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Associate professor

Subspecialty: neuroradiology and molecular imaging

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Education

1996-2001 Seoul National University, College of Medicine

2003-2006 Seoul National University, College of Medicine, Radiology (post-graduate school, doctorate degree)

Internship

2001-2002 Seoul National University Hospital

Residency

2002-2006 Seoul National University Hospital, Department of Radiology

Career

2006-(2009): Chairman (Captain) in Department of Radiology, Armed Forces Capital Hospital

2009.5 ~ 2010.2: Post-doc chief researcher, Seoul National University BK21 center

2010.3 ~2013.8: Assistant professor, Department of Radiology, Seoul National University Hospital

2013.9 ~ present: Associate professor, Department of Radiology, Seoul National University Hospital

2013.3 ~ present: Section editor (Korean Journal of Radiology, Journal of Korean Society of Magnetic Resonance Medicine)

2012.3 ~ present: reviewer (Radiology, Clinical Cancer Research, American Journal of Neuroradiology, Neuroradiology, Journal of Neurooncology, Investigative Radiology, Journal of neuroimaging, Journal of Magnetic Resonance Imaging, NMR in biomed)

Awards

2003 Certificat of Merit, RSNA

2004, 2005 Excellent resident award (academic field) in SNUH

2005 Cum Laude, RSNA

2006 6th young Schweitzer award (academic field) in Association of Korean Medical Education

- 2006, 2008 Excellent publication award (KCR)
- 2007 Invitation to IRIYA (Introduction to Research for International Young Academics) of RSNA
- 2010 Excellent oral presenter (KSMRM)
- 2012 Young investigator award in SNUH
- 2013 Excellent researcher award in SNUH
- 2014 Young investigator award in Korean Society of Radiology

Publication

1st author

1. Choi SH, Chung JW, Lee HS. Hepatocellular carcinoma supplied by portal flow after repeated transcatheter arterial chemoembolization. *AJR Am J Roentgenol* 2003; 181:889-890.
2. Choi SH, Goo JM, Kim HC, Im JG. Pulmonary arteriovenous fistulas developed after chemotherapy of metastatic choriocarcinoma. *AJR Am J Roentgenol* 2003; 181:1544-1546.
3. Choi SH, Lee JM, Lee KH, Kim SH, Kim YJ, An SK, Han JK, Choi BI. Relationship between various patterns of transient increased hepatic attenuation on CT and portal vein thrombosis related to acute cholecystitis. *AJR Am J Roentgenol* 2004; 183:437-442.
4. Choi SH, Han JK, Kim SH, Lee JM, Lee KH, Kim YJ, An SK, Choi BI. Intussusception in adults: from stomach to rectum. *AJR Am J Roentgenol* 2004; 183:691-698.
5. Choi SH, Kim SH, Choi HJ, Park BK, Lee HJ. Preoperative magnetic resonance imaging staging of uterine cervical carcinoma: results of prospective study. *J Comput Assist Tomogr* 2004; 28:620-627.
6. Choi SH, Han JK, Lee JM, Lee KH, Kim SH, Lee JY, Choi BI. Differentiating malignant from benign common bile duct stricture with multiphasic helical CT. *Radiology* 2005; 236:178-183.
7. Choi SH, Lee JM, Lee KH, Kim SH, Lee JY, Han JK, Choi BI. Postbiopsy splenic bleeding in a dog model: comparison of cauterization, embolization, and plugging of the needle tract. *AJR Am J Roentgenol* 2005; 185:878-884.
8. Choi SH, Han MH, Moon WK, Son KR, Won JK, Kim JH, Kwon BJ, Na DG, Weinmann HJ, Chang KH. Cervical Lymph Node Metastases: MR Imaging of Gadofluorine M and Monocrystalline Iron Oxide Nanoparticle-47 in a Rabbit Model of Head and Neck Cancer. *Radiology*. 2006; 241:753-762.
9. Choi SH, Moon WK, Hong JH, Son KR, Cho N, Kwon BJ, Lee JJ, Chung JK, Min HS, Park SH. Detection of lymph node metastasis: comparison of USPIO enhanced MR Imaging and PET/CT in a rabbit model. *Radiology*. 2007; 242:137-143.
10. Choi SH, Kwon BJ, Na DG, Kim JH, Han MH, Chang KH. Pituitary adenoma, craniopharyngioma, and Rathke cleft cyst involving both intrasellar and suprasellar regions: differentiation with MR imaging. *Clinical Radiology*. 2007; 62:453-462.
11. Choi SH, Lee JM, Yu NC, Suh KS, Jang JJ, Kim SH, Choi BI. Hepatocellular carcinoma in liver transplantation candidates: detection with gadobenate dimeglumine-enhanced MRI. *AJR Am J Roentgenol*. 2008; 191:529-536.
12. Choi SH, Kim KH, Moon WK, Kim HC, Cha JH, Paik JH, Chang KH. Detection of Lymph Node Metastases with the use of USPIO-enhanced MR Imaging: Comparison at 1.5 versus 3.0 T in a Rabbit Model. *JMRI* 2010; 31:134-141.
13. 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 Jul;45(7):427-436.

