

# Curriculum Vitae

Haesung Yoon, M.D, Ph.D

Department of Radiology,  
Severance Hospital, Yonsei University College of Medicine

## EDUCATION

2005.03~2011.02 Yonsei University, College of Medicine, Korea  
2012.09~2017.02 Combined Master's and Doctoral program,  
Yonsei University, Graduate school of Medicine, Korea

## EMPLOYMENT

2011.03~2012.02 Severance Hospital, Yonsei University College of Medicine, Korea  
*Internship*  
2012.03~2016.02 Severance Hospital, Yonsei University College of Medicine, Korea  
*Residency, Department of Radiology*  
2016.03~ 2018.02 Severance Hospital, Yonsei University College of Medicine, Korea  
*Clinical Fellow, Pediatric Radiology,*  
2018.03~2019.02 Severance Hospital, Yonsei University College of Medicine, Korea  
*Clinical assistant professor, Pediatric Radiology,*  
2019.03~ 2020.02 Severance Hospital, Yonsei University College of Medicine, Korea  
*Medical professor, Pediatric Radiology,*  
2020.03~ 2023.02 Severance Hospital, Yonsei University College of Medicine, Korea  
*Clinical assistant professor, Pediatric Radiology,*  
2023.03~ Severance Hospital, Yonsei University College of Medicine, Korea  
*Assistant professor, Pediatric Radiology,*

## LICENSURE

2011 Medical Doctor in Korea (Licence no. 105916)  
2011 Education Commission for Foreign Medical Graduates (ECFMG) (0-878-275-7)  
2017 Board certification in radiology (Licence no. 3512)

## PROFESSIONAL AFFILIATIONS:

1. Member, The Korean Radiological Society (2012~ )
2. Member, The Korean Society of Pediatric Radiology (2017~)
3. Member, The Korean Society of Ultrasound in Medicine (2017~ )

## **RESEARCH ACTIVITIES:**

1. Yoon H, Kim MJ, Yoon CS, Choi J, Shin HJ, Kim HG, et al. Radiation dose and image quality in pediatric chest CT: effects of iterative reconstruction in normal weight and overweight children. *Pediatr Radiol* 2015;45:337-344.
2. Yoon H, Yoon JH, Kim EK, Moon HJ, Park BW, Kim MJ. Adding Ultrasound to the Evaluation of Patients with Pathologic Nipple Discharge to Diagnose Additional Breast Cancers: Preliminary Data. *Ultrasound Med Biol* 2015;41:2099-2107.
3. Yoon H, Yoon D, Yun M, Choi JS, Park VY, Kim EK, et al. Metabolomics of Breast Cancer Using High-Resolution Magic Angle Spinning Magnetic Resonance Spectroscopy: Correlations with <sup>18</sup>F-FDG Positron Emission Tomography-Computed Tomography, Dynamic Contrast-Enhanced and Diffusion-Weighted Imaging MRI. *PLoS One* 2016;11:e0159949.
4. Kim YH, Kim MJ, Shin HJ, Yoon H, Lee MJ. Simplified split-bolus intravenous contrast injection technique for pediatric abdominal CT. *Clin Imaging* 2017;46:28-32.
5. Kim YH, Shin HJ, Sol IS, Kim SY, Kim JD, Yoon H, et al. Lung Clearance Index and Quantitative Computed Tomography of Post-Infectious Bronchiolitis Obliterans in Infants. *Sci Rep* 2017;7:15128.
6. Shin HJ, Lee YS, Yoon H, Kim MJ, Han SW, Kim HY, et al. Testicular volume and elasticity changes in young children with undescended testes. *Med Ultrason* 2017;19:380-385.
7. Yoon JH, Yoon H, Kim EK, Moon HJ, Park YV, Kim MJ. Ultrasonographic evaluation of women with pathologic nipple discharge. *Ultrasonography* 2017;36:310-320.
8. Kim YH, Kim MJ, Shin HJ, Yoon H, Han SJ, Koh H, et al. MRI-based decision tree model for diagnosis of biliary atresia. *Eur Radiol* 2018;28:3422-3431.
9. Kim YY, Kim MJ, Shin HJ, Yoon H, Kim HY, Lee MJ. Interconversion of elasticity measurements between two-dimensional shear wave elastography and transient elastography. *Med Ultrason* 2018;20:127-133.
10. Shin HJ, Kim MJ, Yoon CS, Lee K, Lee KS, Park JC, et al. Motion effects on the measurement of stiffness on ultrasound shear wave elastography: a moving liver fibrosis phantom study. *Med Ultrason* 2018;1:14-20.
11. Shin HJ, Yoon H, Kim MJ, Han SJ, Koh H, Kim S, et al. Liver intravoxel incoherent motion diffusion-weighted imaging for the assessment of hepatic steatosis and fibrosis in children. *World J Gastroenterol* 2018;24:3013-3020.
12. Kim J, Kim MJ, Sol IS, Sohn MH, Yoon H, Shin HJ, et al. Quantitative CT and pulmonary

- function in children with post-infectious bronchiolitis obliterans. *PLoS One* 2019;14:e0214647.
13. Kim J, Yoon H, Lee MJ, Kim MJ, Han K, Han SJ, et al. Clinical utility of mono-exponential model diffusion weighted imaging using two b-values compared to the bi- or stretched exponential model for the diagnosis of biliary atresia in infant liver MRI. *PLoS One* 2019;14:e0226627.
  14. Kim S, Yoon H, Lee MJ, Kim MJ, Han K, Yoon JK, et al. Performance of deep learning-based algorithm for detection of ileocolic intussusception on abdominal radiographs of young children. *Sci Rep* 2019;9:19420.
  15. Shin HJ, Kwak JY, Lee E, Lee MJ, Yoon H, Han K, et al. Texture Analysis to Differentiate Malignant Renal Tumors in Children Using Gray-Scale Ultrasonography Images. *Ultrasound Med Biol* 2019;45:2205-2212.
  16. Shin HJ, Yoon H, Lee YS, Kim MJ, Han SW, Roh YH, et al. Normal Changes and Ranges of Pediatric Testicular Volume and Shear Wave Elasticity. *Ultrasound Med Biol* 2019;45:1638-1643.
  17. Shin J, Kim MJ, Shin HJ, Yoon H, Kim S, Koh H, et al. Quick assessment with controlled attenuation parameter for hepatic steatosis in children based on MRI-PDFF as the gold standard. *BMC Pediatr* 2019;19:112.
  18. Yoon H, Shin HJ, Kim MJ, Han SJ, Koh H, Kim S, et al. Predicting gastroesophageal varices through spleen magnetic resonance elastography in pediatric liver fibrosis. *World J Gastroenterol* 2019;25:367-377.
  19. Yoon H, Shin HJ, Kim MJ, Lee MJ. Quantitative Imaging in Pediatric Hepatobiliary Disease. *Korean J Radiol* 2019;20:1342-1357.
  20. Albakheet SS, Yoon H, Lee MJ, Kim MJ, Park EK, Shim KW, et al. Determining the optimal timing of screening spinal cord ultrasonography to detect filum terminale lipoma in infants. *Ultrasonography* 2020;39:367-375.
  21. Albakheet SS, Yoon H, Shin HJ, Koh H, Kim S, Lee MJ. Bone marrow fat change in pediatric patients with non-alcoholic fatty liver disease. *PLoS One* 2020;15:e0234096.
  22. Lee MH, Shin HJ, Yoon H, Han SJ, Koh H, Lee MJ. Periportal thickening on magnetic resonance imaging for hepatic fibrosis in infantile cholestasis. *World J Gastroenterol* 2020;26:2821-2830.
  23. Lee S, Kim MJ, Lee MJ, Yoon H, Han K, Han SJ, et al. Hepatic subcapsular or capsular flow in biliary atresia: is it useful imaging feature after the Kasai operation? *Eur Radiol* 2020;30:3161-3167.
  24. Shin J, Yoon H, Cha YJ, Han K, Lee MJ, Kim MJ, et al. Liver stiffness and perfusion changes for hepatic sinusoidal obstruction syndrome in rabbit model. *World J*

