

Publikationen 2015

Klinik und Poliklinik für Diagnostische und Interventionelle Radiologie

UKE

Originalien

Avanesov M, Karul M, Derlin T. (68)Ga-PSMA as a new tracer for evaluation of prostate cancer: comparison between PET-CT and PET-MRI in biochemical recurrence. *Radiologe*. 55(2) (2015):89-91

Avanesov M, Karul M, Derlin T. (68)Ga-pentixafor PET: clinical molecular imaging of chemokine receptor CXCR4 expression in multiple myeloma. *Radiologe*. 55(10) (2015): 829-31

Bannas P, Bell LC, Johnson KM, Schiebler ML, François CJ, Motosugi U, Consigny D, Reeder SB, Nagle SK. Pulmonary Embolism Detection with Three-dimensional Ultrashort Echo Time MR Imaging: Experimental Study in Canines. *Radiology*. 2015 Sep 30. [Epub ahead of print]

Bannas P, Kramer H, Hernando D, Agni R, Cunningham AM, Mandal R, Motosugi U, Sharma SD, Munoz Del Rio A, Fernandez L, Reeder SB. Quantitative magnetic resonance imaging of hepatic steatosis: Validation in ex vivo human livers. *Hepatology*. 2015 Nov;62(5):1444-55.

Bannas P, Li Y, Motosugi U, Li K, Lubner M, Chen GH, Pickhardt PJ. Prior Image Constrained Compressed Sensing Metal Artifact Reduction (PICCS-MAR): 2D and 3D Image Quality Improvement with Hip Prostheses at CT Colonography. *Eur Radiol*. 2015 Oct 31. [Epub ahead of print]

Bannas P, Rybczynski M, Sheikhzadeh S, von Kodolitsch Y, Derlin T, Yamamura J, Lund G, Adam G, Groth M. Comparison of Cine-MRI and Transthoracic Echocardiography for the Assessment of Aortic Root Diameters in Patients with Suspected Marfan Syndrome. *Rofo*. 2015 Nov;187(11):1022-1028.

Bannas P, Lenz A, Kunick V, Fumey W, Rissiek B, Schmid J, Haag F, Leingärtner A, Trepel M, Adam G, Koch-Nolte F. Validation of nanobody and antibody based in vivo tumor xenograft NIRF-imaging experiments in mice using ex vivo flow cytometry and microscopy. *J Vis Exp*. 2015 Apr 6;(98):e52462.

Bannas P, Lenz A, Kunick V, Well L, Fumey W, Rissiek B, Haag F, Schmid J, Schütze K, Eichhoff A, Trepel M, Adam G, Ittrich H, Koch-Nolte F. Molecular imaging of tumors with nanobodies and antibodies: Timing and dosage are crucial factors for improved in vivo detection. *Contrast Media Mol Imaging*. 2015 Sep;10(5):367-78.

Bannas P, Motosugi U, Hernando D, Rahimi MS, Holmes JH, Reeder SB. Combined gadoxetic acid and gadofosveset enhanced liver MRI: A feasibility and parameter optimization study. *Magn Reson Med*. 2015 Feb 3. [Epub ahead of print]

Bannas P, Bakke J, Patrick JL, Pickhardt PJ. Automated volumetric analysis for comparison of oral sulfate solution (SUPREP) with established cathartic agents at CT colonography. *Abdom Imaging*. 2015 Jan;40(1):11-8.

Behzadi C, Groth M, Henes FO, Schwarz D, Deibele A, Gc Begemann P, Adam G, Regier M. Intraindividual comparison of image quality using retrospective and prospective respiratory gating for the acquisition of thin sliced four dimensional multidetector CT of the thorax in a porcine model. *Exp Lung Res*. 2015 Nov;41(9):489-98. doi: 10.3109/01902148.2015.1083635.

Behzadi C, Karul M, Henes FO, Laqmani A, Catala-Lehnen P, Lehmann W, Nagel HD, Adam G, Regier M. Comparison of conventional radiography and MDCT in suspected scaphoid fractures. *World J Radiol*. 2015 Jan 28;7(1):22-7. doi: 10.4329/wjr.v7.i1.22.