14. Choi SH, Moon WK. Contrast-enhanced MR imaging of lymph nodes in cancer patients. *Korean J Radiol.* 2010 Jul;11(4):383-394.
15. Choi SH, Yoon BR, Oh JS, Han MH, Lee JY, Cho HR, Kim MJ, Rhee K, Jho JY. Development of Endovascular Vibrating Polymer Actuator Probe for Mechanical Thrombolysis: a Phantom Study. *ASAIO J.* 2011 Jul-Aug;57(4):286-292.
16. Choi SH, Paeng JC, Sohn CH, Pagsisihan JR, Kim YJ, Kim KG, Jang JY, Yun TJ, Kim JH, Han MH, Chang KH. Correlation of FDG Uptake with Apparent Diffusion Coefficient Ratio Measured on Standard and High b Value Diffusion MRI in Head and Neck Cancer. *J Nucl Med.* 2011 Jul;52(7):1056-1062.
17. Choi SH, Cho HR, Kim HS, Kim YH, Kang KW, Kim H, Moon WK. Imaging and quantification of metastatic melanoma cells in lymph nodes with a ferritin MR reporter in living mice. *NMR Biomed.* 2012 May;25(5):737-745.
18. Cho HR, Choi SH, Lee N, Hyeon T, Kim H, Moon WK. Macrophages homing to metastatic lymph nodes can be monitored with ultrasensitive ferromagnetic iron-oxide nanocubes and a 1.5T clinical MR scanner. *PLoS ONE.* 2012;7(1):1. (co-first author).

Corresponding author

1. Yoo RE, Choi SH, Park SH, Jung HW, Kim JH, Sohn CH, Chang KH. Primary Intracerebral Malignant Fibrous Histiocytoma: CT, MRI, and PET-CT Findings. *J Neuroimaging.* 2013 Jan;23(1):141-4.
2. Oh MH, Lee N, Kim H, Park SP, Piao Y, Lee J, Jun SW, Moon WK, Choi SH, Hyeon T. Large-Scale Synthesis of Bioinert Tantalum Oxide Nanoparticles for X-ray Computed Tomography Imaging and Bimodal Image-Guided Sentinel Lymph Node Mapping. *J Am Chem Soc.* 2011 Apr 13;133(14):5508-5515.
3. Kim BH, Lee N, Kim H, An K, Park YI, Choi Y, Shin K, Lee Y, Kwon SG, Na HB, Park JG, Ahn TY, Kim YW, Moon WK, Choi SH, Hyeon T. Large-scale Synthesis of Uniform and Extremely Small-sized Iron Oxide Nanoparticles for High-resolution T1 Magnetic Resonance Imaging Contrast Agents. *J Am Chem Soc.* 2011 Aug 17;133(32):12624-12631.
4. Kang Y, Choi SH, Kim YJ, Kim KG, Sohn CH, Kim JH, Yun TJ, Chang KH. Histogram analysis of the apparent diffusion coefficient map of standard and high b-value diffusion MR imaging of gliomas: A correlation study with tumor grade. *Radiology.* 2011 Dec;261(3):882-890.
5. Ahn SJ, Choi SH, Kim YJ, Kim KG, Shon CH, Han MH, Chang KH. Histogram analysis of apparent diffusion coefficient map of standard and high b-value diffusion MR imaging in head and neck squamous cell carcinoma: A correlation study with histological grade. *Academic Radiology.* 2012 Oct;19(10):1233-1240.
6. Sunwoo L, Choi SH, Park CK, Kim JW, Yi KS, Lee WJ, Yoon TJ, et al. Correlation between

apparent diffusion coefficient values measured by diffusion MR imaging and MGMT promoter methylation semi-quantitatively analyzed with MS-MLPA in patients with glioblastoma multiforme. *JMRI*. 2013 Feb;37(2):351-358.

