

CURRICULUM VITAE

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Citizenship:

Republic of Korea

Licensure and Certification:

Korean National Medical License
(February 2005- present)
Korean Board of Radiology
(February 2010- present)

Education and Post-graduate training

Doctor of Medicine: Seoul National University College of Medicine
(March 1999-February 2005)

Integrated Master's and PhD program: Seoul National University College of Medicine
(March 2008-February 2019)

MILITARY SERVICE: Radiologist-in-Chief, the Korea National Tuberculosis Association
Incheon Branch (April 2010- April 2013)

Internship:

Seoul National University Hospital
(March 2005-February 2006)

Residency: Department of Radiology,
Seoul National University Hospital
(March 2006-February 2010)

Fellow: Animal research fellow (May 2013-February 2014)
Clinical fellow (March 2014- February 2015)
Thoracic division, Department of Radiology,
Seoul National University Hospital

Academic appointments

Clinical assistant professor
Thoracic division, Department of Radiology, Seoul National University Hospital
(March 2015-Aug 2019)

Clinical associate professor
Thoracic division, Department of Radiology, Seoul National University Hospital
(Sep 2019-Aug 2024)

Clinical professor
Thoracic division, Department of Radiology, Seoul National University Hospital
(Sep 2024- present)

Visiting appointments

Visiting professor
Department of Radiology, UMass Memorial Medical Center
(Feb 2021-Jan 2022)

Awards and Honors

- Prize of Minister of the Ministry of Health and Welfare (March 24th 2012)
- Prize for Best Scientific Article among Korean Society of Radiology in 2011 (Oct 19th 2012)
- Young Investigator Scholarship in Asian-Oceanian Radiology 2014 (Sep 24th 2014)
- Trainee Research Prize in RSNA 2014 (Dec 2th 2014)

- Radiology fellow of the year in 2014 (Feb 6th 2015)
- Young Researcher Award 2019 in Seoul National University Hospital (Dec 20th 2019)
- Korean Radiological Society KOREAN SOCIETY OF RADIOLOGY -Research Influence Grand Prize (Sep 3rd 2021)
- 2021 The Korean Federation of Science and Technology Societies Science and Technology Excellence Paper Award (Sep 10th 2021)
- Korean Journal of Radiology-Excellent Reviewer Award (Sep 21th 2022)
- Korean Journal of Radiology-The Most Cited Paper (Sep 23th 2022)
- Korean Society of Radiology-The Best E-Learning Planning Lecture Award (Sep 23th 2022)
- Researcher Award 2022 in Seoul National University College of Medicine (Nov 10th 2022)
- Myung Joo-wan Researcher Award 2022 in Seoul National University Hospital (June 9th 2023)
- *Radiology* Editor's Recognition Award with Special Distinction (2023)
- Researcher Award 2024 in Seoul National University College of Medicine (Oct 28th 2024)
- *Radiology* Editor's Recognition Award with Special Distinction (2024)

Grants

Development of Korean population age estimation technique to estimate minor status

Role: Principal Investigator

Funder: National Forensic Service

Period: April 2015 – December 2015 (\$22,080 total)

Diagnostic performance and complication rates of percutaneous lung biopsy: updated meta-analysis and meta-regression analysis.

Role: Co-investigator

Funder: The Korea Health Industry Development Institute

Period: March 2016 – October 2017 (\$10,714 total)

CT lung elastography based on automatic lung registration and lobar segmentation between scans: Development of a new imaging biomarker for interstitial lung disease

Role: Principal Investigator

Funder: National Research Foundation of Korea

Period: June 2016 – May 2019 (\$107,140 total)

Acute adverse reactions to non-ionic iodine contrast agent: a network meta-analysis

Role: Principal Investigator

Funder: Seoul National University Hospital

Period: August 2017 – July 2018 (\$7,140 total)

Development of automatic diagnosis solutions for lung diseases and lowdose mobile spiral CT for rapid response to infectious diseases

Role: Co-investigator

Funder: Korea Medical Device Development Fund

Period: September 2020 – December 2022 (\$304,400 total)

Low-dose chest CT screening for early never-smoker lung cancer in female first-degree relatives of patients with EGFR-mutated lung adenoca.: a prospective trial

Role: Principal Investigator

Funder: Seoul National University Hospital

Period: June 2023 – May 2024 (\$10,714 total)

Development of federated medical AI benchmarking multicenter network based on standardized multi-modal data

Role: Principal Investigator

Funder: NAVER Digital Bio Innovation Research Fund

Period: February 2024 – January 2027 (\$1,500,000 total)

A systematic analysis of pathogenic germline variant in lung cancer and whole genome sequencing from blood in female never-smoker lung adenocarcinoma spectrum with a family history of lung cancer

Role: Principal Investigator

Funder: Seoul National University Hospital

Period: September 2024 – August 2025 (\$10,714 total)

Professional Affiliation

Korean Radiological Society (2010 – present)

Steward, Legislation committee (2018-21)

Steward, Policy Research Committee (2024- present)

Korean Society of Thoracic Radiology (2014 - present)

Steward, Strategic planning committee (2019-20)

Director, Education & training committee (2023-24)

Director, Academic committee (2025-present)

Korean Association for Lung Cancer (2016 – present)

Academic committee (2023-24)

Lung cancer registration committee (2023-24)

Medical insurance committee (2023-24)

International Association for the Study of Lung Cancer (2018 – present)

PEER-REVIEWED JOURNAL ARTICLES

Main Author (106 articles; 102 English and 4 Korean articles)

Co-author (77 articles; 75 English and 2 Korean articles)

Main Author

1. Yoon SH, Kim SH, Kim SG, Kim SJ, Lee JM, Lee JY, Han JK, Choi BI. Comparison study of different bowel preparation regimens and different fecal-tagging agents on tagging efficacy, patients' compliance, and diagnostic performance of computed tomographic colonography: preliminary study. *J Comput Assist Tomogr*. 2009 Sep-Oct;33(5):657-65.
2. Yoon SH, Lee JM, So YH, Hong SH, Kim SJ, Han JK, Choi BI. Multiphasic MDCT enhancement pattern of hepatocellular carcinoma smaller than 3 cm in diameter: tumor size and cellular differentiation. *AJR Am J Roentgenol*. 2009 Dec;193(6):W482-9.
3. Yoon SH, Lee KH, Kim SY, Kim YH, Kim JH, Lee SH, Kim TK. Real-time contrast-enhanced ultrasound-guided biopsy of focal hepatic lesions not localised on B-mode ultrasound. *Eur Radiol*. 2010 Aug;20(8):2047-56.
4. Yoon SH, Lee JM, Cho JY, Lee KB, Kim JE, Moon SK, Kim SJ, Baek JH, Kim SH, Lee JY, Han JK, Choi BI. **Analysis of the Enhancement Patterns and Secondary Signs of Small Pancreatic Adenocarcinomas (< 20 mm) on Multiphasic Multirow-detector CT. *Radiology*. 2011 Jul;260(1):148-57.**
5. Yoon SH, Park CM, Goo JM, Lee HJ. Pulmonary Aspergillosis in Immunocompetent Patients without Air-Meniscus Sign and Underlying Lung Disease: CT Findings and Histopathologic Features. *Acta Radiol*. 2011 Sep 1;52(7):756-61.
6. Yoon SH, Park CM, Lee CH, Song IC, Lee HJ, Goo JM. Feasibility of In vivo Proton Magnetic Resonance Spectroscopy for Lung Cancer. *JKSMRM*. 2012 16(1): 40-46.
7. Yoon SH, Lee NK, Yim JJ. Impact of sputum gross appearance and volume on smear positivity of pulmonary tuberculosis: a prospective cohort study. *BMC Infect Dis*. 2012 Aug 1;12(1):172.
8. Yoon SH, Goo JM, Goo HW. Quantitative thoracic CT techniques in adults: can they be applied in the pediatric population? *Pediatr Radiol*. 2013 Mar;43(3):308-14.
9. (Korean) Yoon SH, Lee KH, Goo JM, Kim SJ, Kim EK, Baek JH, Cho YK, Lee KS, Lim TH, Park SH. First Step for Clinical Trial in the Korean Society of Radiology: A Panel Discussion. *J Korean Soc Radiol* 2013; 68(2):157-168
10. Yoon SH, Goo JM, Lee SM, Park CM, Seo HJ, Cheon GJ. Positron emission tomography/magnetic resonance imaging evaluation of lung cancer: current status and future prospects. *J Thorac Imaging*. 2014 Jan;29(1):4-16.
11. Yoon SH, Goo JM, Jung J, Hong H, Park EA, Lee CH, Lee Y, Jin KN, Choo JY, Lee NK. Computer-aided classification of visual ventilation patterns in patients with chronic obstructive pulmonary disease at two-phase xenon-enhanced CT. *Korean J Radiol*. 2014 May;15(3):386-96.
12. Yoon SH, Lee SY, Kang HR, Kim JY, Hahn SK, Park CM, Chang YS, Goo JM, Cho SH. **Skin tests in patients with hypersensitivity reaction to iodinated contrast media: A meta-analysis. *Allergy*. 2015**

Jun;70(6):625-37.