Derlin T, Janssen T, Salamon J, Veldhoen S, Busch JD, Schön G, Herrmann J, Henes FO, Bannas P, Adam G. Age-related differences in the activity of arterial mineral deposition and regional bone metabolism: a (18)F-sodium fluoride positron emission tomography study. *Osteoporos Int*. 2015 Jan;26(1):199-207.

Ernst TM, Fehling H, Bernin H, Zaruba MD, Bruchhaus I, Adam G, Ittrich H*, Lotter H*. Magnetic Resonance Imaging of Pathogenic Protozoan Parasite *Entamoeba histolytica* Labeled With Superparamagnetic Iron Oxide Nanoparticles, *Invest Radiol* 2015, DOI: 10.1097/RLI.000000000000175 (*shared senior authorship)

Ittrich H, Klose H, Adam G. Radiologic management of haemoptysis: diagnostic and interventional bronchial arterial embolisation, *RoFo : Fortschritte auf dem Gebiete der Röntgenstrahlen und der bildgebenden Verfahren* 2015, 187(4), 248-259

Jung CS, Heine M, Freund B, Reimer R, Koziolok EJ, Kaul MG, Kording F, Schumacher U, Weller H, Nielsen P, Adam G, Heeren J, Ittrich H. Quantitative Activity Measurements of Brown Adipose Tissue at 7 T Magnetic Resonance Imaging After Application of Triglyceride-Rich Lipoprotein 59Fe-Superparamagnetic Iron Oxide Nanoparticle: Intravenous Versus Intraperitoneal Approach. *Invest Radiol*. 2015 Dec 15. [Epub ahead of print]

Kaul, M. G., O. Weber, U. Heinen, A. Reitmeier, T. Mummert, C. Jung, N. Raabe, T. Knopp, H. Ittrich and G. Adam. Combined Preclinical Magnetic Particle Imaging and Magnetic Resonance Imaging: Initial Results in Mice. *Rofo* (2015), 187, 347–52

Keller S, Bieck K, Karul M, Schönagel B, Adam G, Habermann C, Yamamura J. Lateralized Odontoid in Plain Film Radiography: Sign of Fractures? A Comparison Study with MDCT. *Rofo*. 2015 Sep;187(9):801-7. doi: 10.1055/s-0035-1553237

Kording F, Forkert N D, Sedlacik J, Adam G, Hecher K, Arck P, Remus C C. Automatic differentiation of placental perfusion compartments by time-to-peak analysis in mice. *Placenta* 2015; 36(3): 1-7

Laqmani A, Veldhoen S, Dulz S, Derlin T, Behzadi C, Schmidt-Holtz J, Wassenberg F, Sehner S, Nagel HD, Adam G, Regier M. Reduced-dose abdominopelvic CT using hybrid iterative reconstruction in suspected left-sided colonic diverticulitis. *Eur Radiol.* 2016 Jan;26(1):216-24.

Raabe N, Forberich E, Freund B, Bruns OT, Heine M, Kaul MG, Tromsdorf U, Herich L, Nielsen P, Reimer R, Hohenberg H, Weller H, Schumacher U, Adam G, Ittrich H. Determination of liver-specific r_2^* of a highly monodisperse USPIO by (^{59}Fe) iron core-labeling in mice at 3 T MRI, *Contrast media & molecular imaging* 2015, 10(2), 153-162

Rausch VH, Henes FO. Akuter mesenterioaxialer Magenvolvulus nach Kolektomie als seltene Ursache eines akuten Abdomens beim Erwachsenen. *Rofo.* 187 (2015) 812-4.

Regier M, Petersen JP, Hamurcu A, Vettorazzi E, Behzadi C, Hoffmann M, Großterlinden LG, Fensky F, Klatte TO, Weiser L, Rueger JM, Spiro AS. High incidence of osteochondral lesions after open reduction and internal fixation of displaced ankle fractures: medium-term follow-up of 100 cases. *Injury* 10/2015, doi: 10.1111/1754-9485.12159.