7. Jung SH, Yoon B, Choi SH, et al. Development of Endovascular Vibrating Polymer Actuator Probe for Mechanical Thrombolysis: In vivo study. *ASAIO journal*. 2012 Sep-Oct;58(5):503-508.
8. Lee N, Cho HR, Oh MH, Yi SH, Kim K, Kim BH, Shin K, Ahn TY, Kim YW, Choi SH, Hyeon T. Multifunctional Fe₃O₄/TaO_x Core/Shell Nanoparticles for Simultaneous Magnetic Resonance Imaging and X-ray Computed Tomography. *J Am Chem Soc*. 2012 Jun 27;134(25):10309-10312.
9. Lee N, Choi Y, Lee Y, Park M, Moon WK, Choi SH, Hyeon T. Water-Dispersible Ferrimagnetic Iron Oxide Nanocubes with Extremely High r₂ Relaxivity for Highly Sensitive in vivo MRI of Tumors. *Nano Letters*. 2012 Jun 13;12(6):3127-3131.
10. Cho HR, Wen H, Ryu YJ, Ahn Y, Kim HC, Moon WK, Han MH, Park S, Choi SH. An HR-MAS NMR metabolomics approach for the diagnosis of leptomeningeal carcinomatosis in an animal model. *Cancer Research*. 2012 Oct 15;72(20):5179-5187.
11. Lee WJ, Choi SH, Park CK, Yi KS, Kim TM, Lee SH, Kim JH, Sohn CH, Park SH, Kim IH. Diffusion-weighted MR Imaging for the Differentiation of True Progression from Pseudoprogression Following Concomitant Radiotherapy with Temozolomide in Patients with Newly Diagnosed High-grade Gliomas. *Acad Radiol*. 2012 Nov;19(11):1353-1361.
12. Yoo RE, Choi SH, Cho HR, Kim TM, Lee SH, Park CH, Park SH, Kim IH, Yun TJ, Kim JH, Sohn CH, Han MH, Chang KH. Cerebral Blood Flow from Arterial Spin Labeling Perfusion Magnetic Resonance Imaging: A Key Parameter in Distinguishing High-grade Gliomas from Primary Cerebral Lymphomas, and an Imaging Biomarker for Genetic Alterations in High-grade Gliomas. *JMRI*. 2013 Oct;38(4):852-860.
13. Hwang EJ, Cha Y, Lee AR, Yun TJ, Kim TM, Park CK, Kim JH, Sohn CH, Park SH, Kim IH, Heo DS, Lee SH, Choi SH. Early Response Evaluation for Recurrent High Grade Gliomas Treated with Bevacizumab: A Volumetric Analysis using Diffusion-weighted Imaging. *Journal of Neuro-oncology*. 2013 May;112(3):427-435.
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15. Hwang I, Choi SH, Kim YJ, Kim KG, Lee AL, Yun TJ, Kim JH, Sohn CH. Differentiation of Recurrent Tumor and Post-treatment Changes in Head and Neck Squamous Cell Carcinoma: Application of High b-value Diffusion-weighted Imaging. *AJNR Am J Neuroradiol*. 2013 Dec;34(12):2343-2348.
16. Chu HH, Choi SH, et al. Differentiation of True Progression from Pseudoprogression in Glioblastoma Treated with Radiotherapy Plus Concomitant Temozolomide Using Apparent

Diffusion Coefficient Value by Histogram Analysis : A Comparison Study of Standard ($b=1000$ sec/mm²) and High b Value ($b=3000$ sec/mm²) Diffusion-weighted Imaging. *Radiology*. 2013 Dec;269(3):831-840.