13. Yoon SH, Goo JM, Lee SM, Park CM, Cheon GJ. PET/MR Imaging for Chest Diseases: Review of Initial Studies on Pulmonary Nodules and Lung Cancers. *Magn Reson Imaging Clin N Am*. 2015 May;23(2):245-59.
14. Yoon SH, Kim KW, Goo JM, Kim DW, Hahn S. **Observer variability in RECIST-based tumour burden measurements: a meta-analysis.** *Eur J Cancer*. 2016 Jan;53:5-15.
15. Yoon SH, Park CM, Park SJ, Yoon JH, Hahn S, Goo JM. **Tumor Heterogeneity in Lung Cancer: Assessment with Dynamic Contrast-enhanced MR Imaging.** *Radiology*. 2016 Sep;280(3):940-8.
16. Yoon SH, Yoo HJ, Yoo RE, Lim HJ, Yoon JH, Park CM, Lee SS, Yoo SH. Ossification of the Medial Clavicular Epiphysis on Chest Radiographs: Utility and Diagnostic Accuracy in Identifying Korean Adolescents and Young Adults under the Age of Majority. *J Korean Med Sci*. 2016 Oct;31(10):1538-45.
17. Lee SC, Yoon SH, Goo JM, Yim JJ, Kim CK. Submillisievert Computed Tomography of the Chest in Contact Investigation for Drug-Resistant Tuberculosis. *J Korean Med Sci*. 2017 Nov;32(11):1779-1783.
18. Yoon SH, Lee C, Park J, Goo JM, Park JY. In-vivo Visualization of Iron Oxide Enhancement in Focal Pulmonary Inflammatory Lesions Using a Three-Dimensional Radial Gradient-Echo-Based Ultrashort Echo Time Sequence: A Preliminary Study. *Korean J Radiol*. 2018 Jan-Feb;19(1):153-157.
19. Kim TH, Yoon SH, Lee SY, Choi YH, Park CM, Kang HR, Cho SH. Biphasic and protracted anaphylaxis to iodinated contrast media. *Eur Radiol*. 2018 Mar;28(3):1242-1252.
20. Yoon SH, Choi SH, Kang CH, Goo JM. **Incidental Anterior Mediastinal Nodular Lesions on Chest CT in Asymptomatic Subjects.** *J Thorac Oncol*. 2018 Mar;13(3):359-366.
21. Yoon SH, Lee C, Park J, Goo JM, Park JY. Gradient-echo-based 3D Sub-millisecond Echo Time Pulmonary MR Imaging: a preliminary usability study on clinical and preclinical MR scanners. *Br J Radiol*. 2018 Jul;91(1087):20170796.
22. Kim YS, Yoon SH, Choi YH, Park CM, Lee W, Goo JM. Nausea and vomiting after exposure to non-ionic contrast media: incidence and risk factors focusing on preparatory fasting. *Br J Radiol*. 2018 Jul;91(1087):20180107.
23. Ahn SY, Yoon SH, Yang BR, Kim YT, Park CM, Goo JM. Risk of pleural recurrence after percutaneous transthoracic needle biopsy in stage I non-small-cell lung cancer. *Eur Radiol*. 2019 Jan;29(1):270-278.
24. (Korean) Yoon SH, Kang E., Kim Y., Kim, Y., Chong S., Cha YK, Chae EJ, Hwang EJ. Chest Radiographic Findings of Tuberculosis. *J Korean Soc Thorac Radiol* 2018;7(1):1-21.
25. Kim H, Kwon D, Yoon SH, Kim H, Park CM, Goo JM, Jeon YK, Ahn SY. Bronchovascular injury associated with clinically significant hemoptysis after CT-guided core biopsy of the lung: Radiologic and histopathologic analysis. *PLoS One*. 2018 Sep 21;13(9):e0204064.
26. Yoon SH, Goo JM, Lee CH, Cho JY, Kim DW, Kim HJ, Paeng JC, Kim YT. Virtual reality-assisted localization and three-dimensional printing-enhanced multidisciplinary decision to treat radiologically occult superficial endobronchial lung cancer. *Thorac Cancer*. 2018 Nov;9(11):1525-1527
27. Park J, Jung J, Yoon SH, Goo JM, Hong H, Yoon JH. Inspiratory Lung Expansion in Patients with Interstitial Lung Disease: CT Histogram Analyses. *Sci Rep*. 2018 Oct 15;8(1):15265.
28. Kim H, Yoon SH, Hong H, Hahn S, Goo JM. Diagnosis of Idiopathic Pulmonary Fibrosis in a Possible Usual

Interstitial Pneumonia Pattern: a meta-analysis. *Sci Rep*. 2018 Oct 26;8(1):15886.

29. Yoon SH, Park S, Kang CH, Park IK, Goo JM, Kim YT. Personalized 3D-Printed Model for Informed Consent for Stage I Lung Cancer: A Randomized Pilot Trial. *Semin Thorac Cardiovasc Surg*. 2019;31(2):316-318

30. Han S, Yoon SH, Lee W, Choi YH, Kang DY, Kang HR. Management of Adverse Reactions to Iodinated Contrast Media for Computed Tomography in Korean Referral Hospitals: A Survey Investigation. *Korean J Radiol*. 2019 Jan;20(1):148-157.

31. Yoon SH, Park CM, Lee KH, Lim KY, Suh YJ, Im DJ, Hur J, Han DH, Kang MJ, Choo JY, Kim C, Kim JI, Hyun H. Analysis of Complications of Percutaneous Transthoracic Needle Biopsy Using CT-Guidance Modalities In a Multicenter Cohort of 10568 Biopsies. *Korean J Radiol*. 2019 Feb;20(2):323-331.

32. Kim TH, Yoon SH, Hong H, Kang HR, Cho SH, Lee SY. Duration of Observation for Detecting a Biphasic Reaction in Anaphylaxis: A Meta-Analysis. *Int Arch Allergy Immunol*. 2019;179(1):31-36

33. Kim H, Yoon SH, Kim J, Lee KW, Choi YR, Cho H, Goo JM. Growth of thymic epithelial tumors and thymic cysts: Differential radiological points. *Thorac Cancer*. 2019 Apr;10(4):864-871

34. Hwang EJ, Paek M, Yoon SH, Kim J, Lee HY, Goo JM, Kim H, Kim H, Ackman JB. Quantitative Thoracic Magnetic Resonance Criteria for the Differentiation of Cysts from Solid Masses in the Anterior Mediastinum. *Korean J Radiol*. 2019 May;20(5):854-861.

35. Yoon JH, Yoon SH, Hahn S. Development of an algorithm for evaluating the impact of measurement variability on response categorization in oncology trials. *BMC Med Res Methodol*. 2019 May 2;19(1):90.

36. Nam JG, Goo JM, Park CM, Lee HJ, Lee CH, Yoon SH. Age- and gender-specific disease distribution and the diagnostic accuracy of CT for resected anterior mediastinal lesions. *Thorac Cancer*. 2019 Jun;10(6):1378-1387.

37. Han S, Yoon SH, Goo JM, Yim J. Radiological features and progression of incipient active pulmonary tuberculosis according to risk factors. *Int J Tuberc Lung Dis*. 2019 Jun 1;23(6):698-706.

38. Chae KJ, Hong H, Yoon SH, Hahn S, Jin GY, Park CM, Goo JM. Non-diagnostic Results of Percutaneous Transthoracic Needle Biopsy: A Meta-analysis. *Sci Rep*. 2019 Aug 27;9(1):12428.

39. (Korean) SH Yoon, J Hong, EJ Hwang, H Kim, H Lim, YJ Suh, HY Kim, JM Goo. Significant Abnormalities Other than Lung Cancer in Korean Lung Cancer CT Screening. *J Korean Soc Radiol*. 2019 Sep;80(5):837-848.

40. Suh YJ, Yoon SH, Hong H, Hahn S, Kang DY, Kang HR, Choi YH, Lee W. Acute Adverse Reactions to Nonionic Iodinated Contrast Media: A Meta-Analysis. *Invest Radiol*. 2019 Sep;54(9):589-599.

41. Lee JH, Yoon SH, Kim YT, Kang CH, Park IK, Park S, Goo JM. Sleeve Lobectomy for Non-Small Cell Lung Cancers: Predictive CT Features for Resectability and Outcome Analysis. *AJR Am J Roentgenol*. 2019 Oct;213(4):807-816.

42. Hong JH, Yoon SH, Goo JM, Yim JJ, Jeon YK. Clustered micronodules as predominant manifestation on CT: A sign of active but indolently evolving pulmonary tuberculosis. *PLoS One*. 2020 Apr 17;15(4):e0231537.

