2017 Dec;32(12):2079-2084.
44. Choi SL, Park SB, **Lee ES**, Park HJ, Lee JB, Choi BI. Imaging Features of Extramammary Paget Disease of the Scrotum: A Case Report. *Ultrasound Q*. 2018 Jan 5. [Epub ahead of print]
45. Kim MJ, Hur BY, **Lee ES**, Park B, Joo J, Kim MJ, Park SC, Baek JY, Chang HJ, Kim DY, Oh JH. Prediction of lateral pelvic lymph node metastasis in patients with locally advanced rectal cancer with preoperative chemoradiotherapy: Focus on MR imaging findings. *PLoS One*. 2018 Apr 12;13(4):e0195815.
46. Joo I, Lee JM, **Lee ES**, Ahn SJ, Lee DH, Kim SW, Ryu JK, Oh DY, Kim K, Lee KB, Jang JY. Preoperative MDCT Assessment of Resectability in Borderline Resectable Pancreatic Cancer: Effect of Neoadjuvant Chemoradiation Therapy. *AJR Am J Roentgenol*. 2018 May;210(5):1059-1065.

47. Cha MJ, Park HJ, Paek MY, Stemmer A, **Lee ES**, Park SB, Kim YS. Free-breathing ultrashort echo time lung magnetic resonance imaging using stack-of-spirals acquisition: A feasibility study in oncology patients. *Magn Reson Imaging*. 2018 Sep;51:137-143
48. Ra JC, **Lee ES**, Park HJ, Kim HS, Lee JB, Do JH, Park SB, Choi BI. Efficacy of Superb Microvascular Imaging for Diagnosing Acute Cholecystitis: Comparison with Conventional Ultrasonography. *Ultrasound Med Biol*. 2018 Sep;44(9):1968-1977.
49. **Lee ES**, Kim BC, Hur BY, Kim MJ, Park HJ, Park SB, Lee JB, Sohn DK, Han KS, Hong CW. Risk Factors Associated With Incomplete Colonoscopy Based on the Analysis of Computed Tomographic Colonography Findings. *Journal of Computer Assisted Tomography*. 2018 Sep/Oct;42(5):675-679.
50. Yoo J, Lee JB, Park HJ, **Lee ES**, Park SB, Kim YS, Choi BI. Classification of spontaneous isolated superior mesenteric artery dissection: correlation with multi-detector CT features and clinical presentation. *Abdom Radiol (NY)*. 2018 Nov;43(11):3157-3165.
51. Choi HW, Park HJ, Choi SY, Do JH, Yoon NY, Ko A, **Lee ES**. Early Prediction of the Severity of Acute Pancreatitis Using Radiologic and Clinical Scoring Systems with Classification Tree Analysis. *AJR Am J Roentgenol*. 2018 Nov;211(5):1035-1043.
52. Yoon JH, Lee JM, Klotz E, Woo H, Yu MH, Joo I, **Lee ES**, Han JK. Prediction of Local Tumor Progression after Radiofrequency Ablation (RFA) of Hepatocellular Carcinoma by Assessment of Ablative Margin Using Pre-RFA MRI and Post-RFA CT Registration. *Korean J Radiol*. 2018 Nov-Dec;19(6):1053-1065.
53. Nam JG, Lee JM, Lee SM, Kang HJ, **Lee ES**, Hur BY, Yoon JH, Kim E, Doneva M. High Acceleration Three-Dimensional T1-Weighted Dual Echo Dixon Hepatobiliary Phase Imaging Using Compressed Sensing-Sensitivity Encoding: Comparison of

Image Quality and Solid Lesion Detectability with the Standard T1-Weighted Sequence. Korean J Radiol. 2019 Mar;20(3):438-448.

54. **Lee ES**, Kim JH, Yu MH, Choi SY, Kang HJ, Park HJ, Park YS, Byun JH, Shin SS, Lee CH; Korean Society of Abdominal Radiology. Diagnosis and Surveillance of Incidental Pancreatic Cystic Lesions: 2017 Consensus Recommendations of the Korean Society of Abdominal Radiology. Korean J Radiol. 2019 Apr;20(4):542-557.
55. Choi KW, Park BK, Suh SW, **Lee ES**, Lee SE, Park JM, Choi YS, Kim BG, Park YG. Risk factors for additional port insertion in single-port laparoscopic appendectomy. Wideochir Inne Tech Maloinwazyjne. 2019 Apr;14(2):223-228.
56. Jeong S, Park SB, Lee EJ, Kim MK, Choi SL, Park HJ, **Lee ES**. Primary neoplasms of the uterus simultaneously presenting as neuroendocrine carcinoma of the cervix and adenosquamous carcinoma of the endometrium: a case report. J Obstet Gynaecol. 2019 Aug;39(6):877-878.
57. Oh J, Park SB, Park HJ, **Lee ES**. Ultrasound Features of Uterine Sarcomas. Ultrasound Q. 2019 Dec;35(4):376-384.
58. Park HJ, Kim YK, Min JH, Lee J, Lee SJ, **Lee ES**, Ahn S. Differentiation of hypervascular primary hepatic tumors showing hepatobiliary hypointensity on gadoteric acid-enhanced magnetic resonance imaging. Abdom Radiol (NY). 2019 Sep;44(9):3115-3126.
59. Joo I, Kim SY, Park HS, **Lee ES**, Kang HJ, Lee JM. Validation of a New Point Shear-Wave Elastography Method for Noninvasive Assessment of Liver Fibrosis: A Prospective Multicenter Study. Korean J Radiol. 2019 Nov;20(11):1527-1535
60. Choi SL, **Lee ES**, Ko A, Park HJ, Park SB, Choi BI, Cho YY, Kannengiesser S. Technical success rates and reliability of spin-echo echo-planar imaging (SE-EPI) MR elastography in patients with chronic liver disease or liver cirrhosis. Eur Radiol. 2020 Mar;30(3):1730-1737.

61. Yoon JH, Chang W, **Lee ES**, Lee SM, Lee JM. Double Low-Dose Dual-Energy Liver CT in Patients at High-Risk of HCC: A Prospective, Randomized, Single-Center Study. *Invest Radiol.* 2020 Jun;55(6):340-348.
62. Ko A, **Lee ES**, Park HJ, Park SB, Kim HS, Choi BI. Added value of 2D shear wave imaging of the gallbladder bed of the liver for acute cholecystitis. *Ultrasonography.* 2020 Oct;39(4):384-393.
63. Oh J, Park SB, Han BH, Kim HS, **Lee ES**, Park HJ. Imaging Features of Carcinosarcoma Arising from Adenofibroma of the Uterus: A Case Report. *Curr Med Imaging.* 2020;16(8):1048-1051
64. Ko A, Park SB, Seok JW, Kim MK, Han SS, **Lee ES**, Park HJ. Two cases of ovarian serous surface papillary borderline tumours with discordant 18F-FDG PET features. *Obstet Gynaecol.* 2020 Nov;40(8):1181-1183.
65. Choi SL, Park SB, **Lee ES**, Park HJ, Lee JB, Choi BI. Imaging Features of Extramammary Paget Disease of the Scrotum: A Case Report. *Ultrasound Q.* 2020 Mar;36(1):84-86
66. Jeon SK, Joo I, Kim SY, Jang JK, Park J, Park HS, **Lee ES**, Lee JM. Quantitative ultrasound radiofrequency data analysis for the assessment of hepatic steatosis using the controlled attenuation parameter as a reference standard. *Ultrasonography.* 2021 Jan;40(1):136-146.
67. Lee DH, **Lee ES**, Lee JY, Bae JS, Kim H, Lee KB, Yu SJ, Cho EJ, Lee JH, Cho YY, Han JK, Choi BI. Two-Dimensional-Shear Wave Elastography with a Propagation Map: Prospective Evaluation of Liver Fibrosis Using Histopathology as the Reference Standard. *Korean J Radiol.* 2020 Dec;21(12):1317-1325.

68. Lee DH, Kim B, **Lee ES**, Kim HJ, Min JH, Lee JM, Choi MH, Seo N, Choi SH, Kim SH, Lee SS, Park YS, Chung YE. Radiologic Evaluation and Structured Reporting Form for Extrahepatic Bile Duct Cancer: 2019 Consensus Recommendations from the Korean Society of Abdominal Radiology. *Korean J Radiol.* 2021 Jan;22(1):41-62.
69. Park JY, **Lee ES**, Hwang HW, Park HJ, Kim BJ, Choi CH. Heterotopic pancreas: the added value of endoscopic ultrasound with Computed Tomography for diagnosis. *Med Ultrason.* 2021 Feb 18;23(1):22-28.
70. Jeong S, Park SB, Chang IH, Shin J, Chi BH, Park HJ, **Lee ES**. Estimation of renal function using kidney dynamic contrast material-enhanced CT perfusion: accuracy and feasibility. *Abdom Radiol (NY).* 2021 May;46(5):2045-2051.
71. Han BH, Park SB, Chang IH, Chi BH, Park HJ, **Lee ES**. Urothelial-phase thin-section MDCT of the bladder in patients with hematuria: added value of multiplanar reformatted images. *Abdom Radiol (NY).* 2021 May;46(5):2025-2031.
72. Oh H, Park SB, Park HJ, **Lee ES**, Hur J, Choi W, Choi BI. Ultrasonographic features of uterine cervical lesions. *Br J Radiol.* 2021 May 1;94(1121):20201242.
73. Yu MH, Kim JH, Kang HJ, Choi SY, Park YS, **Lee ES**, Park HJ. Transabdominal Ultrasound for Follow-Up of Incidentally Detected Low-Risk Pancreatic Cysts: A Prospective Multicenter Study. *AJR Am J Roentgenol.* 2021 Jun;216(6):1521-1529.
74. Yoo J, Lee JM, Yoon JH, Joo I, **Lee ES**, Jeon SK, Jang S. Comparison of low kVp CT and dual-energy CT for the evaluation of hypervascular hepatocellular carcinoma. *Abdom Radiol (NY).* 2021 Jul;46(7):3217-3226.
75. Lee DH, **Lee ES**, Bae JS, Lee JY, Han JK, Yi NJ, Lee KW, Suh KS, Kim H, Lee KB, Choi BI. 2D shear wave elastography is better than transient elastography in predicting post-hepatectomy complication after resection. *Eur Radiol.* 2021 Aug;31(8):5802-5811.

76. Song M, Park SB, Yoon JW, Park HJ, **Lee ES**. Sonoelastography for Pelvic Metastatic Malignant Pheochromocytoma: A Case Report. *Curr Med Imaging*. 2021;17(9):1167-1170.
77. Choi SL, Park SB, Yang S, **Lee ES**, Park HJ, Lee JB, Choi BI. Detection of Ureteral Stones in Kidney Ureter Bladder Radiography: Usefulness of Digital Post-processing. *Curr Med Imaging*. 2021;17(11):1356-1362
78. Oh J, Park HJ, Lee ES, Park SB, Choi BI, Ahn S. Severity of hyperechoic pancreas on ultrasonography as a risk factor for glycemic progression. *Ultrasonography*. 2021 Oct;40(4):499-511.
79. Ko A, Park SB, Park HJ, **Lee ES**. Zinner Syndrome with Ectopic Ureter Remnant. *Curr Med Imaging*. 2022;18(1):78-81.
80. Song M, Park HJ, **Lee ES**, Ahn HS, Park SB. Value of precontrast and portal venous phases for evaluating atypical hepatocellular carcinoma mimicking arterioportal shunt. *Eur J Radiol*. 2021 Oct;143:109933.
81. Jeon SK, Lee JM, **Lee ES**, Yu MH, Joo I, Yoon JH, Jang JY, Lee KB, Lee SH. How to approach pancreatic cancer after neoadjuvant treatment: assessment of resectability using multidetector CT and tumor markers. *Eur Radiol*. 2022 Jan;32(1):56-66.
82. Kim HJ, **Lee ES**, Kim BJ, Kim WS, Park JY, Kim JG, Park JM, Kim JW, Chi KC, Kang H. Risk factors and clinical outcomes of postgastrectomy sarcopenia newly developed after curative resection for gastric cancer. *Medicine (Baltimore)*. 2022 Feb 11;101(6):e28699.
83. Park S, Lee Y, Kim H, Yu MH, **Lee ES**, Yoon JH, Joo I, Lee JM. Subtype Classification of Intrahepatic Cholangiocarcinoma Using Liver MR Imaging Features and Its Prognostic Value. *Liver Cancer*. 2022 Mar 30;11(3):233-246.

84. Oh H, Park HJ, Oh J, **Lee ES**, Park SB, Cha MJ, Ahn S. Hyperechoic pancreas on ultrasonography: an analysis of its severity and clinical implications. *Ultrasonography*. 2022 Apr;41(2):335-343.
85. Lee DH, Kim B, Lee JM, **Lee ES**, Choi MH, Kim H. Multidetector CT of Extrahepatic Bile Duct Cancer: Diagnostic Performance of Tumor Resectability and Interreader Agreement. *Radiology*. 2022 Jul;304(1):96-105.
86. Yoon JW, **Lee ES**, Park HJ, Park SB, Cho YY, Kannengiesser S, Hur J. Comparison of spin-echo echo-planar imaging magnetic resonance elastography with gradient-recalled echo magnetic resonance elastography and their correlation with transient elastography. *Diagn Interv Radiol*. 2022 Jul;28(4):294-300.
87. Song M, Park SB, Lee TJ, Park HJ, **Lee ES**, Kim MJ. Renal Parenchymal Leiomyoma Mimicking Renal Cell Carcinoma: A Case Report. *Curr Med Imaging*. 2022;18(14):1540-1544.
88. Jang JK, **Lee ES**, Seo JW, Kim YR, Kim SY, Cho YY, Lee DH. Two-dimensional Shear-Wave Elastography and US Attenuation Imaging for Nonalcoholic Steatohepatitis Diagnosis: A Cross-sectional, Multicenter Study. *Radiology*. 2022 Oct;305(1):118-126.
89. Hur J, **Lee ES**, Park HJ, Choi W, Park SB. Diagnostic performance of dual-energy computed tomography for HCC after transarterial chemoembolization: Utility of virtual unenhanced and low keV virtual monochromatic images. *Medicine (Baltimore)*. 2022 Oct 21;101(42):e31171.
90. Hwang JA, Jeong WK, Kang HJ, **Lee ES**, Park HJ, Lee JM. Perfluorobutane-enhanced ultrasonography with a Kupffer phase: improved diagnostic sensitivity for hepatocellular carcinoma. *Eur Radiol*. 2022 Dec;32(12):8507-8517

91. Huh J, Khan S, Choi S, Shin D, Lee JE, **Lee ES**, Ye JC. Tunable image quality control of 3-D ultrasound using switchable CycleGAN. *Med Image Anal.* 2023 Jan;83:102651.
92. Chung H, **Lee ES**, Ye JC. MR Image Denoising and Super-Resolution Using Regularized Reverse Diffusion. *MR Image Denoising and Super-Resolution Using Regularized Reverse Diffusion. IEEE Trans Med Imaging.* 2023 Apr;42(4):922-934.
93. Hong JJ, Park SB, Kim MK, Park HJ, **Lee ES**. Incidental Diagnosis of Ovarian Torsion Due to a Krukenberg Tumor Originating from Gastric Cancer: A Case Report. *Curr Med Imaging.* 2023;19(6):648-653.
94. Seo JW, Kim YR, Jang JK, Kim SY, Cho YY, **Lee ES**, Lee DH. Transient elastography with controlled attenuation parameter versus two-dimensional shear wave elastography with attenuation imaging for the evaluation of hepatic steatosis and fibrosis in NAFLD. *Ultrasonography.* 2023 Jul;42(3):421-431.
95. Park S, Ye JC, **Lee ES**, Cho G, Yoon JW, Choi JH, Joo I, Lee YJ. Deep Learning-Enabled Detection of Pneumoperitoneum in Supine and Erect Abdominal Radiography: Modeling Using Transfer Learning and Semi-Supervised Learning. *Korean J Radiol.* 2023 Jun;24(6):541-552.
96. Yoon JH, Park JY, Lee SM, **Lee ES**, Kim JH, Lee JM. Renal protection CT protocol using low-dose and low-concentration iodine contrast medium in at-risk patients of HCC and with chronic kidney disease: a randomized controlled non-inferiority trial. *Cancer Imaging.* 2023 Oct 19;23(1):100.
97. Park S, **Lee ES**, Shin KS, Lee JE, Ye JC. Self-supervised multi-modal training from uncurated images and reports enables monitoring AI in radiology. *Med Image Anal.* 2024 Jan;91:103021.
98. Yoon JH, Kim YK, Kim JW, Chang W, Choi JI, Park BJ, Choi JY, Kim SS, Park HS, **Lee ES**, Yu JS, Park SJ, You MW, Lee CH, Lee JM. Comparison of Four Diagnostic

- Guidelines for Hepatocellular Carcinoma Using Gadoteric Acid-enhanced Liver MRI. *Radiology*. 2024 Apr;311(1):e233114.
99. Kim M, Suh SW, **Lee ES**, Suh S, Lee SE, Choi YS. Clinical Factors Affecting the Rate of Liver Regeneration in Living Donors after Right Hepatectomy. *J Pers Med*. 2024 Apr 26;14(5):458.
100. Hong JJ, Park HJ, **Lee ES**, Kim MJ. Severity of hyperechoic pancreas on preoperative ultrasonography: high potential as a clinically useful predictor of a postoperative pancreatic fistula. *Ultrasonography*. 2024 Jul;43(4):272-283.
101. Yoon JH, Chang W, Kim YK, Lee CH, Kim JW, Park BJ, Choi JY, Kim SS, Park HS, **Lee ES**, Yu JS, Park SJ, You MW, Jang MJ, Choi JI, Lee JM. Comparison of Gadoteric Acid-Enhanced Liver Magnetic Resonance Imaging and Contrast-Enhanced Computed Tomography for the Noninvasive Diagnosis of Hepatocellular Carcinoma. *Liver Cancer*. 2025 Apr 22:1-13.
102. Lee G, Jung J, Kim J, Do JH, Choi YS, Lee SE, Park HJ, **Lee ES**, Kim JY, Kang H, Lee TY, Park TY, Oh HC. Long-Term Surveillance for Pancreatic Carcinoma Among Patients With Branch-Duct Intraductal Papillary Mucinous Neoplasms. *J Gastroenterol Hepatol* 2026 Jan;41(1):352-360.
103. Cho G, Park JY, **Lee ES**, Shin HH, Park HW, Park HJ, Kim HS, Kim JW, Kim BJ, Kim JG. The significance of small lymph nodes on CT for advanced poorly cohesive gastric carcinoma. *Cancer Imaging*. 2026 Jan 21;26(1):27.
104. Yoon JH, Choi JY, Kim YK, Lee CH, Kim JW, Chang W, Choi JI, Kim SS, Park HS, **Lee ES**, Yu JS, Park SJ, You MW, Jang MJ, Park BJ, Lee JM. Diagnostic Performance and Clinical Implications of the "Probable Hepatocellular Carcinoma" Category in the Korean Liver Cancer Association-National Cancer Center Korea Guidelines v2022. *Korean J Radiol*. 2026 Mar 3. doi: 10.3348/kjr.2025.1178. Online ahead of print.

INTERNATIONAL PRESENTATIONS

Oral presentation	Computed Tomography Features of Extensively Drug-Resistant Pulmonary Tuberculosis in Non-HIV-Infected Patients	Chicago	2008.12	Radiologic Society of North America
Exhibition	Radiologic Finding of XDR-Tuberculosis	Chicago	2008.12	Radiologic Society of North America
Oral presentation	Radiologist Performance in Differentiating Polypoid Early From Advanced Gastric Cancer Using Specific CT Criteria: Emphasis on Dimpling Sign	Vienna	2009.3	European Congress of Radiology
Oral presentation	Multiple-electrode radiofrequency ablations using Octopus-electrodes in an in vivo porcine liver model	Chicago	2011.12	Radiologic Society of North America
Oral presentation	Early biliary decompression prior to preoperative staging of hilar and extrahepatic cholangiocarcinoma: What happens?	Edinburgh	2012.6	European Society of Gastrointestinal and Abdominal Radiology
Oral presentation	High Spatial Resolution, Respiratory Gated T1-weighted MR Imaging of the Liver and Biliary Tract during the Hepatobiliary Phase of Gadoteric Acid-enhanced MR Imaging	Chicago	2012.12	Radiologic Society of North America
Oral presentation	Pulsed High-Intensity Focused Ultrasound Enhances Apoptosis of Pancreatic Cancer Xenograft with Gemcitabine	Chicago	2012.12	Radiologic Society of North America
Exhibition	Hepatic graft survival for more than 6 years: management with percutaneous multiple plastic stenting after total hepatic artery occlusion	Barcelona	2013.9	Cardiovascular and Interventional Radiological Society of Europe
Exhibition	Percutaneous internal plastic stent placement for post-liver transplant biliary stenosis: SNUH Protocol	Barcelona	2013.9	Cardiovascular and Interventional Radiological Society of Europe
Oral presentation	Effect of different reconstruction algorithms on computer-aided diagnosis (CAD) performance in ultra-low dose CT colonography	Chicago	2013.12	Radiologic Society of North America

Oral presentation	Xanthogranulomatous cholecystitis: which imaging tool is best in order to differentiate it from GB cancer?	Vienna	2014.03	European Congress of Radiology
Oral presentation	MRI detected extramural venous invasion in rectal cancer: Diagnostic performance and its prognostic significance	Paris	2015.6	European Society of Gastrointestinal and Abdominal Radiology
Oral presentation	Subepithelial tumor in rectum	Beijing	2016.8	Asian-Oceanian Congress of Radiology
Exhibition	Stomach pseudolesions due to external compression that mimic gastric subepithelial tumor on upper GI endoscopy: correlation with EUS and CT findings	Chicago	2016.11	Radiologic Society of North America
Exhibition	Imaging features of complex solid and multicystic ovarian lesions: proposed algorithm for differential diagnosis	Chicago	2016.11	Radiologic Society of North America
Exhibition	Acute pancreatitis due to migration of lipiodolized HCC to the distal bile duct: an endoscopic removal	Copenhagen	2017.9	Cardiovascular and Interventional Radiological Society of Europe
Oral presentation	Shear wave liver elastography with a propagation map: Diagnostic performance and interobserver correlation for hepatic fibrosis in chronic hepatitis	Taipei	2017.10	World federation of ultrasound in medicine and biology
Oral presentation	Evaluation of microvascular flow in the gallbladder bed of liver using cSMI: is it helpful for improvement of diagnostic performance compared with conventional US in diagnosing acute cholecystitis?	Vienna	2018.3	European Congress of Radiology
Exhibition	Noise reduction and texture restoration in abdominal digital radiography: phantom and preliminary patient studies	Vienna	2018.3	European Congress of Radiology
Oral presentation	Diagnostic performance of 2D-SWE at GB bed of liver for acute cholecystitis	Rome	2019.06	European Society of Gastrointestinal and Abdominal Radiology

Oral presentation	CT detected gastroduodenal SET: added value of EUS	Seoul	2019.09	Korean Congress of Radiology
Oral presentation	Comparison of SE-EPI MRE with GRE MRE	Seoul	2019.09	Korean Congress of Radiology
Oral presentation	Shear wave dispersion imaging of acute interstitial edematous pancreatitis	Seoul	2019.09	Korean Congress of Radiology

INTERNATIONAL INVITED LECTUREs

1. Abdominal US at ICU. Korean Society of Ultrasound in Medicine (2014.5)
2. Oncologic MRI: Abdomen. International Congress on Magnetic Resonance Imaging (2015.3)
3. Nonmucosal tumor of the rectum. KSR-IRIA Friendship Symposium (2015.7)
4. Imaging of pancreatic cancer: early diagnosis focused. Korean Congress of Radiology (2015.9)
5. Case based review of abdominal MRI. International Congress on Magnetic Resonance Imaging (2016.3)
6. Shear wave elastography with a propagation map in chronic hepatitis. Korean Society of Ultrasound in Medicine (2016.5)
7. Mucin related tumor in biliarypancreas. Korean Congress of Radiology (2017.9)
8. Experience in Korea and debateful issues. Humanitas International Cancer Symposium (2017.12)
9. Efficacy of SMI for acute cholecystitis. Korean Society of Ultrasound in Medicine (2018.5)

As of Mar 2026

Eun Sun LEE, M.D. Ph.D.



Printed Name

Signature