17. Jung SC, Choi SH, Yeom JA, Kim JH, Ryoo I, Kim SC, Shin H, Lee AL, Yun TJ, Park CK, Sohn CH, Park SH. Cerebral blood volume analysis in glioblastomas using dynamic susceptibility contrast-enhanced perfusion MRI: A comparison of manual and semiautomatic segmentation methods. *Plos One*. 2013;8(8):e69323.
18. Song YS, Choi SH, Park CK, Yi KS, Lee WJ, Yun TJ, Kim TM, Lee SH, Kim JH, Sohn CH, Park SH, Kim IH, Jahng GH, Chang KH. True Progression versus Pseudoprogression in the Treatment of Glioblastomas: A Comparison Study of Normalized Cerebral Blood Volume and Apparent Diffusion Coefficient by Histogram Analysis. *Korean J Radiol*. 2013 Jul;14(4):662-672.
19. Ryoo I, Choi SH, Kim JH, Sohn CH, Kim SC, Shin HS, Yeom JA, Jung SC, Lee AL, Yun TJ, Park CK, Park SH. Cerebral Blood Volume Calculated by Dynamic Susceptibility Contrast-Enhanced Perfusion MR Imaging: Preliminary Correlation Study with Glioblastoma Genetic Profiles. *PLoS One*. 2013 Aug 19;8(8):e71704.
20. Cho HR, Kim DH, Kim D, Doble P, Bishop D, Hare D, Park CK, Moon WK, Han MH, Choi SH. Magnetic resonance imaging of malignant glioma using 5-aminolevulinic acid in an animal model. *Radiology*. 2014 Sep;272(3):720-730.
21. Jung SC, Yeom JA, Kim JH, Ryoo I, Kim SC, Shin H, Lee AL, Yun TJ, Park CK, Sohn CH, Park SH, Choi SH. Glioma: Application of Histogram Analysis of Pharmacokinetic Parameters from T1-Weighted Dynamic Contrast-Enhanced MR Imaging to Tumor Grading. *AJNR Am J Neuroradiol*. 2014 Jun;35(6):1103-1110.
22. An YJ, Cho HR, Kim TM, Keam B, Kim JW, Wen H, Park CK, Lee SH, Im SA, Kim JE, Choi SH, Park S. An NMR metabolomics approach for the diagnosis of leptomeningeal carcinomatosis in lung adenocarcinoma cancer patients. *Int J Cancer*. 2015 Jan 1;136(1):162-171.
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24. Yoo RE, Choi SH, Cho HR, Jeon BS, Kwon E, Kim EG, Park J, Myeong WJ, Won JK, Lee YS, Kim JH, Park SW, Sohn CH. Magnetic Resonance Imaging Diagnosis of Metastatic Lymph Nodes in a Rabbit Model: Efficacy of PJY10, a New Ultrasmall Superparamagnetic Iron Oxide Agent, with Monodisperse Iron Oxide Core and Multiple-Interaction Ligands. *PLoS One*. 2014 Sep 12;9(9):e107583.
25. Wen H, Cho HR, Yun T, Kim H, Park CK, Lee SH, Choi SH, Park S. Metabolomic comparison between cells overexpressing isocitrate dehydrogenase 1 and 2 mutants and the effects of an inhibitor on the metabolism. *J Neurochem*. 2015 Jan;132(2):183-193.
26. Ryu YJ, Choi SH, Park SJ, Yun TJ, Kim JH, Sohn CH. Glioma: application of whole-tumor

texture analysis of diffusion-weighted imaging for the evaluation of tumor heterogeneity. *PLoS One*. 2014 Sep 30;9(9):e108335.

27. Yun TJ, Park CK, Kim TM, Lee SH, Kim JH, Sohn CH, Park SH, Kim IH, Choi SH. Glioblastoma Treated with Concurrent Radiation Therapy and Temozolomide Chemotherapy: Differentiation of True Progression from Pseudoprogression with Quantitative Dynamic Contrast-enhanced MR Imaging. *Radiology*. 2015 Mar;274(3):830-840.
28. Yoo RE, Cho HR, Choi SH, Won JK, Kim JH, Sohn CH. Optimization of Ultrasmall Superparamagnetic Iron Oxide (P904)-enhanced Magnetic Resonance Imaging of Lymph Nodes: Initial Experience in a Mouse Model. *Anticancer Res*. 2014 Oct;34(10):5389-5396.
29. Lee S, Choi SH, Ryoo I, Yoon TJ, Kim TM, Lee SH, Park CK, Kim JH, Sohn CH, Park SH, Kim IH. Evaluation of the microenvironmental heterogeneity in high-grade gliomas with IDH1/2 gene mutation using histogram analysis of diffusion-weighted imaging and dynamic-susceptibility contrast perfusion imaging. *J Neurooncol*. 2015 Jan;121(1):141-150.
30. Kim JH, Choi SH, Ryoo I, Yun TJ, Kim TM, Lee SH, Park CK, Kim JH, Sohn CH, Park SH, Kim IH. Prognosis prediction of measurable enhancing lesion after completion of standard concomitant chemoradiotherapy and adjuvant temozolomide in glioblastoma patients: application of dynamic susceptibility contrast perfusion and diffusion-weighted imaging. *PLoS One*. 2014 Nov 24;9(11):e113587.
31. Chae HD, Choi SH, Park SH, Jung HW, Yun TJ, Kim JH, Sohn CH. Organized hematoma developed after suboccipital craniectomy. *J Neuroimaging*. 2014 Nov-Dec;24(6):610-612.
32. Kim SJ, Cho HR, Cho KW, Qiao S, Rhim JS, Soh M, Kim T, Choi MK, Choi C, Park I, Hwang NS, Hyeon T, Choi SH, Lu N, Kim DH. Multifunctional cell-culture platform for aligned cell sheet monitoring, transfer printing, and therapy. *ACS Nano*. 2015 Mar 24;9(3):2677-2688.
33. Son D, Lee J, Lee DJ, Ghaffari R, Yun S, Kim SJ, Lee JE, Cho HR, Yoon S, Yang S, Lee S, Qiao S, Ling D, Shin S, Song JK, Kim J, Kim T, Lee H, Kim J, Soh M, Lee N, Hwang CS, Nam S, Lu N, Hyeon T, Choi SH, Kim DH. Bioresorbable Electronic Stent Integrated with Therapeutic Nanoparticles for Endovascular Diseases. *ACS Nano*. 2015 Jun 23;9(6):5937-5946.
34. Kim JE, Cho HR, Xu WJ, Kim JY, Kim SK, Kim SK, Park SH, Kim H, Lee SH, Choi SH, Park S, Park CK. Mechanism for enhanced 5-aminolevulinic acid fluorescence in isocitrate dehydrogenase 1 mutant malignant gliomas. *Oncotarget*. 2015 Aug 21;6(24):20266-20277.
35. Cho HR, Lee Y, Doble P, Bishop D, Hare D, Kim YJ, Kim KG, Jung HS, Park KS, Choi SH, Moon WK. Magnetic resonance imaging of the pancreas in streptozotocin-induced diabetic rats: Gadofluorine P and Gd-DOTA. *World J Gastroenterol*. 2015 May 21;21(19):5831-5842.
36. Sunwoo L, Choi SH, Yoo RE, Kang KM, Yun TJ, Kim TM, Lee SH, Park CK, Kim JH, Park SW, Sohn CH, Won JK, Park SH, Kim IH. Paradoxical perfusion metrics of high-grade gliomas with an oligodendroglioma component: quantitative analysis of dynamic susceptibility contrast perfusion MR imaging. *Neuroradiology*. 2015 Nov;57(11):1111-1120.

37. Yoo DH, Song SW, Yun TJ, Kim TM, Lee SH, Kim JH, Sohn CH, Park SH, Park CK, Kim IH, Choi SH. MR Imaging Evaluation of Intracerebral Hemorrhages and T2 Hyperintense White Matter Lesions Appearing after Radiation Therapy in Adult Patients with Primary Brain Tumors. *PLoS One*. 2015 Aug 31;10(8):e0136795.
38. Yoo RE, Choi SH, Kim TM, Lee SH, Park CK, Park SH, Kim IH, Yun TJ, Kim JH, Sohn CH. Independent Poor Prognostic Factors for True Progression after Radiation Therapy and Concomitant Temozolomide in Patients with Glioblastoma: Subependymal Enhancement and Low ADC Value. *AJNR Am J Neuroradiol*. 2015 Oct;36(10):1846-1852.
39. Lee H, Lee Y, Song C, Cho HR, Ghaffari R, Choi TK, Kim KH, Lee YB, Ling D, Lee H, Yu SJ, Choi SH, Hyeon T, Kim DH. An endoscope with integrated transparent bioelectronics and theranostic nanoparticles for colon cancer treatment. *Nature Communications*. 2015 Nov 30;6:10059.
40. Yoo RE, Choi SH. Recent application of advanced MR imaging for the prediction of pseudoprogression in high-grade glioma patients. *Magnetic Resonance in Medical Sciences*. 2015 Dec 28. [Epub ahead of print].
41. Lee EK, Choi SH, Yun TJ, Kang KM, Kim TM, Lee SH, Park CK, Park SH, Kim IH. Prediction of Response to Concurrent Chemoradiotherapy with Temozolomide in Glioblastoma: Application of Immediate Post-Operative Dynamic Susceptibility Contrast and Diffusion-Weighted MR Imaging. *Korean J Radiol*. 2015 Nov-Dec;16(6):1341-8.
42. Heo H, Kim S, Lee HH, Cho HR, Xu WJ, Lee SH, Park CK, Park S, Choi SH, Kim H. On the Utility of Short Echo Time (TE) Single Voxel 1H-MRS in Non-Invasive Detection of 2-Hydroxyglutarate (2HG); Challenges and Potential Improvement Illustrated with Animal Models Using MRUI and LCMoel. *PLoS One*. 2016 Jan 28;11(1):e0147794.
- 43.

Co-author

1. Kim HC, Lee JM, Choi SH, Kim KW, Kim SH, Lee JY, Han JK, Choi BI. Imaging of gastrointestinal stromal tumors. *J Comput Assist Tomogr*. 2004 Sep-Oct;28(5):596-604.
2. Lee JM, Han JK, Kim SH, Choi SH, An SK, Han CJ, Choi BI. Bipolar radiofrequency ablation using wet-cooled electrodes: an in vitro experimental study in bovine liver. *AJR Am J Roentgenol*. 2005 Feb;184(2):391-7.
3. Lee JM, Han JK, Choi SH, Kim SH, Lee JY, Shin KS, Han CJ, Choi BI. Comparison of renal ablation with monopolar radiofrequency and hypertonic-saline-augmented bipolar radiofrequency: in vitro and in vivo experimental studies. *AJR Am J Roentgenol*. 2005 Mar;184(3):897-905.
4. Kang HS, Han MH, Kwon BJ, Kwon OK, Kim SH, Choi SH, Chang KH. Short-term outcome of intracranial aneurysms treated with polyglycolic acid/lactide copolymer-coated coils compared to historical controls treated with bare platinum coils: a single-center experience. *AJNR Am J Neuroradiol*. 2005 Sep;26(8):1921-8.

5. Jung AY, Lee JM, Choi SH, Kim SH, Lee JY, Kim SW, Han JK, Choi BI. CT features of an intraductal polypoid mass: Differentiation between hepatocellular carcinoma with bile duct tumor invasion and intraductal papillary cholangiocarcinoma. *J Comput Assist Tomogr.* 2006 Mar-Apr;30(2):173-81.
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7. Park HS, Lee JM, Kim SH, Jeong JY, Kim YJ, Lee KH, Choi SH, Han JK, Choi BI. CT Differentiation of cholangiocarcinoma from periductal fibrosis in patients with hepatolithiasis. *AJR Am J Roentgenol.* 2006 Aug;187(2):445-53.
8. Lee KC, Moon WK, Chung JW, Choi SH, Cho N, Cha JH, Lee EH, Kim SM, Kim HS, Han MH, Chang KH. Assessment of lymph node metastases by contrast-enhanced MR imaging in a head and neck cancer model. *Korean J Radiol.* 2007 Jan-Feb;8(1):9-1.
9. Kim HC, Chung JW, Choi SH, Jae HJ, Lee W, Park JH. Internal mammary arteries supplying hepatocellular carcinoma: vascular anatomy at digital subtraction angiography in 97 patients. *Radiology.* 2007 Mar;242(3):925-32. Epub 2007 Jan 17.
10. Kim HC, Chung JW, Choi SH, Yoon JH, Lee HS, Jae HJ, Lee W, Park JH. Hepatocellular carcinoma with internal mammary artery supply: feasibility and efficacy of transarterial chemoembolization and factors affecting patient prognosis. *J Vasc Interv Radiol.* 2007 May;18(5):611-9.
11. Kim SH, Park S, Choi SH, Jeong WK, Choi JH. Significant predictors for determination of testicular rupture on sonography: a prospective study. *J Ultrasound Med.* 2007 Dec;26(12):1649-55.
12. Kim NR, Lee JM, Kim SH, An SK, Han CJ, Choi SH, Han JK, Lee HS, Jang JJ, Choi BI. Enhancement characteristics of cholangiocarcinomas on multiphase helical CT: emphasis on morphologic subtypes. *Clin Imaging.* 2008 Mar-Apr;32(2):114-20.
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14. Bandgap engineered reverse type-I CdTe/InP/ZnS core-shell nanocrystals for the near-infrared. Kim S, Shim W, Seo H, Hyun Bae J, Sung J, Choi SH, Moon WK, Lee G, Lee B, Kim SW. *Chem Commun (Camb).* 2009 Mar 14;(10):1267-9.
15. Uniform mesoporous dye-doped silica nanoparticles decorated with multiple magnetite nanocrystals for simultaneous enhanced magnetic resonance imaging, fluorescence imaging, and drug delivery. Lee JE, Lee N, Kim H, Kim J, Choi SH, Kim JH, Kim T, Song IC, Park SP, Moon WK, Hyeon T. *J Am Chem Soc.* 2010 Jan 20;132(2):552-7.
16. Yun TJ, Kwon GJ, Oh MK, Woo SK, Park SH, Choi SH, Lee HJ, Goo JM, Yim JJ, Kim JS, Park CM. Radiological and clinical characteristics of a military outbreak of pandemic H1N1

- 2009 influenza virus infection. *Korean J Radiol.* 2010 Jul;11(4):417-24.
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 20. Kim HC, Chung JW, Choi SH, Im SA, Yamasaki Y, Jun S, Jae HJ, Park JH. Augmentation of Chemotherapeutic Infusion Effect by TSU-68, an Oral Targeted Antiangiogenic Agent, in a Rabbit VX2 Liver Tumor Model. *Cardiovasc Intervent Radiol.* 2010 Dec 24.
 21. Lee N, Kim H, Choi SH, Park M, Kim D, Kim HC, Choi Y, Lin S, Kim BH, Jung HS, Kim H, Park KS, Moon WK, Hyeon T. Magnetosome-like ferrimagnetic iron oxide nanocubes for highly sensitive MRI of single cells and transplanted pancreatic islets. *Proc Natl Acad Sci U S A.* 2011 Feb 15;108(7):2662-7.
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Invited talk

International

1. Qianjiang International Conference on Medical Imaging 2015 (2nd meeting) (Hangzhou, China) - Application of DCE MR imaging for glioma
2. NeuroImaging Summit 2015 (Taipei, Taiwan) - : Expression of branched-chain amino acid transaminase 1 in IDH mutation (-) GBM: correlation study with DSC perfusion imaging
3. AOCNR 2015 (Fukuoka, Japan) - MR imaging application for the evaluation of genetic alteration in brain tumors
4. 43rd JSMRM (Tokyo, Japan) - Clinical application of Gadovist for the evaluation of brain tumors
5. KSR-IRS Friendship Symposium 2014 (Jakarta, Indonesia) - Application of the high b-value diffusion-weighted imaging for gliomas
6. Seoul-Taipei-Kansai Neuroradiology meeting 2014 (Nara, Japan) - Biology & Genetics of Glioma: Influence on Imaging Features
7. 43rd JSNR (Yonago, Japan) - Application of the advanced MR imaging for the differentiation of pseudoprogression from true progression in GBM patients treated with CCRT with temozolomide
8. CCR 2014 (Beijing, China) - How to Write High Quality Research Articles
9. The 12th Anhui Annual Congress of Medical Radiology Conference 2014 (Hefei, China) - Application of the advanced MR imaging for the differentiation of pseudoprogression from true progression in GBM after CCRT with TMZ
10. WFNS 2013 (Seoul, Korea) - Application of Advanced MR Imaging For Post-treatment Evaluation In High Grade Glioma
11. 2013 annual meeting of Neuroradiological Society of Taiwan (Gaoshiung, Taiwan) - Application of 5-aminolevulinic acid for high grade gliomas
12. SPIE nano 2012 (Incheon, Korea) - Macrophages Homing to Metastatic Lymph Nodes Can Be Monitored with Ultrasensitive Ferromagnetic Iron-Oxide Nanocubes and a 1.5T Clinical MR Scanner
13. Kansai-Seoul Neuroradiology meeting 2012 (Kyoto, Japan) - Metabolomic approach for the leptomeningeal carcinomatosis
- 14.