43. Kim H, Yoon SH, Lee HJ, Song SG, Koh J, Jeon YK, Chae KJ, Jin GY, Jin KN, Lee KY, Goo JM. Right-Angled Traction Bronchiectasis in Differentiating Idiopathic Pulmonary Fibrosis Without Honeycombing From Idiopathic Nonspecific Interstitial Pneumonia. *Invest Radiol*. 2020 Jun;55(6):387-395.

44. Yoon SH, Lee KH, Kim JY, Lee YK, Ko H, Kim KH, Park CM, Kim YH. Chest Radiographic and CT Findings of the 2019 Novel Coronavirus Disease (COVID-19): Analysis of Nine Patients Treated in Korea. *Korean J Radiol*. 2020 Apr;21(4):494-500.
45. H Choi, X Qi, SH Yoon, SJ Park, KH Lee, JY Kim, YK Lee, H Ko, KH Kim, CM Park, Y Kim, J Lei, JH Hong, H Kim, EJ Hwang, SJ Yoo, JG Nam, CH Lee, JM Goo. Extension of Coronavirus Disease 2019 (COVID-19) on Chest CT and Implications for Chest Radiograph Interpretation. *Radiol Cardiothorac Imaging*. 2020 Mar 30;2(2):e200107.
- 46. Kim H, Hong H, Yoon SH. Diagnostic Performance of CT and Reverse Transcriptase Polymerase Chain Reaction for Coronavirus Disease 2019: A Meta-Analysis. *Radiology*. 2020 Sep;296(3):E145-E155.**
47. Yoon SH, Kim M. Anterior Pulmonary Ventilation Abnormalities in COVID-19. *Radiology*. 2020 Nov;297(2):E276-E277.
48. Yoon S, Mihn D, Song J, Kim SA, Yim J. Evolution of Interferon-Gamma Release Assay Results and Submillisievert Chest CT Findings among Close Contacts of Active Pulmonary Tuberculosis Patients. *Tuberc Respir Dis (Seoul)*. 2020 Oct; 83(4): 283–288.
49. Yoon SH, Ham S, Nam BD, Chae KJ, Lee D, Yoo JY, Bak SH, Kim JY, Kim JH, Kim KB, Jung JI, Lim J, Lee JE, Chung MJ, Lee YK, Kim YS, Jo JE, Lee SM, Kwon W, Park CM, Kim Y, Jeong YJ. Establishment of a Nationwide Korean Imaging Cohort of Coronavirus Disease 2019. *J Korean Med Sci*. 2020 Nov 30; 35(46): e413.
50. (Korean) Yoo SJ, Goo JM, Yoon SH. Role of Chest Radiographs and CT Scans and the Application of Artificial Intelligence in Coronavirus Disease 2019. *J Korean Soc Radiol*. 2020 Nov;81(6):1334-1347.
- 51. Suh YJ, Hong H, Ohana M, Bompard F, Revel MP, Valle C, Gervaise A, Poissy J, Susen S, Hékimian G, Artifoni M, Periard D, Contou D, Delaloye J, Sanchez B, Fang C, Garzillo G, Robbie H, SH Yoon. Pulmonary Embolism and Deep Vein Thrombosis in COVID-19: A Systematic Review and Meta-Analysis. *Radiology*. 2021 Feb;298(2):E70-E80.**
52. Park J, Jung J, Yoon SH, Hong H, Kim H, Kim H, Yoon J, Goo JM. CT quantification of the heterogeneity of fibrosis boundaries in idiopathic pulmonary fibrosis. *Eur Radiol*. 2021 Jul;31(7):5148-5159
53. Yoon SH, Lee SM, Park CH, Lee JH, Kim H, Chae KJ, Jin KN, Lee KH, Kim JI, Hong JH, Hwang EJ, Kim H, Suh YJ, Park S, Park YS, Kim D, Choi M, Park CM. 2020 Clinical Practice Guideline for Percutaneous Transthoracic Needle Biopsy of Pulmonary Lesions: A Consensus Statement and Recommendations of the Korean Society of Thoracic Radiology. *Korean J Radiol*. 2021 Feb; 22(2): 263–280.
- 54. Hong H, Hahn S, Matsuguma H, Inoue M, Shintani Y, Honda O, Izumi Y, Asakura K, Asamura H, Isaka T, Lee K, Choi YS, Kim YT, Park CM, Goo JM, Yoon SH. Pleural recurrence after transthoracic needle lung biopsy in stage I lung cancer: a systematic review and individual patient-level meta-analysis. *Thorax*. 2021 Jun;76(6):582-590.**
55. Lee JH, Yoon SH, Hong H, Rho JY, Goo JM. Incidence, risk factors, and prognostic indicators of symptomatic air embolism after percutaneous transthoracic lung biopsy: a systematic review and pooled analysis *Eur Radiol*. 2021 Apr;31(4):2022-2033.
56. Kim JE, Park SJ, Kim YC, Min S, Ha J, Kim YS, Yoon SH (co-correspondence), Han SS. Deep Learning-

Based Quantification of Visceral Fat Volumes Predicts Posttransplant Diabetes Mellitus in Kidney Transplant Recipients. *Front Med (Lausanne)*. 2021 May 25;8:632097.

57. Nam JG, Witanto JN, Park SJ, Yoo SJ, Goo JM, Yoon SH. Automatic pulmonary vessel segmentation on noncontrast chest CT: deep learning algorithm developed using spatiotemporally matched virtual noncontrast images and low-keV contrast-enhanced vessel maps. *Eur Radiol*. 2021 Dec;31(12):9012-9021

58. C Kwon, KM Kang, YH Choi, RE Yoo, CH Sohn, SS Han, SH Yoon. Renal Safety of Repeated Intravascular Administrations of Iodinated or Gadolinium-Based Contrast Media within a Short Interval. *Korean J Radiol*. 2021 Jun 1. doi: 10.3348/kjr.2020.1153.

59. Kim SI, Yoon SH (co-1st), Kim TM, Cho JY, Chung HH, Song YS. Prognostic implications of body composition change during primary treatment in patients with ovarian cancer: A retrospective study using an artificial intelligence-based volumetric technique. *Gynecologic Oncology*. 2021 July;162(1):72-79

60. Joo I, Kwak MS, Park DH, Yoon SH. Fully automated waist circumference measurement on abdominal CT: Comparison with manual measurements and potential value for identifying overweight and obesity as an adjunct output of CT scan. *PLoS One*. 2021 Jul 19;16(7):e0254704.

61. Lee YS, Hong N, Witanto JN, Choi YR, Park J, Decazes P, Eude F, Kim CO, Chang Kim H, Goo JM, Rhee Y, Yoon SH (co-correspondence). Deep neural network for automatic volumetric segmentation of whole-body CT images for body composition assessment. *Clin Nutr*. 2021 Aug;40(8):5038-5046.

62. Lee JH, Yum HK, Jamous F, Santos C, Campisi A, Surani S, Lococo F, Goo JM, Yoon SH. Diagnostic procedures and clinico-radiological findings of acute fibrinous and organizing pneumonia: a systematic review and pooled analysis. *Eur Radiol*. 2021 Oct;31(10):7283-7294.

63. JH Lee, H Hong, H Kim, CH Lee, JM Goo, SH Yoon. CT Examinations for COVID-19: A Systematic Review of Protocols, Radiation Dose, and Numbers Needed to Diagnose and Predict. *J Korean Soc Radiol*. 2021 Nov;82(6):1505-1523

64. JY Kim, KJ Jung, SJ Yoo, SH Yoon. Stratifying the early radiologic trajectory in dyspneic patients with COVID-19 pneumonia. *Plos one* 16 (10), e0259010

65. Lee S, Yim JJ, Kwak N, Lee YJ, Lee JK, Lee JY, Kim JS, Kang YA, Jeon D, Jang MJ, Goo JM, Yoon SH. Deep Learning to Determine the Activity of Pulmonary Tuberculosis on Chest Radiographs. *Radiology*. 2021 Nov;301(2):435-442.

66. Nam BD, Yoon SH, Hong H, Hwang JH, Goo JM, Park S. Tissue Adequacy and Safety of Percutaneous Transthoracic Needle Biopsy for Molecular Analysis in Non-Small Cell Lung Cancer: A Systematic Review and Meta-analysis. *Korean J Radiol*. 2021 Dec;22(12):2082-2093

67. H Choi, YS Park, KJ Na, S Park, IK Park, CH Kang, YT Kim, JM Goo, SH Yoon. Association of Adipopenia at Preoperative PET/CT with Mortality in Stage I Non-Small Cell Lung Cancer. *Radiology*. 2021 Dec;301(3):645-653

68. MG Kim, BR Yang, CM Park, SH Yoon. Preoperative percutaneous needle lung biopsy techniques and ipsilateral pleural recurrence in stage I lung cancer. *Eur Radiol*. 2022 Apr;32(4):2683-2692.