Regier M, Chun F. Thermal Ablation of Renal Tumors: Indications, Techniques and Results. *Dtsch Arztebl Int.* 2015 Jun 12;112(24):412-8. doi: 10.3238/arztebl.2015.0412.

Salamon J, Papp L, Tóth Z, Laqmani A, Apostolova I, Adam G, Mautner VF, Derlin T. Nerve Sheath Tumors in Neurofibromatosis Type 1: Assessment of Whole-Body Metabolic Tumor Burden Using F-18-FDG PET/CT. *PLoS One.* 2015 Dec 1;10(12)

Salamon J, Mautner VF, Adam G, Derlin T. Multimodal Imaging in Neurofibromatosis Type 1-associated Nerve Sheath Tumors. *Rofo.* 2015 Dec;187(12):1084-1092.

Salamon J, Hagel C, Friedrich RE, Mautner VF, Derlin T. Foreign Body Abscess Mimicking a Malignant Peripheral Nerve Sheath Tumor in a Patient With Neurofibromatosis Type 1. *Clin Nucl Med.* 2015 Aug;40(8):674-5

Schoennagel BP, Fischer R, Grosse R, Berliner C, Wehbe, M, Kurio G, Lund G, Wang ZJ, Graessner J, Adam G, Yamamura J. Peak Filling Rates Assessed by Cardiac Magnetic Resonance imaging Indicate Diastolic Dysfunction From Myocardial Iron Overload Toxicity. *JACC Cardiovasc Imaging* (2015). DOI 10.1016/j.jcmg.2015.10.017

Weinrich JM, Schäfer H., Regier M. Peritoneale Aussaat als extraossäre Manifestation eines multiplen Myeloms - eine seltene Differenzialdiagnose zur Peritonealkarzinose. *RöFo* (2015): DOI: 10.1055/s-0041-104890

Well L, Avanesov M. Ektopes Ductus-Bellini-Karzinom der Nebenniere: Eine seltene Differenzialdiagnose maligner Nebennierentumore. *Röfo.* 2015 Sep 30. [Epub ahead of print]

in Kooperation mit anderen Kliniken

Apostolova I, Derlin T, Salamon J, Amthauer H, Granström S, Brenner W, Mautner VF, Buchert R. Cerebral glucose metabolism in adults with neurofibromatosis type 1. *Brain Res.* 2015 Nov 2;1625:97-101.

Becker A, Hickmann D, Hansen J, Meyer C, Rink M, Schmid M, Eichelberg C, Strini K, Chromecki T, Jesche J, Regier M, Randazzo M, Tilki D, Ahyai S, Dahlem R, Fisch M, Zigeuner R, Chun FK. Critical analysis of a simplified Fuhrman grading scheme for prediction of cancer specific mortality in patients with clear cell renal cell carcinoma - Impact on prognosis. *Eur J Surg Oncol.* 2015 Oct 23. pii: S0748-7983(15)00818-5. doi: 10.1016/j.ejso.2015.09.023.

Berbée JF, Boon MR, Khedoe PP, Bartelt A, Schlein C, Worthmann A, Kooijman S, Hoeke G, Mol IM, John C, Jung C, Vazirpanah N, Brouwers LP, Gordts PL, Esko JD, Hiemstra PS, Havekes LM, Scheja L, Heeren J, Rensen PC. Brown fat activation reduces hypercholesterolaemia and protects from atherosclerosis development. *Nat Commun.* 2015 Mar 10;6:6356. doi: 10.1038/ncomms7356.

Boehm K, Tennstedt P, Beyer B, Schiffmann J, Beckmann A, Michl U, Beyersdorff D, Budäus L, Graefen M, Karakiewicz PI, Salomon G. Additional elastography-targeted biopsy improves the agreement between biopsy Gleason grade and Gleason grade at radical prostatectomy. *World J Urol.* 2015 Oct 19. [Epub ahead of print]

Boehm K, Budäus L, Tennstedt P, Beyer B, Schiffmann J, Larcher A, Simonis K, Graefen M, Beyersdorff D, Salomon G. Prediction of Significant Prostate Cancer at Prostate Biopsy and Per Core Detection Rate of Targeted and Systematic Biopsies Using Real-Time Shear Wave Elastography. *Urol Int.* 2015;95(2):189-96

Carambia A, Freund B, Schwinge D, Bruns OT, Salmen SC, Ittrich H, Reimer R, Heine M, Huber S, Waurisch C, Eychmüller A, Wraith DC, Korn T, Nielsen P, Weller H, Schramm C, Lüth S, Lohse AW, Heeren J, Herkel J. Nanoparticle-based autoantigen delivery to Treg-inducing liver sinusoidal endothelial cells enables control of autoimmunity in mice, *J Hepatol* 2015, 62(6), 1349-1356

Derlin T, Alchalby H, Bannas P, Veldhoen S, Apostolova I, Trivai I, Bengel FM, Kröger N. Assessment of bone marrow inflammation in patients with myelofibrosis: an 18F-fluorodeoxyglucose PET/CT study. *Eur J Nucl Med Mol Imaging.* 2015 Apr;42(5):696-705

Ernst M, Romero JM, Buhk JH, Cheng B, Herrmann J, Fiehler J, Groth M. Sensitivity of Hyperdense Basilar Artery Sign on Non-Enhanced Computed Tomography. *PLoS One* 10 (2015) e0141096

Groth M, Fiehler J, Henes FO, Buhk JH. Thoracic Pathologies on Scout Views and Bolus Tracking Slices for Computed Tomographic Cerebral Angiography. *Fortschr Röntgenstr* 187 (2015) 691-696

Großterlinden LG, Hartel M, Yamamura J, Schoennagel B, Bürger N, Krause M, Spiro A, Hoffmann M, Lehmann W, Rueger JM, Rupprecht M. Isolated syndesmotic injuries in acute ankle sprains: diagnostic significance of clinical examination and MRI. *Knee Surg Sports Traumatol Arthrosc.* (2015) Apr 21. [Epub ahead of print]

Lohse C, Catala-Lehnen P, Regier M, Heiland M. Superior performance of cone beam tomography in detecting a calcaneus fracture. *GMS Interdiscip Plast Reconstr Surg DGPW*. 2015 Nov 5;4:Doc09.

Mendorf A, Klyuchnikov E, Langebrake C, Rohde H, Ayuk F, Regier M, Christopeit M, Zabelina T, Bacher A, Stübig T, Wolschke C, Bacher U, Kröger N. Atovaquone for Prophylaxis of Toxoplasmosis after Allogeneic Hematopoietic Stem Cell Transplantation. ???

Menzel S, Rissiek B, Bannas P, Jakoby T, Miksiewicz M, Schwarz N, Nissen M, Haag F, Tholey A, Koch-Nolte F. Nucleotide-Induced Membrane-Proximal Proteolysis Controls the Substrate Specificity of T Cell Ecto-ADP-Ribosyltransferase ARTC2.2. *J Immunol*. 2015 Sep 1;195(5):2057-66

Motosugi U, Bannas P, Hernando D, Salmani Rahimi M, Holmes JH, Reeder SB. Intraindividual Crossover Comparison of Gadoteric Acid Dose for Liver MRI in Normal Volunteers. *Magn Reson Med Sci*. 2015 Jun 23. [Epub ahead of print]

Motosugi U, Hernando D, Bannas P, Holmes JH, Wang K, Shimakawa A, Iwadate Y, Taviani V, Rehm JL, Reeder SB. Quantification of liver fat with respiratory-gated quantitative chemical shift encoded MRI. *J Magn Reson Imaging*. 2015 Nov;42(5):1241-8.

Obmann VC, Klink T, Heverhagen JT, Stork A, Laqmani A, Adam G, Begemann PG. Impact of Hybrid Iterative Reconstruction on Agatston Coronary Artery Calcium Scores in Comparison to Filtered Back Projection in Native Cardiac CT. *Rofo*. 2015 May;187(5):372-9.

Patrick JL, Bakke JR, Bannas P, Kim DH, Lubner MG, Pickhardt PJ. Objective volumetric comparison of room air versus carbon dioxide for colonic distention at screening CT colonography. *Abdom Imaging*. 2015 Feb;40(2):231-6.

Pfeifer CD, Schoennagel BP, Grosse R, Wang ZJ, Graessner J, Nielsen P, Adam G, Fischer R, Yamamura J. Pancreatic iron and fat assessment by MRI-R2* in patients with iron overload diseases. *J Magn Reson Imaging*. 2015 Jul;42(1):196-203. doi: 10.1002/jmri.24752. Epub 2014 Sep 19.

Sado DM, Maestrini V, Piechnik SK, Banypersad SM, White SK, Flett AS, Robson MD, Neubauer S, Ariti C, Arai A, Kellman P, Yamamura J, Schoennagel BP, Shah F, Davis B, Trompeter S, Walker M, Porter J, Moon JC. Noncontrast myocardial T1 mapping using cardiovascular magnetic resonance for iron overload. *J Magn Reson Imaging*. 2015 Jun;41(6):1505-11. doi: 10.1002/jmri.24727. Epub 2014 Aug 8.

Seiffert M, Fujita B, Avanesov M, Lunau C, Schön G, Conradi L, Prashovikj E, Scholtz S, Börgermann J, Scholtz W, Schäfer U, Lund G, Ensminger S, Treede H. Device landing zone calcification and its impact on residual regurgitation after transcatheter aortic valve implantation with different devices. *Eur Heart J Cardiovasc Imaging*. 2015 Jul 9. Editorials

Schirmer JH, Wright MN, Vonthein R, Herrmann K, Nölle B, Both M, Henes FO, Arlt A, Gross WL, Schinke S, Reinhold-Keller E, Moosig F, Holle JU. Clinical presentation and long-term outcome of 144 patients with microscopic polyangiitis in a monocentric German cohort. *Rheumatology (Oxford)*. 2015 Aug 20 (Epub ahead of print).

Simon M, Braune S, Laqmani A, Metschke M, Berliner C2, Kalsow M, Klose H, Kluge S. Value of Computed Tomography of the Chest in Subjects With ARDS: A Retrospective Observational Study. *Respir Care*. 2015 Dec 8. pii: respcare.04308. [Epub ahead of print]

Teege S, Hann A, Miksiewicz M, MacMillan C, Rissiek B, Buck F, Menzel S, Nissen M, Bannas P, Haag F, Boyer O, Seman M, Adriouch S, Koch-Nolte F. Tuning IL-2 signaling by ADP-ribosylation of CD25. *Sci Rep*. 2015 Mar 10;5:8959.

Tobisch A, Ittrich H, Izbicki JR, Koenig AM. Successful management of esophageal necrosis after endovascular repair of chronic type B aortic dissection. *Ann Thorac Surg*. 2014 Dec;98(6):2209-11. doi: 10.1016/j.athoracsur.2014.01.061. Epub 2014 Dec 1.

Editorials

Bannas P, Pickhardt PJ. MR Evaluation of the Nontraumatic Acute Abdomen with CT Correlation. *Radiol Clin North Am*. 2015 Nov;53(6):1327-39.

Bannas P, François CJ, Reeder SB. Magnetic Resonance Angiography of the Upper Extremity. *Magn Reson Imaging Clin*. 2015 Aug;23(3):479-93.

Bohnen S, Radunski UK, Lund GK, Kandolf R, Stehning C, Schnackenburg B, Adam G, Blankenberg S, Muellerleile K. Performance of t1 and t2 mapping cardiovascular magnetic resonance to detect active myocarditis in patients with recent-onset heart failure. *Circ Cardiovasc Imaging*. 2015 Jun;8(6). pii: e003073. doi: 10.1161/CIRCIMAGING.114.003073. PubMed PMID: 26015267.

von Kodolitsch Y, De Backer J, Schüler H, Bannas P, Behzadi C, Bernhardt M, Hillebrand M, Fuisting B, Sheikhzadeh S, Rybczynski M, Kölbl T, Püschel K, Blankenberg S, Robinson PN. Perspectives on the revised Ghent criteria for the diagnosis of Marfan syndrome. *Appl Clin Genet*. 2015 Jun 16;8:137-55.

Motosugi U, Bannas P, Sano K, Reeder SB. Hepatobiliary MR contrast agents in hypovascular hepatocellular carcinoma. *Magn Reson Imaging*. 2015 Feb;41(2):251-65.

Radunski UK, Lund GK, Muellerleile K. Reply: Diagnostic value of quantitative CMR in patients suspected of having myocarditis: a question of timing. *JACC Cardiovasc Imaging*. 2015 Jan;8(1):110. doi: 10.1016/j.jcmg.2014.08.013. Epub 2014 Oct 31. PubMed PMID: 25592702.

Seiffert M, Fujita B, Avanesov M, Lunau C, Schön G, Conradi L, Prashovikj E, Scholtz S, Börgermann J, Scholtz W, Schäfer U, Lund G, Ensminger S, Treede H. Device landing zone calcification and its

impact on residual regurgitation after transcatheter aortic valve implantation with different devices. Eur Heart J Cardiovasc Imaging. 2015 Jul 9. pii: jev174. [Epub ahead of print] PubMed PMID: 26160399.

Buchbeiträge

Avanesov, M., Block, B, Lund, GK. Cardiovascular toxicity and monitoring methods in oncologic patients. In: Imaging of complications and toxicity following tumor therapy Editors: Kauczor, H-U., Bäuerle, T., Med Radiol Diagn Imaging (2015), ISBN 978-3-319-12841-2.

Montgomery FU, Wir brauchen keine Sterbehelfer – schon gar keine organisierten. In: Und wenn ich nicht mehr leben möchte?, Gröhe H, Schneider N, adeo Verlag (2015), (177-183)

Montgomery FU, Wir brauchen Aufklärung und keine organisierte Tötung, In: Sterbehilfe oder Sterbebegleitung? Die Debatte, Brand M (Hsg.), Herder Verlag (2015) (29-39)

Vorträge mit publiziertem Abstract

Avanesov M, Säring D, Radunski UK, Muellerleile K, Tahir E, Adam G, Lund G. Size of myocardial fibrosis by LGE, pre- and post-contrast T1 and ECV in patients with hypertrophic cardiomyopathy referenced to normal appearing myocardium or healthy volunteers. Journal of Cardiovascular Magnetic Resonance 2015, 17(Suppl 1): P268

Avanesov M, Säring D, Patten M, Radunski UK, Muellerleile K, Stehning C, Tahir E, Adam G, Lund G. Extent of myocardial fibrosis by LGE, pre- and post-contrast T1 and ECV in patients with hypertrophic cardiomyopathy referenced to normal appearing myocardium or healthy volunteers. ECR 2015 Book of Abstracts (2015): Insights Imaging 6 (Suppl 1) (B-0898)

Avanesov M, Säring D, Radunski UK, Muellerleile K, Stehning C, Adam G, Lund G. Quantifizierung der Myokardfibrose bei Patienten mit hypertropher Kardiomyopathie mit LGE, prä-/post-KM T1- und ECV-Mapping bezogen auf normal erscheinendes Myokard und Normalwerte gesunder Probanden. Fortschr Röntgenstr (Supplement 1) 2015; Volume 187 - Wiss 107.1

Avanesov M, Säring D, Tahir E, Patten M, Radunski UK, Muellerleile K, Stehning C, Adam G, Lund G. Quantification of Myocardial Fibrosis by LGE, Pre- / Post-contrast T1 and ECV in Patients with Hypertrophic Cardiomyopathy Referenced to Normal Appearing Myocardium and Healthy Volunteers. RSNA 2015- SSC01-07

Bannas P, Kramer H, Hernando D, Cunningham AM, Mandal R, Agni R, Motosugi U, Sharma S, Munoz del Rio A, Fernandez L, Reeder SB. Quantitative MR Imaging of Hepatic Steatosis: Validation in Ex Vivo Human Livers. 2015 ISMRM Meeting, Toronto, Canada

Bannas P, Bell LC, Johnson KM, Schiebler ML, Francois CJ, Motosugi U, Consigny D, Reeder SB, Nagle SK. 3D radial UTE MRI for Comprehensive Imaging of Pulmonary Embolism in Canines. 2015 ISMRM Meeting, Toronto, Canada

Bannas P, Roldan A, Johnson KM, Woods MA, Motosugi U, Wieben O, Reeder SB, Kramer H. Longitudinal Monitoring of Hepatic Blood Flow in patients with portal hypertension before and after TIPS implantation with 4D Flow MRI. 2015 ISMRM Meeting, Toronto, Canada

Bannas P, Bookwalter CA, Zierniewicz T, Motosugi U, Bruce R, Potretzke TA, Reeder SB. Combined Gadoteric Acid and Gadofosveset enhanced Liver MRI: Detection and Characterization of Focal Liver Lesions. 2015 ISMRM Meeting, Toronto, Canada

Behzadi Laqmani, A., Henes F. O., Kaul M., Adam G., Regier M. The immediate effect on quantitative T2, T2*-measurements of knee cartilage in young healthy adults at 3T before and after performing a long distance run for 45 minutes. ECR 2015 / C-0884

Berliner C., Brehmer M., Fischer R., Grosse R., Karul M., Keller S., Schönnagel B., Wang, J., Adam G., Yamamura, J. Bestimmung des hypophysären Eisengehaltes mittels Multi-Echo-MRT-R2 Messungen. ROFO-FORTSCHR RONTG. 2015, 187, S 01, S. WISS105_1

Busch JD, Schroder H, Sellenschloh K, Huber G, Adam G, Ittrich H. Developing a Method for Testing Mechanical Properties for Implantable Catheter Lines. Proc. Annual Meeting RSNA (2015)

Groth M, Clausen E, Müllerleile K. MRT des Herzens für Einsteiger mit MR-Erfahrung. Fortschr Röntgenstr 187 (2015) DOI: 10.1055/s-0035-1551492

Groth M. Schlaganfall im Neugeborenen- und Kindesalter. Fortschr Röntgenstr 187 (2015) DOI: 10.1055/s-0035-1551126

Henes F.O., A. Herzyk, G. Adam, M. Regier, T. Derlin, A. Laqmani, M. Lubner, P. Pickhardt, P. Bannas. MDCT angiography for suspected acute mesenteric ischemia: diagnostic yield for ischemic and alternative conditions. ESR, Insights into Imaging, March 2015, Volume 6, Supplement 1, p 373.

Henes F.O., A. Herzyk, G. Adam, M. Regier, T. Derlin, A. Laqmani, M. Lubner, P. Pickhardt, P. Bannas. CT-Angiographie bei Verdacht auf eine akute Mesenterialischämie: Evaluation der Häufigkeit von Darmischämien und alternativen Diagnosen in der CT. Fortschr Röntgenstr 279 (2015).

Henes F.O., A. Herzyk, G. Adam, M. Regier, T. Derlin, A. Laqmani, M. Lubner, P. Pickhardt, P. Bannas. MDCT angiography for suspected acute mesenteric ischemia: diagnostic yield for ischemic and alternative conditions. Radiology 265 (Supplements) 2015, 235.

Herrmann J, Ittrich H, Kaul M, Blohm M, Oh J, Adam G. Functional assessment of the kidneys in a 10 month-old child with renal artery stenosis by IntraVoxel Incoherent Motion (IVIM). Pediatr Radiol (2015) 45 (Suppl 2):S247

Herrmann J, Dammann E, Busch J, Groth M. B-flow sonography for evaluation of femoral arteries in children. Pediatr Radiol (2015) 45 (Suppl 2):S 323

Jung C, Heine M, Kaul MG, Adam G, Heeren J. Using 59 Fe labelled triglyceride-rich lipoproteins for visualisation and quantification of brown adipose tissue activity at 7T MRI. DOI: 10.1007/ecr2015/B-0934

Jung C, Christiansen S, Heine M, Kaul MG, Adam G, Ittrich H. In vivo MRT zur Quantifizierung von Progress und Regress der Atherosklerose in ApoE-/-Mäusen: Ein Vergleich von Volumenbestimmung und T1 Relaxivität mit der en face-Präparation. Fortschr Röntgenstr 2015; 187 - WI_SS405_2 DOI: 10.1055/s-0035-1551229

Jung C, Salamon J, Hofmann M, Them K, Kaul MG, