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Present Position: Yeouido St. Mary's Hospital, Radiology, Neuroradiology

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Education

2005.03.01 ~ 2009.02.28: BD of Chemistry, Sogang University, Chemistry, Seoul, Korea

2009.03.01 ~ 2013.02.28: MD, Gachon University College of Medicine and School of Medicine, Incheon, Korea

2020.03.01 ~ 2023.02.28: PhD, University of Ulsan, Medicine, Ulsan, Korea

Post-graduate Education

2013.03.01~2014.02.28: Internship, Gachon University Gill Medical Center, Incheon, Korea

2014.03.01-2018.02.28: Residency of Radiology, Gachon University Gill Medical Center, Seoul, Korea

2018.03.01~ 2020.02.29: Fellowship of Neruoradiology, Asan Medical Center, Seoul, Korea

Research activity as a First Author

1. Paratracheal air cysts are uncommon findings in the pediatric population. Japanese Journal of Radiology. 2016; 34(8):579-84
2. Acute aortic thrombosis following capecitabine chemotherapy in a patient with colon cancer. Journal of the Korean Society of Radiology. 2018;79(3):166-170
3. Advanced imaging parameters improve the prediction of diffuse lower-grade gliomas subtype, IDH mutant with no 1p19q codeletion: added value to the T2/FLAIR mismatch sign. European radiology. 2020;30(2):844-854
4. Diagnostic Accuracy of MRI-based Morphometric Parameters for Detecting Olfactory Nerve Dysfunction. AJNR. 2020;41(9):1698-1702
5. Effect of Injecting Cold 5% Dextrose into Patients with Nerve Damage Symptoms During Thyroid Radiofrequency Ablation. Endocrinology and Metabolism. 2020;35:407-415
6. Clinical Practice Guidelines for Radiofrequency Ablation of Benign Thyroid Nodules: A Systematic Review. Ultrasonography. 2021;40(2):256-264
7. Identification of the intraparotid facial nerve on MRI: a systematic review and meta-analysis. European radiology. 2021;31(2):629-639
8. Diffusion-weighted MRI for predicting treatment response in patients with nasopharyngeal carcinoma: a systematic review and meta-analysis. Scientific Reports. 2021;23(11):18986
9. Radiofrequency ablation of recurrent thyroid cancers: anatomy-based management. Ultrasonography. 2022;41(3):434-443
10. Correlation between radiologic depth of invasion and pathologic depth of invasion in oral cavity squamous cell carcinoma: A systematic review and meta-analysis. Oral oncology. [Epub]
11. Standardized Imaging and Reporting for Thyroid Ultrasound: Korean Society of Thyroid Radiology Consensus Statement and Recommendation. KJR. 2023;24(1):22-30
12. Diagnostic Performance of Ultrasound-Based Stratification Systems for Thyroid Nodules: A Systematic Review and Meta-Analysis. 2023;38(1), 117-128

Research activity as a Corresponding Author

1. Diagnostic Performance of Ultrasound-Based Risk Stratification Systems for Thyroid Nodules: A Systematic Review and Meta-Analysis. *EnM.* 2023;38(1):117-128

Research activity as a co-first Author

1. Laser and radiofrequency ablations for benign and malignant thyroid tumors. *International Journal of Hyperthermia.* 2019;36(2):13-20

2. Neuroimaging findings of brain MRI and CT in patients with COVID-19: A systematic review and meta-analysis. *Eur J Radiol.* [E-pub]

3. Effect of olfactory bulb atrophy on the success of olfactory training. *Eur Arch Otochinalaryngol.* 2022;279(3):1383-1389

4. Preoperative Magnetic Resonance Image and Computerized Tomography Findings Predictive of Facial Nerve Invasion in Patients with Parotid Cancer without Preoperative Facial Weakness: A Retrospective Observational Study. *Cancers.* 2022;14(4):1086

5. MRI-based demonstration of the normal glymphatic system in a human population: A systematic review. *Frontiers in Neurology* 2022;13:827398

Research activity as a Co-Author

1. Computer-Aided Diagnosis System for the Evaluation of Thyroid Nodules on Ultrasonography: Prospective Non-Inferiority Study according to the Experience Level of Radiologists. *Korean J radiol.* 2020;21(3):369-376

2. CT and MRI findings of Glomangiopericytoma in the Head and Neck: Case Series Study and Systematic Review. *Am J Neuroradiol.* 2020;41(1):155-159

3. Comparison of diagnostic performance between CT and MRI for detection of cartilage invasion for primary tumor staging in patients with laryngo-hypopharyngeal cancer: a systematic review and meta-analysis. *European radiology.* 2020;30(7):3802-3812

4. Deep learning-based segmentation to establish East Asian normative volumes using multisite structural MRI. *Diagnostics.* 2020;11(1):13

5. Split-Attention U-Net: A Fully Convolutional Network for Robust Multi-Label

Segmentation from Brain MRI. Brain Sciences. 2020;10(12):974

6. Semi-supervised Learning in Medical MRI Segmentation: Brain Tissue with White Matter Hyperintensity Segmentation Using FLAIR MRI. Brain Sciences 2021;11(6):720

7. 2020 Imaging Guidelines for Thyroid Nodules and Differentiated Thyroid Cancer: Korean Society of Thyroid Radiology. KJR. 2021;22(5):840-860

8. Development of Random Forest Algorithm Based Prediction Model of Alzheimer's Disease Using Neurodegeneration Pattern. Psychiatry Investigation. 2021;18(1):69-79

9. Deep convolutional neural network for classification of thyroid nodules on ultrasound: Comparison of the diagnosis performance with that of radiologists. Eur J Radiol. [E-pub]

10. Diagnosis of nasal bone fractures on plain radiographs via convolutional neural networks. Scientific Reports. 2022;12(1):21510

Scientific Presentation and Exhibits (International Conference)

1. Isotropic 3D SPACE 3T MRI Compared to 2D Sequences in Detecting Isolated Anteromedial or Posterolateral Bundle Tears of ACL of the Knee. Korean Congress of Radiology, September, 2014, Seoul, Korea.

2. Paratracheal Air Cysts are Uncommon Findings in the Pediatric Population. Korean Congress of Radiology, September, 2015, Seoul, Korea.

3. T2* Mapping of Articular Cartilage after ACL Reconstruction. Korean Congress of Radiology, September, 2015, Seoul, Korea.

4. Diagnosis of Early-stage Idiopathic Parkinson's Disease Using High-resolution Quantitative Mapping with Histogram Analysis in the Substantia Nigra at 3T. Korean Congress of Radiology, September, 2016, Seoul, Korea.

5. Evaluation of Spontaneous Subarachnoid Hemorrhage: A Feasibility Study Using 70-kVp and Low-Iodine-Load CTA. Korean Congress of Radiology, September, 2016, Seoul, Korea.

6. Direct Measurement of breast Surface Dose during Coronary CT Angiography and Effectiveness of Lower Tube Voltage and Cranial Breast Displacement to Reduce Breast Radiation Exposure. Korean Congress of Radiology, September, 2016, Seoul, Korea.

7. Diagnosis of Early-stage Idiopathic Parkinson's Disease Using High-resolution Quantitative Mapping with Histogram Analysis in the Substantia Nigra at 3T. The Radiologic Society of North America, December, 2016, Chicago, USA.
8. Evaluation of Spontaneous Subarachnoid Hemorrhage: A Feasibility Study Using 70-kVp and Low-Iodine-Load CTA. The Radiologic Society of North America, December, 2016, Chicago, USA.
9. Direct Measurement of breast Surface Dose during Coronary CT Angiography and Effectiveness of Lower Tube Voltage and Cranial Breast Displacement to Reduce Breast Radiation Exposure. The Radiologic Society of North America, December, 2016, Chicago, USA.
10. Physiologic imaging parameters improve the prediction of diffuse lower-grade gliomas subtype, IDH mutant with no 1p19q codeletion: added value to the T2/FLAIR mismatch sign. International Congress on Magnetic Resonance Imaging. March, 2019, Seoul, Korea.
11. Physiologic imaging parameters improve the prediction of diffuse lower-grade gliomas subtype, IDH mutant with no 1p19q codeletion: added value to the T2/FLAIR mismatch sign. American Society of Neuroradiology. May, 2019, Boston, USA
12. Diagnostic Accuracy of Morphometric Parameters for Detecting Olfactory Nerve Dysfunction Using High-resolution MRI. Korean Congress of Radiology. September, 2019, Seoul, Korea.
13. Summary of the Variable International Opinions of RFA for Thyroid Disease. Korean Congress of Radiology. September, 2019, Seoul, Korea.
14. Diagnostic Accuracy of Morphometric Parameters for Detecting Olfactory Nerve Dysfunction Using High-resolution MRI. American Society of Head & Neck Radiology. October, 2019, Arizona, US.
15. Radiofrequency Ablation for Recurrent Thyroid Cancer. Korean Congress of Radiology. September, 2020, Seoul, Korea. [Grand Prix]
16. Identification of the intraparotid facial nerve on MRI: a systematic review and meta-analysis. Korean Congress of Radiology. September, 2020, Seoul, Korea.
17. Radiofrequency Ablation for Recurrent Thyroid Cancer. The Radiologic Society of North

America, December, 2020, Chicago, USA.

18. MRI-based Demonstration of the Normal Glymphatic System in a Human Population: A Systematic Review. AOCNR, April, 2021, Seoul, Korea.

19. Imaging Guidelines and Standardization of Reporting Formats for Thyroid US: Korean Society of Thyroid Radiology. KSUM, May, 2021, Seoul, Korea.

20. Olfactory bulb height on MRI correlates with normal aging: Korean population study. ASNR, May, 2022, New York, USA.

21. Association of MRI-based imaging parameters, including CAA, CMBs, and WMH, with cognitive decline. ASNR, May, 2022, New York, USA.

22. The comparison of efficacy and safety between RFA and RFA with EA in treatment of benign thyroid nodule. ACTA, October, 2022, Seoul, Korea.

23. Radiofrequency Ablation for Recurrent Thyroid Cancer. ACTA, October, 2022, Seoul, Korea.

24. Correlation between radiologic depth of invasion and pathologic depth of invasion in oral cavity squamous cell carcinoma. RSNA, December, 2022, Chicago, USA.

25. Clinical Practice Guidelines for Radiofrequency Ablation of Benign Thyroid Nodules and Malignant Thyroid Cancers: A Systematic Review. ETA, September, 2023, Milan, Italy.

26. Diagnostic performance of core needle biopsy as a diagnostic tool for lymphoma patients: A systematic review and meta-analysis. KCR, September, 2023, Seoul, Korea.