69. S Inui, SH Yoon (co-1st), O Doganay, FV Gleeson, M Kim. Impaired pulmonary ventilation beyond pneumonia in COVID-19: A preliminary observation. *PLoS One*. 2022 Jan 25;17(1):e0263158.

70. SJ Yoo, X Qi, S Inui, H Kim, YJ Jeong, KH Lee, YK Lee, BY Lee, JY Kim, KW Jin, J Lim, Y Kim, KB Kim, Z Jian, C Shao, J Lei, S Zou, H Pan, Y Gu, G Zhang, JM Goo, [SH Yoon](#). Deep Learning–Based Automatic CT Quantification of Coronavirus Disease 2019 Pneumonia: An International Collaborative Study. *J Comput Assist Tomogr*. 2022 May-Jun;46(3):413-422.
71. S Lee, HW Lee, H Kim, DK Kim, J Yim, [SH Yoon \(co-correspondence\)](#), N Kwak. Deep learning-based prediction model using x-ray in nontuberculous mycobacterial pulmonary disease. *Chest*. 2022 Nov;162(5):995-1005.
72. [SH Yoon](#), JM Goo, JJ Yim, T Yoshiyama, JAL Flynn. CT and 18F-FDG PET abnormalities in contacts with recent tuberculosis infections but negative chest X-ray. *Insights Imaging*. 2022 Jul 7;13(1):112.
73. W Hong, PL White, M Backx, J Gangneux, F Reizine, P Koehler, RG Bentvelsen, ML Guestas, H Fakhim, JI Jung, YK Lee, NR Dalsania, RK Patti, [SH Yoon](#). CT findings of COVID-19-associated pulmonary aspergillosis: a systematic review and individual patient data analysis. *Clinical Imaging*. 2022 Oct: 11-18
74. [SH Yoon \(co-1st\)](#), KJ Na, CH Kang, IK Park, S Park, JM Goo, YT Kim. Remotely shared CT-derived presurgical understanding of lung cancer: A randomized trial. *Thorac Cancer*. 2022 Oct;13(19):2823-2828.
75. SJ Yoo, JH Hong, N Kwak, JJ Yim, [SH Yoon](#). Prospective evaluation of thoracic diseases using a compact flat-panel detector spiral computed tomographic scanner. *Eur J Radiol Open*. 2022 Nov 17;9:100452
- 76. [SH Yoon \(co-1st\)](#), JH Lee, B Kim. Chest CT Findings in Hospitalized Patients with SARS-CoV-2: Delta versus Omicron Variants. *Radiology*. 2023 Jan;306(1):252-260**
- 77. JH Lee, J Koh, YK Jeon, JM Goo, [SH Yoon](#). An Integrated Radiologic-Pathologic Understanding of COVID-19 Pneumonia. *Radiology*. 2023 Feb;306(2):e222600.**
78. I Yoon, JH Hong, JN Witanto, JJ Yim, N Kwak, JM Goo, [SH Yoon](#). Mycobacterial cavity on chest computed tomography: clinical implications and deep learning-based automatic detection with quantification. *Quant Imaging Med Surg*. 2023 Feb 1;13(2):747-762.
- 79. H Kim, KN Jin, SJ Yoo, CH Lee, SM Lee, H Hong, JN Witanto, [SH Yoon](#). Deep learning for estimating lung capacity on chest radiographs predicts survival in idiopathic pulmonary fibrosis. *Radiology*. 2023 Mar;306(3):e220292**
80. JH Hong, H Hong, YR Choi, DH Kim, JY Kim, JH Yoon, [SH Yoon](#). CT analysis of thoracolumbar body composition for estimating whole-body composition. *Insights Imaging*. 2023 Apr 24;14(1):69
81. [SH Yoon](#), JM Goo. Changes in COVID-19 CT Manifestations with Vaccination and the Omicron Variant *Radiology*. 2023 May;307(3):e230454.
82. BD Nam, H Hong, [SH Yoon](#). Diagnostic performance of standardized typical CT findings for COVID-19: a systematic review and meta-analysis *Insights Imaging*. 2023 May 24;14(1):96.
- 83. JH Lee, SH Choi, KJ Jung, JM Goo, [SH Yoon](#). High visceral fat attenuation and long-term mortality in a health check-up population. *J Cachexia Sarcopenia Muscle*. 2023 Jun;14(3):1495-1507**
84. SJ Yoo, H Kim, JN Witanto, S Inui, JH Yoon, KD Lee, YW Choi, JM Goo, ..., [SH Yoon](#). Generative adversarial network for automatic quantification of Coronavirus disease 2019 pneumonia on chest radiographs. *Eur J Radiol*. 2023 Jul;164:110858.

85. SH Yoon, HW Goo. Real-time Ray Tracing for Cardiothoracic Imaging. Radiol Cardiothorac Imaging. 2023 Aug 24;5(4):e220304.
86. JE Park, J Jo, J Youk, M Kim, SH Yoon (co-correspondence), B Keam, TM Kim, DW Kim. Prognostic utility of body composition parameters based on computed tomography analysis of advanced non-small cell lung cancer treated with immune checkpoint inhibitors. Insights Imaging. 2023 Oct 26;14(1):182.
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Scientific Presentations

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8. Soon Ho Yoon, Jin Mo Goo, Chang Hyun Lee, Chang Hyun Kang, Young Tae Kim, Jihang Kim, Hyoun Cho. Doubling time of thymic epithelial tumors: slow but with considerable variability. Korean Congress of Radiology (KCR), Seoul. September. 2016.
9. Tae-Hyung Kim, Soon Ho Yoon, Young Hun Choi, Chang Min Park. Biphasic anaphylactic reactions to iodinated contrast media: incidence, characteristics and risk factors. Korean Congress of Radiology (KCR), Seoul. September. 2016.
10. Soo-Youn Ham, Myeong Im Ahn, Jin Mo Goo, Hye Young Kim, Tae Jung Kim, Hyun Ju Lee, Chang Min Park, Sang Hyun Baek, Soon Ho Yoon, Semin Chung, Hwan Seok Yong, Daehee Han, Jin Huh. Suggestion of lung RADS and radiology report by the Korean Imaging Study Group for Lung Cancer. Korean Congress of Radiology (KCR), Seoul. September. 2016.
11. Woohyeon Lim, Chang Min Park, Soon Ho Yoon, Hyun-Ju Lim, Eui Jin Hwang, Jong Hyuk Lee, Jin Mo Goo. Time-dependent analysis of incidence, risk factors and clinical significance of pneumothorax after percutaneous lung biopsy. Korean Congress of Radiology (KCR), Seoul. October. 2017.
12. Heekyung Kim, Soon Ho Yoon, Chang Min Park, Yoon Kyung Jeon, Suyeon Ahn. Life-threatening hemoptysis after percutaneous needle lung biopsy: re-analysis of risk factor. Korean Congress of Radiology (KCR), Seoul. October. 2017.
13. Hyun-ju Lim, Chang Min Park, Soon Ho Yoon, Jae Seok Bae, Jin Mo Goo. Cone-beam CT virtual navigation-guided percutaneous needle biopsy of suspected pleural malignant disease: initial experience. Korean Congress of Radiology (KCR), Seoul. October. 2017.
14. Hyungjin Kim, Kum Ju Chae, Soon Ho Yoon, Miso Kim, Bhumsuk Keam, Tae Min Kim, Dong-Wan Kim, Jin Mo Goo, Chang Min Park. Repeat biopsy of patients with acquired resistance to EGFR TKIs: implications of biopsy-related factors on T790M mutation detection. Korean Congress of Radiology (KCR), Seoul. October. 2017.
15. Soon Ho Yoon, Jin Mo Goo, Julip Jung, Helen Hong. Quantification of subpleural thickness in the lung base as a new imaging biomarker in patient with idiopathic pulmonary fibrosis. Korean Congress of Radiology (KCR), Seoul. October. 2017.
16. Seungchul Han, Soon Ho Yoon, Jin Mo Goo, Jae-Joon Yim. CT findings and lesion score change of subclinical pulmonary tuberculosis progressing into active disease according to risk factors: implication for contact investigation. Korean Congress of Radiology (KCR), Seoul. October. 2017.
17. Junghoan Park, Soon Ho Yoon, Jin Mo Goo, Helen Hong, Julip Jung, Jeong-Hwa Yoon. Reduced lung elasticity in female patients with interstitial lung disease: histogram analysis and comparison with age, sex-matched normal controls. Korean Congress of Radiology (KCR), Seoul. October 2017.
18. Woohyeon Lim, Chang Min Park, Soon Ho Yoon, Hyun-Ju Lim, Eui Jin Hwang, Jong Hyuk Lee, Jin Mo Goo, Eun Kyoung Hong. Time-Dependent Analysis of Incidence, Risk Factors and Clinical Significance of Pneumothorax after Percutaneous Lung Biopsy. Radiological Society of North America (RSNA), Chicago,

November 2017.