- Gastroenterol 2020;26:706-716.
25. Yoon H, Lee YS, Lim BJ, Han K, Shin HJ, Kim MJ, et al. Renal elasticity and perfusion changes associated with fibrosis on ultrasonography in a rabbit model of obstructive uropathy. *Eur Radiol* 2020;30:1986-1996.
  26. Albakheet SS, Lee MJ, Yoon H, Shin HJ, Koh H. Psoas muscle area and paraspinal muscle fat in children and young adults with or without obesity and fatty liver. *PLoS One* 2021;16:e0259948.
  27. Choi SM, Shin HJ, Yoon H, Lee M, Lee YS, Han SW, et al. Renal growth slope in children with congenital and acquired solitary functioning kidneys. *Ultrasonography* 2021;40:357-365.
  28. Jung JH, Kim GE, Min IK, Jang H, Kim SY, Kim MJ, et al. Prediction of postinfectious bronchiolitis obliterans prognosis in children. *Pediatr Pulmonol* 2021;56:1069-1076.
  29. Kang C, Shin HJ, Yoon H, Han JW, Lyu CJ, Lee MJ. Differentiation between Clear Cell Sarcoma of the Kidney and Wilms' Tumor with CT. *Korean J Radiol* 2021;22:1185-1193.
  30. Kang C, Yoon H, Shin HJ, Eun HS, In Park K, Lee MJ. Bedside upper gastrointestinal series in the neonatal intensive care unit. *BMC Pediatr* 2021;21:91.
  31. Kim DK, Yoon H, Han K, Kim J, Lee MJ, Kim S, et al. Effect of different driver power amplitudes on liver stiffness measurement in pediatric liver MR elastography. *Abdom Radiol (NY)* 2021;46:4729-4735.
  32. Kim J, Albakheet SS, Han K, Yoon H, Lee MJ, Koh H, et al. Quantitative MRI Assessment of Pancreatic Steatosis Using Proton Density Fat Fraction in Pediatric Obesity. *Korean J Radiol* 2021;22:1886-1893.
  33. Kim J, Shin HJ, Yoon H, Han SJ, Koh H, Kim MJ, et al. Diffusion-Weighted Imaging for Differentiation of Biliary Atresia and Grading of Hepatic Fibrosis in Infants with Cholestasis. *Korean J Radiol* 2021;22:253-262.
  34. Kim PH, Hwang J, Yoon HM, Shin HJ, Yoon H, Lee MJ, et al. Outcome of staging chest CT and identification of factors associated with lung metastasis in children with hepatoblastoma. *Eur Radiol* 2021;31:8850-8857.
  35. Shin HJ, Yoon H, Han SJ, Ihn K, Koh H, Kwon JY, et al. Key imaging features for differentiating cystic biliary atresia from choledochal cyst: prenatal ultrasonography and postnatal ultrasonography and MRI. *Ultrasonography* 2021;40:301-311.
  36. Yoon H, Kim J, Lim HJ, Lee MJ. Image quality assessment of pediatric chest and abdomen CT by deep learning reconstruction. *BMC Med Imaging* 2021;21:146.
  37. Kang C, Yoon H, Park S, Kim J, Han K, Kim S, et al. Initial Abdominal CT and Laboratory Findings Prior to Diagnosis of Crohn's Disease in Children. *Yonsei Med J* 2022;63:675-682.

38. Kim PH, Shin HJ, Yoon HM, Choi YH, Namgoong JM, Kim DY, et al. Children's Hepatic Tumors International Collaboration-Hepatoblastoma Stratification (CHIC-HS) System for Pediatric Patients with Hepatoblastoma: A Retrospective, Hospital-Based Cohort Study in South Korea. *Cancer Res Treat* 2022;54:253-258.
39. Yoon H, Kim J, Lim HJ, Kamiyama N, Oguri T, Koh H, et al. Attenuation Coefficient Measurement Using a High-Frequency (2-9 MHz) Convex Transducer for Children Including Fatty Liver. *Ultrasound Med Biol* 2022;48:1070-1077.
40. Yoon H, Kim MJ, Shin HJ, Lee MJ. Localized cystic disease of the kidney in pediatric patients: Clinical and imaging findings with long term follow up. *J Pediatr Urol* 2022;18:90.e91-90.e98.
41. Yoon H, Lim HJ, Kim J, Lee MJ. [Diagnostic Imaging of Biliary Atresia]. *J Korean Soc Radiol* 2022;83:991-1002.
42. Yoon H, Lim HJ, Kim J, Park KB, Kim HW, Lee MJ. T2 Relaxation Time Changes in the Distal Femoral Condylar Cartilage of Children and Young Adults with Discoid Meniscus. *Cartilage* 2022;13:19476035221085142.
43. Yoon H, Ihn K, Kim J, Lim HJ, Park S, Han SJ, et al. Pre- and Immediate Post-Kasai Portoenterostomy Shear Wave Elastography for Predicting Hepatic Fibrosis and Native Liver Outcomes in Patients With Biliary Atresia. *Korean J Radiol* 2023. <http://dx.doi.org/10.3348/kjr.2022.0586>.