19. Julip Jung, Helen Hong, Junghoan Park, Soon Ho Yoon, Jin Mo Goo. Lung Movement Analysis Based on Deformable Registration for Assessment of the Elasticity of the Lungs in Interstitial Lung Diseases Patients. Radiological Society of North America (RSNA), Chicago, November 2017.

20. Yeon Soo Kim, Soon Ho Yoon, Young Hun Choi, Whal Lee, Jin Mo Goo. Nausea and Vomiting after Exposure to Non-ionic Contrast Media: Prevalence and Risk Factors. Radiological Society of North America (RSNA), Chicago, November 2017.

21. Junghoan Park, Soon Ho Yoon, Jin Mo Goo, Helen Hong, Julip Jung, Jeong-Hwa Yoon. Reduced Lung Elasticity in Female Patients with Interstitial Lung Disease: Histogram Analysis and Comparison with Age, Sex-Matched Normal Controls. Radiological Society of North America (RSNA), Chicago, November 2017.

22. Sanghyup Lee, Soon Ho Yoon, Ju G. Nam, Gi Jeong Cheon, Hwan H. Lee, Jin Mo Goo, Chang Min Park, Hyun-Ju Lee, Chang Hyun Lee. Differentiation of Benign Thymic Cystic Lesion from Thymic Epithelial Tumor: MDCT and 18F-FDG PET. Radiological Society of North America (RSNA), Chicago, November 2017.

23. Eui Jin Hwang, Chang Min Park, Soon Ho Yoon, Hyun-Ju Lim, Jin Mo Goo. Analysis of Risk Factors for Hemoptysis after Percutaneous Transthoracic Needle Biopsies in 4,172 Cases: Focusing on the Effects of Diametrical Enlargement of the Main Pulmonary Artery. Radiological Society of North America (RSNA), Chicago, November 2017.

24. Su Yeon Ahn, Soon Ho Yoon, Young Tae Kim, Chang Hyun Kang, In Kyu Park, Chang Min Park, Jin Mo Goo. Risk of Pleural Recurrence after Percutaneous Transthoracic Needle Biopsy in Stage I Non-Small Cell Lung Cancer: A Large Center Experience. Radiological Society of North America (RSNA), Chicago, November 2017.

25. Hyungjin Kim, Kum Ju Chae, Soon Ho Yoon, Miso Kim, Bhumsuk Keam, Tae Min Kim, Dong-Wan Kim, Jin Mo Goo, Chang Min Park. Repeat Biopsy for the Patients with Acquired Resistance to EGFR TKIs: Implication of Biopsy-related Factors on Detection of T790M Mutation. Radiological Society of North America (RSNA), Chicago, November 2017.

26. Min Jae Cha, Dong Yoon Kang, Whal Lee, Hye Ryun Kang, Soon Ho Yoon, Younghun Choi, Jun Soo Byun, Jongmin Lee, Yun-Hyeon Kim, Ki Seok Choo, Bum Sang Cho, Kyung Nyeo Jeon, Jae Woo Jung. A nationwide multicenter registry study of hypersensitivity reactions to iodinated contrast media in Korea. Korean Congress of Radiology (KCR), Seoul. September, 2018.

27. Soon Ho Yoon, Young Tae Kim, Samina Park, Chang Hyun Kang, In-Kyu Park, Jin Mo Goo. Personalized 3D-printed model of stage I lung cancer for informed consent in surgical resection: A prospective randomized pilot study. Korean Congress of Radiology (KCR), Seoul. September, 2018.

28. Soon Ho Yoon, Eun-Young Kang, Yookyung Kim, Yun-Hyeon Kim, Semin Chong, Yoon Ki Cha, Eun Jin Chae, Jung Hwa Hwang. Development of image atlas, education materials, and standardized radiology report for improving quality of chest X-ray interpretation for tuberculosis. Korean Congress of Radiology (KCR), Seoul. September, 2018.

29. Heekyung Kim, Soon Ho Yoon, Hyun-Ju Lee, Gong Young Jin, Kwang Nam Jin, Kiyeol Lee, Kum Ju Chae, Jin Mo Goo. Juxta-pleural and acutely-folded bronchi: Differential CT findings of IPF without evidence

honeycombing from NSIP. Korean Congress of Radiology (KCR), Seoul. September, 2018.

30. Seungchul Han, Soon Ho Yoon, Whal Lee, Young Hun Choi, Dong Yoon Kang, Hye-Ryun Kang. Management of adverse reactions to iodinated contrast media for CT in Korean referral hospitals: A survey investigation. Korean Congress of Radiology (KCR), Seoul. September, 2018.

31. Byoung Wook Choi, Eun-Young Kang, Myung Jin Chung, Woocheol Kwon, Yookyung Kim, Jung Hwa Hwang, Chul Hwan Park, Soon Ho Yoon, Yoon Ki Cha, Kyunghwa Han, Hwy Young Kim. Factors to evaluate artificial-intelligence-based automated clinical-decisionsupport-system for diagnosis of pulmonary tuberculosis in chest radiography. Korean Congress of Radiology (KCR), Seoul. September, 2018.

32. Chang Hyun Ryoo, Young Hoon Choi, Jung-Eun Cheon, In One Kim, Soon Ho Yoon. Preventive Effect of Changing Contrast Media in Patients with a Prior Mild Acute Hypersensitivity Reaction to Gadolinium-Based Contrast Agent. Radiological Society of North America (RSNA), Chicago, November 2018.

33. Heekyung Kim, Soon Ho Yoon, Hyun-Ju Lee, Gong Young Jin, Kwang Nam Jin, Kiyeol Lee, Kum Ju Chae. Juxta-pleural and acutely-folded bronchi: Differential CT findings of IPF without evidence honeycombing from NSIP. Radiological Society of North America (RSNA), Chicago, November 2018.

34. Young Joo Suh, Hyun-Ju Lee, Jiseon Oh, Pamela K. Sung, Heera Yoen, Sewoo Kim, Seungchul Han, Sungeun Park, Jung Hee Hong, Heekyung Kim, Jiyeon Lim, Hyungjin Kim, Soon Ho Yoon, Young Tae Kim, Yoon Kyung Jeon. A Novel Algorithm to Approach Multiple Lung Cancers with Multiple Pulmonary Sites of Involvement: Differentiation between Multiple Primary Lung Cancers and Intrapulmonary Metastasis. Radiological Society of North America (RSNA), Chicago, November 2018.

35. Hyungjin Kim, Soon Ho Yoon, Jihang Kim, Kyung Won Lee, Ye Ra Choi, Hyoun Cho, Jin Mo Goo. Growth Rates of Thymic Epithelial Tumor and Thymic Cyst: Is Differentiation Feasible? Radiological Society of North America (RSNA), Chicago, November 2018.

36. Eui Jin Hwang, Soon Ho Yoon, Jihang Kim, Ho Yun Lee, Jin Mo Goo, Munyoung Paek, Jeanne B. Ackman. Cut-Off Value of MR Enhancement for Differentiating Benign Cysts from Solid Anterior Mediastinal Lesion: A Preliminary Observation. Radiological Society of North America (RSNA), Chicago, November 2018.

37. Junghoan Park, Soon Ho Yoon, Jin Mo Goo, Helen Hong, Julip Jung, Jeong-Hwa Yoon. CT Quantification of Spatial Heterogeneity of Boundary between Fibrotic and Non-fibrotic Areas in Idiopathic Pulmonary Fibrosis. Japanese Radiology Congress. April 2019.

38. Soon Ho Yoon, Sang Hyup Lee, Jin Mo Goo, Su Yeon Ahn, Heekyung Kim, Jung Hee Hong. Preoperative multi-detector CT criteria for assessing pericardial, lung, and phrenic nerve invasion of thymoma. Asian congress of Thoracic Imaging (ACTI), Shanghai, July 2019

39. Seowoo Lee, Soon Ho Yoon, Young Ae Kang, Ju Sang Kim, Yeon Joo Lee, Jung-Ku Lee, Doosoo Jeon, Jin Mo Goo. Deep neural network to determine the activity of pulmonary tuberculosis on chest radiograph. Korean Congress of Radiology (KCR), Seoul. September, 2019.

40. Eui Jin Hwang, Jin Mo Goo, Soon Ho Yoon, Hye Young Kim, Jaeyoun Yi, Yeol Kim. Variability among expert readers in low-dose CT lung cancer screening: comparison of readings between individual institution and central review in a nationwide lung cancer screening project. Korean Congress of Radiology (KCR), Seoul. September, 2019.

41. Boda Nam, Yeon Joo Jeong, Kwang Nam Jin, Kyung Nyeo Jeon, Soon Ho Yoon, Jin Young Yoo, Ho Yun Lee, Sung Ho Hwang, Hongseok Ko, Woocheol Kwon. Korean Society of Thoracic Radiology guidelines of chest MRI. Korean Congress of Radiology (KCR), Seoul. September, 2019.
42. Seungjin Yoo, Soon Ho Yoon, Jin Mo Goo, Doo Hee Lee. Automated lung segmentation in CT images with abnormalities using deep learning algorithm. Korean Congress of Radiology (KCR), Seoul. September, 2019.
43. Ju Nam, Soon Ho Yoon, Joseph Witanto, Doohee Lee, Prima Sanjaya, Jin Mo Goo. Deep learning-based automated pulmonary vessel segmentation algorithm from noncontrast chest CT images: trained with spatiotemporally matched vessel-maps generated from dual-source CT angiography. Korean Congress of Radiology (KCR), Seoul. September, 2019.
44. Chiheon Kwon, Koung Mi Kang, Young Hun Choi, Soon Ho Yoon, Chul-Ho Sohn, Seung Seok Han. Renal safety of repeated intravascular administration of contrast media within 24 or 48 hours after the exposure of iodinated contrast media. Korean Congress of Radiology (KCR), Seoul. September, 2019.
45. Jin Young Yoo, Kwang Nam Jin, Soon Ho Yoon, Hwan Seok Yong, Moon Young Kim, Ye Ra Choi. Chest imaging in TB screening program. Korean Congress of Radiology (KCR), Seoul. September, 2019.
46. Ieun Yoon, Sang Joon Park, Sanjaya Prima, Doohee Lee, Jae-Joon Yim, Jin Mo Goo, Soon Ho Yoon. Deep neural network for automatic detection and quantification of cavity in nontuberculous mycobacterial disease. Korean Congress of Radiology (KCR), Seoul. September, 2019.
47. Yoonseong Lee, Soon Ho Yoon, Sang Joon Park, Jin Mo Goo. Deep neural network for automated CT analysis of whole body composition. Korean Congress of Radiology (KCR), Seoul. September, 2019.
48. Soon Ho Yoon. 3D + AV Theater: New Patient-tailored Radiology based on a Synergy of Artificial Intelligence and 3D Printing: Presented by Medical IP. Radiological Society of North America (RSNA), Chicago, November 2019
49. Eui Jin Hwang, Jin Mo Goo, Soon Ho Yoon, Hyae Young Kim, Jaeyoun Yi, Yeol Kim. Variability among Expert Readers in Low-Dose CT Lung Cancer Screening: Comparison of Readings between Individual Institution and Central Review in a Nationwide Lung Cancer Screening Project. Radiological Society of North America (RSNA), Chicago, November 2019
50. Seowoo Lee, Soon Ho Yoon, Young Ae Kang, Ju Sang Kim, Yeon Joo Lee, Jung-Ku Lee, Doosoo Jeon, Jin Mo Goo. Deep Neural Network to Determine the Activity of Pulmonary Tuberculosis on Chest Radiograph. Radiological Society of North America (RSNA), Chicago, November 2019
51. Da Som Kim, Soon Ho Yoon, Jin Mo Goo, Eui Jin Hwang, Seungho Lee, Hyunho Park. Standalone and human-integrated performance of deep learning-based automatic lung nodule detection and categorization for lung cancer screening: experience in the Korean lung cancer screening cohort. Korean Congress of Radiology (KCR), Seoul. September, 2020.
52. Jugang Nam, Soon Ho Yoon, Joseph Witanto, Doohee Lee, Sang Joon Park, Jin Mo Goo. Deep learning-based automated pulmonary vessel segmentation algorithm from noncontrast chest CT: assessment of vascular remodeling on COPD patients. Korean Congress of Radiology (KCR), Seoul. September, 2020.
53. Seung Jin Yoo, Soon Ho Yoon, Shohei Inui, Xiaolong Qi, Sang Joon Park, Yeon Joo Jeong. Free AI software for automatic CT quantification of Coronavirus disease 2019: an international collaborative

development, validation, and distribution. Korean Congress of Radiology (KCR), Seoul. September, 2020.

54. June Young Seo, Soon Ho Yoon, Chang Hyun Kang, Eui Jin Hwang, Jin Mo Goo. A 4-year experience of chest MRI dedicated to incidental anterior mediastinal lesions: impact on non-therapeutic thymectomy. Korean Congress of Radiology (KCR), Seoul. September, 2020.

55. Jung Hee Hong, Jeong-Hwa Yoon, Jin Mo Goo, Soon Ho Yoon. Better estimation of whole-body composition by averaging body composition on multi-slice abdominal CT images instead of single-slice CT image. Korean Congress of Radiology (KCR), Seoul. September, 2020.

56. Hyewon Choi, Soon Ho Yoon, Sang Joon Park, Jin Mo Goo. Subclinical CT findings and temporal evolution of the idiopathic pulmonary fibrosis: qualitative and quantitative analysis. Korean Congress of Radiology (KCR), Seoul. September, 2020.

57. Wonju Hong, Chang Min Park, Soon Ho Yoon, Jin Mo Goo. Cone-beam CT guided percutaneous transthoracic needle lung biopsy of juxtaphrenic lesions: diagnostic accuracy and complications. Korean Congress of Radiology (KCR), Seoul. September, 2020.

58. Jong Hyuk Lee, Soon Ho Yoon, Hyunsook Hong, Ji Young Rho. Incidence, risk factors, and prognostic indicators of symptomatic air embolism after percutaneous transthoracic lung biopsy: a systematic review and pooled analysis. Korean Congress of Radiology (KCR), Seoul. September, 2020.

59. Jeong In Yoo, Dong Ho Lee, Soon Ho Yoon. Evaluation of body composition measurements from preoperative CT using convolutional neural network for prediction of pancreatic fistula and overall survival after pancreaticoduodenectomy for pancreatic ductal adenocarcinoma. Korean Congress of Radiology (KCR), Seoul. September, 2021.

60. Min Jong Kim, Soon Ho Yoon. Deep neural network for automatic ascites segmentation on abdominal CT images. Korean Congress of Radiology (KCR), Seoul. September, 2021.

61. Seung-Jin Yoo, Soon Ho Yoon, Young Sik Park, Hye Won Choi, Da Som Kim, Ju Gang Nam. Prospective evaluation of the performance of deep learning image reconstruction on low-dose and ultralow-dose chest CT. Korean Congress of Radiology (KCR), Seoul. September, 2021.

62. Won Ju Hong, Soon Ho Yoon, Jin Mo Goo. CT findings of COVID-19-associated pulmonary aspergillosis: a systematic review and pooled analysis of individual patient images. Korean Congress of Radiology (KCR), Seoul. September, 2021.

63. Ji Young Song, Nam Ki Hong, Soon Ho Yoon, Hye Jin Yoo, Hea Jeong Park, Yu Mie Rhee. 3D U-net for automatic volumetric vertebral segmentation from body CT images for opportunistic osteoporosis screening. Korean Congress of Radiology (KCR), Seoul. September, 2021.

64. Ju Gang Nam, Yunhee Choi, Sang-Min Lee, Soon Ho Yoon, Jin Mo Goo, Hyungjin Kim. Deep learning-based fibrosis quantification on chest CT as a prognostic predictor in patient with idiopathic pulmonary fibrosis. Korean Congress of Radiology (KCR), Seoul. September, 2022.

65. Woo Hyeon Lim, Jong Hyuk Lee, Hyungin Park, Chang Min Park, Soon Ho Yoon. Association of smoking with malignancy and complication rates in percutaneous lung biopsy. Korean Congress of Radiology (KCR), Seoul. September, 2022.

66. Kwang Nam Jin, Hyun Woo Lee, Hyun Jun Yang, Ue-Hwan Kim, Soon Ho Yoon, Jin Mo Goo.

Development and validation of prediction model using deep learning-based chest radiographs score and clinical information in hospitalized patients with COVID-19: multicenter retrospective longitudinal study with KICC-19. Korean Congress of Radiology (KCR), Seoul. September, 2022.

67. Soon Ho Yoon, Jong Hyuk Lee, Baek-Nam Kim. Chest CT findings of COVID-19 in hospitalized patients: a comparison between the Delta and Omicron variants. Korean Congress of Radiology (KCR), Seoul. September, 2022.

68. Hyungin Park, Yong-Gi Hong, Joseph Nathanael Witanto, Jong-Min Kim, Soon Ho Yoon. Volumetric and movement CT analysis of lung parenchyma in prone positioning using deep neural networks. Korean Congress of Radiology (KCR), Seoul. September, 2022.

69. Da Som Kim, Soon Ho Yoon, Seung-Jin Yoo, Junghee Hong. Prospective evaluation of pulmonary diseases using a compact point-of-care flat-panel detector spiral computed tomographic scanner. Korean Congress of Radiology (KCR), Seoul. September, 2022.

70. Yeon Jin Cho, Seul Bi Lee, Soon Ho Yoon, Seunghyun Lee, Young Hun Choi, Jung-Eun Cheon. Can image conversion be a solution for the generalizability of an artificial intelligence-based model? Korean Congress of Radiology (KCR), Seoul. September, 2022.

71. Moon Young Kim, Hack-Lyoung Kim, Soon Ho Yoon, Eun Ju Chun, Doohee Lee, Kwang Nam Jin, Dae Hyun Park. Correlation of indexed epicardial fat volume with target organ damage parameters in subjects with nonobstructive coronary artery disease. Korean Congress of Radiology (KCR), Seoul. September, 2022.

72. Jong Hyuk Lee, Soon Ho Yoon. Increased visceral fat attenuation and impaired long-term survival in a health screening population. Korean Congress of Radiology (KCR), Seoul. September, 2022.

73. Junghoan Park, Ijin Joo, Sun Kyung Jeon, Soon Ho Yoon. Development and clinical feasibility of fully-automated multi-organ segmentation algorithms for nonenhanced abdominal CT and low-dose chest CT: focusing on CT volumetry and 3D radiomics analysis of abdominal organs. Korean Congress of Radiology (KCR), Seoul. September, 2023.

74. Eui Jin Hwang, Hyunsook Hong, Seung-Jin Yoo, Soon Ho Yoon. AI-automated and human-integrated CT quantification of changes in pleural effusion: a single-arm clinical trial. Korean Congress of Radiology (KCR), Seoul. September, 2023.

75. Soon Ho Yoon, Joong-Yub Kim, Seowoo Lee, Nakwon Kwak. Post-treatment radiographic severity and mortality in mycobacterium avium complex pulmonary disease. Korean Congress of Radiology (KCR), Seoul. September, 2023.

76. Ji Young Lee, Jong Hyuk Lee, Soon Ho Yoon, Jin Mo Goo, Jimyung Park. Association between fat depletion during the disease course and prognosis of idiopathic pulmonary fibrosis: CT-based body composition analysis. Korean Congress of Radiology (KCR), Seoul. September, 2023.

77. Seungchul Han, Ijin Joo, Junghoan Park, Soon Ho Yoon. Clinical feasibility of a fully-automated 3D segmentation algorithm of abdominal organs in low-dose chest CT for assessing hepatic steatosis. Korean Congress of Radiology (KCR), Seoul. September, 2023.

78. Soon Ho Yoon, Suh Young Lee, Hyunsook Hong. Skin test for immediate hypersensitivity reaction to iodinated contrast media: an individual patient data meta-analysis. Asian Oceanian Congress of Radiology

(AOCR 2024), March, 2024

79. Jiyoung Song, Kum Ju Chae, Jong Eun Lee, David A Lynch, Soon Ho Yoon. Role of Prone CT in Assessing Interstitial Lung Abnormalities. Korean Congress of Radiology (KCR), Seoul. October, 2024.

80. Jiyoung Song, Kum Ju Chae, Jong Eun Lee, David A Lynch, Soon Ho Yoon. Role of Prone CT in Assessing Interstitial Lung Abnormalities. Radiological Society of North America (RSNA), Chicago, November 2024.

Invited Lectures

1. (Korean) Seoul National University Thoracic Imaging Course 2015: Update in pulmonary Tb and NTM (June 14, 2015; 25 minutes)
2. (Korean) Seoul National University Thoracic Imaging Course 2016: Update in pulmonary Tb and NTM (June 19, 2016; 25 minutes)
3. (Korean) Korean Society of Thoracic Radiology (KSTR) Academic Education 2016: Collagen Vascular Disease (August 14, 2016; 30 minutes)
4. (Korean) Seoul National University Hospital Public Community Health Care Support 2017: Chest X-ray and CT findings in Medical Emergency (May 18, 2017; 30 minutes)
5. (Korean) Seoul National University Thoracic Imaging Course 2017: Lymphoproliferative disorder (June 4, 2017; 25 minutes)
6. (Korean) Korean Society of Thoracic Radiology (KSTR) Academic Education 2017: Congenital Lung Disease (August 20, 2017; 30 minutes)
7. (English) Korean Congress of Radiology (KCR) 2017: MR in mediastinal tumor (October 27, 2017; 25 minutes)
8. (Korean) Dongkuk-Toshiba Imaging Forum 2017: Role of chest X-ray in Tuberculosis (November 10, 2017; 20 minutes)
9. (Korean) Best of World Congress of Lung Cancer: Thoracic intervention: percutaneous needle biopsy in the era of precision medicine (January 13, 2018; 20 minutes)
10. (Korean) Korean Society for Thoracic & Cardiovascular Surgery Annual Symposium 2018: Thymic nodules detected in screening chest CT scan (June 14, 2018; 30 minutes)
11. (Korean) Seoul National University Thoracic Imaging Course 2018: Imaging Update of Idiopathic Pulmonary Fibrosis (June 17, 2018; 30 minutes)
12. (English) International Thymic Malignancy Interest Group Annual Meeting 2018: Management of the incidentally detected prevascular mass (October 26, 2018; 15 minutes)
13. (Korean) Korea Disease Control and Prevention Agency: "Tuberculosis Online Learning" Program: Radiologic Diagnosis of Tuberculosis (October 30, 2018; 1 hour)
14. (English) International Conference of Magnetic Resonance Imaging 2019: UTE MR and application to functional imaging (March 30, 2019; 20 minutes)
15. (English) Invited Talk at Diagnostic and Interventional Radiology, Osaka University: Up-to-date Diagnostic Imaging of Idiopathic Interstitial Pneumonia: Focusing on Idiopathic Pulmonary Fibrosis and Interstitial Lung Abnormalities (April 15, 2019; 1 hour)

16. (Korean) Korean Society for Pharmacoepidemiology and Risk Management Annual Symposium 2019: Guidelines for Contrast Media Use and Clinical Issues Related to CT/MRI (May 23, 2019; 20 minutes)
17. (Korean) Seoul National University Thoracic Imaging Course 2019: Update of IPF diagnosis: ATS/ERS/JRS/ALAT guideline & Interstitial lung abnormalities (June 16, 2019; 25 minutes)
18. (Korean) GE MR&CT Joint Symposium: True-Fidelity Initial Experience Sharing in Chest (July 20, 2019; 20 minutes)
19. (Korean) Korean Society of imaging Informatics in Medicine Annual Conference 2019: Medical AI Application in the Era of 3D Printing and AR/VR (July 27, 2019; 30 minutes)
20. (Korean) Korean Society of Thoracic Radiology (KSTR) Academic Education 2019: Chronic Fibrosing IIP (August 25, 2019; 30 minutes)
21. (Korean) Bracco Thoracic Symposium CT and MR Imaging for Incidental thymic lesions: an update (August 27, 2019; 40 minutes)
22. (English) Korean Congress of Radiology (KCR) 2019: Chest MRI mediastinal application (September 18, 30 minutes)
23. (Korean) Korean Congress of Radiology (KCR) 2019: Medical application of 3D printing and VR/AR (September 21, 2019; 30 minutes)
24. (Korean) Institution of Radiation Medicine Monthly Semina: Sarcopenic obesity in cross-sectional imaging: past, current, and future with deep learning (October 8, 2019; 1 hour)
25. (Korean) Understanding of Korean National Lung Cancer Screening Program and Lung RADS (October 20, 2019; 25 minutes)
26. (Korean) Guerbet Symposium: COVID-19 (March 10, 2020; 30 minutes)
27. (English) Guerbet Asia Pacific Symposium: COVID-19 (April 16, 2020; 30 minutes)
28. (English) COVID-19 Experience Sharing, GE Partners with Singapore Radiology Society: Frontline and clinical sharing for COVID-19 in Korea (April 18, 2020; 30 minutes)
29. (Korean) Seoul National University Thoracic Imaging Course 2020: Percutaneous lung biopsy 2020 KSTR guideline (May 31, 2020; 25 minutes)
30. (English) Bayer-Radiology in COVID-19 webinar: Disease Status in Korea and Expected Role of Chest Imaging in COVID-19 (June 23, 2020; 30 minutes)
31. (Korean) Education for National Lung Cancer Screening Program: Significant Findings Other Than Lung Nodules (June 20, 2020; 30 minutes)
32. (Korean) Korea Disease Control and Prevention Agency: "Tuberculosis Online Learning" Program: Radiologic Diagnosis of Tuberculosis (July 30, 2020; 1 hour)
33. (Korean) Korean Society of Thoracic Radiology (KSTR) Autumn Meeting 2020: KSTR's practices guidelines of PTNB (October 31, 2020; 25 minutes)
34. (Korean) Medical Korea 2021. The present and future of innovative non-face-to-face medical technology in the post-pandemic era (March 18, 2021; 30 minutes)
35. (English) The Asian Oceanian Society of Radiology 2022: Understanding the TB spectrum encompassing subclinical TB and their CT and PET findings (March 24, 2022; 30 minutes)

36. (Korean) Korea Disease Control and Prevention Agency: "Tuberculosis Online Learning" Program: Radiologic Diagnosis of Tuberculosis (April 29, 2022; 1 hour)
37. (Korean) Samsung Medical Center Radiology Grand Round: Radiology education in the COVID-19 era: Telemedicine and virtual radiology (May 10, 2022; 1 hour)
38. (Korean) Functional/Quantitative Lung Imaging Research Group 2022: COVID-19 Radiology-Pathology Correlation (June 17, 2022; 30 minutes)
39. (Korean) Seoul National University Hospital Gangnam Center Conference: Image Understanding of COVID-19 (August 17, 2022; 1 hour)
40. (English) Korean Congress of Radiology (KCR) 2022: Quantification for Body Composition Analysis (September 21, 2022; 20 minutes)
41. (Korean) Korean Congress of Radiology (KCR) 2022: Application of Digital Twin Technologies in Education and Training (September 21, 2022; 30 minutes)
42. (English) Korean Congress of Radiology (KCR) 2022: AI Applications of Segmentation (September 22, 2022; 30 minutes)
43. (Korean) Korean Society of Artificial Intelligence in Medicine 2022: AI-enhanced Patient Twinning (October 13, 2022; 30 minutes)
44. (Korean) Korean Society of Nuclear Medicine Annual Meeting 2022: AI for Medical Image Segmentation: From Bench to Bedside (November 4, 2022; 25 minutes)
45. (English) Asian Pacific Society of Respiriology Congress 2022: The Role of Chest Imaging and Advances in TB Diagnosis (November 18, 2022; 30 minutes)
46. (Korean) 2022 Korean Society of Sarcopenia: MRI/CT for Muscle Mass Assessment (December 3, 2022; 20 minutes)
47. (English) SIGGRAPH Asia 2022: MEDIP-Enabled Medical Image Digital Twinning in NVIDIA OMNIVERSE: MEDICAL IP (December 7, 2022; 20 minutes)
48. (Korean) NVIDIA Omniverse Seminar: Medical Image Digital Twinning by Medical IP Using NVIDIA Omniverse (December 12, 2022; 20 minutes)
49. (Korean) Korean Tuberculosis Research Society Symposium: Radiologic Diagnosis and Applications for NTM Lung Disease (February 20, 2023; 30 minutes)
50. (Korean) Korean Thoracic Radiology Society, Samnam Symposium: Post-COVID Lung Disease (April 7, 2023; 30 minutes)
51. (English) Mongolia AI Symposium: The Role of Chest Imaging and Advances in TB Diagnosis (May 6, 2023; 30 minutes)
52. (Korean) Korea Health Industry Development Institute: Transforming Medical Images into Digital Twins (May 18, 2023; 1 hour)
53. (Korean) Mi2rl Asan Medical Engineering Special Seminar: Evolving Role of Chest X-ray and AI CAD for Tuberculosis (May 31, 2023; 1 hour)
54. (English) International Society of Parenteral and Enteral Nutrition, Korea: Body Composition Assessment Using CT with AI (June 9, 2023; 20 minutes)

55. (English) Asian Congress of Thoracic Imaging (ACTI) 2023: Percutaneous Transthoracic Needle Biopsy: Updates (June 16, 2023; 20 minutes)
56. (Korean) Philips Korea AI in Healthcare Special Lecture: Transforming Medical Images into Digital Twins (June 26, 2023; 1 hour)
57. (Korean) Accuzen Web Symposium: Post-COVID-19 Condition (June 29, 2023; 1 hour)
58. (Korean) NVIDIA SNUH-HCLS Summit Korea 2023: Transforming Medical Images into Digital Twins Using NVIDIA Omniverse (August 25, 2023; 30 minutes)
59. (Korean) Korean Society of Thoracic Radiology (KSTR) Academic Education 2023: Collagen Vascular Disease (August 31, 2023; 30 minutes)
60. (English) European Society of Thoracic Imaging (ESTI) meeting in Rome: Post-acute COVID-19 Sequelae (May 9, 2024; 15 minutes)
61. (Korean) Kangbuk Samsung Medical Center Monthly Semina: Artificial Intelligence Development in Medical Imaging and Image Processing (Apr 24, 2024; 1 hour)
62. (Korean) Korean Society of Artificial Intelligence in Medicine Monthly talk: Current Status of Overseas Research on LLMs in Medical Imaging and Considerations for Domestic Implementation (May 30, 2024; 25 minutes)
63. (English) Annual Meeting of Korean Cancer Association & International Cancer Conference: Advancing medical imaging research and Artificial Intelligence through standardization (June 21, 2024; 20 minutes)
64. (Korean) Contrast Safe Management Symposium 2024: Various Clinical Considerations When Using Contrast Media (July 6, 2024; 20 minutes)
65. (Korean) Korean Society of Artificial Intelligence in Medicine Summer School 2024: Current Status of Overseas Research on LLMs in Medical Imaging and Considerations for Domestic Implementation (August 10, 2024; 30 minutes)
66. (Korean) Korean Society of Thoracic Radiology (KSTR) Academic Education 2024: Pulmonary lymphoproliferative disorder (August 18, 2024; 30 minutes)
67. (Korean) Korean Congress of Radiology (KCR) 2024: Study on the Compliance Status of DICOM Standards Nationwide in Korea (October 2, 2024; 20 minutes)
68. (Korean) Korean Congress of Radiology (KCR) 2024: Chest Image Interpretation (October 2, 2024; 15 minutes)
69. (Korean) Korea Disease Control and Prevention Agency: "Tuberculosis Online Learning" Program 2024: Radiologic Diagnosis of Tuberculosis (October 4, 2024; 1 hour)
70. (English) Korean Congress of Radiology (KCR) 2024: Post-COVID-19 Residual CT Lung Abnormalities (October 5, 2024; 20 minutes)
71. (Korean) Korean Congress of Radiology (KCR) 2024: Multimodal Imaging Standardization in Digital Healthcare (October 5, 2024; 40 minutes)
72. (Korean) 20th Anniversary Medical Research Collaborating Center Symposium: Meta-Analysis and Collaborative Clinical Research Case Studies (October 10, 2024; 20 minutes)
73. (Korean) Seoul National University Thoracic Imaging Course 2024: Pulmonary edema/ARDS with 2023

update (October 10, 2024; 30 minutes)

74. (Korean) Korea Health Information Service (KHIS) Training and Education for Professional Workforce Development: Medical AI (October 25, 2024; 1 hour)

75. (Korean) Canon One Club: Ultra-high Resolution CT for Chest Imaging Using Energy Integrating CT and Deep Learning (November 22, 2024; 40 minutes)

76. (Korean) 3rd SNUH Lee Yung Kyoon Memorial Symposium: Challenges in thymic imaging: Role of radiological imaging for anterior mediastinal mass for differential diagnosis of thymic tumors (December 7, 2024; 15 minutes)

Professional Activities

International Thymic Malignancy Interest Group Annual Meeting, October 2018

Moderator, Scientific Sessions

Korean Congress of Radiology, September 2018

Moderator, Scientific Sessions

Annual Scientific Meeting of Asian Society of Magnetic Resonance in Medicine &

International Congress on Magnetic Resonance Imaging, November 2020

Moderator, Scientific Sessions

Korean Congress of Radiology, September 2023

Moderator, Scientific Sessions

European Society of Thoracic Imaging (ESTI) meeting in Rome, May 2024

Moderator, Scientific Sessions

The Institute of Convergence Medicine with Innovative Technology Academic Festival, September 2024

Judge

Peer Review Activities

Korean Journal of Radiology, 2013 – present

Investigative Radiology, 2018 – present

Associate Editorial Board, 2024 - present

Radiology, 2023 - present

Teaching Activities

Seoul National University College of Medicine

Medical student education (2018 - present)

- Essential Chest Imaging Diagnoses to Know in Clinical Practice (1 hour)
- Case Discussion: Imaging of Thoracic Diseases (1 hour)
- Chest Imaging Diagnostic Techniques and Pattern Analysis (1 hour)

Post-graduate education (2019 - present)

- Updated Imaging Findings of Thymic Epithelial Tumor (1 hour)

Seoul National University Hospital

Radiology resident education (2016 - present)

- Adverse reaction following contrast media (30 minutes)
- X-ray Attenuation, Filter, Grid, Collimator (1 hour)

Intramural Committee Service

Steward, education & training committee

Department of Radiology, Seoul National University Hospital
(January 2019 – December 2022)

Director, contrast media adverse reaction committee

Department of Radiology, Seoul National University Hospital
(September 2021 – present)

Director, computed tomography facilities unit

Department of Radiology, Seoul National University Hospital
(September 2022 – present)

President of clinical professor

Seoul National University Hospital
(January 2024 – present)

Deputy Director, Vision Initiative Team

Seoul National University College of Medicine
(January 2024 – present)

Strategic Planning Director, National Strategic Technology Research Institute

Seoul National University Hospital
(February 2024 – present)

Director, AI supporting center

Seoul National University Hospital
(September 2024 – present)

Community Service

Free medical clinic for foreigners, Raphael Clinic Center (1-2 per year), 2015 - present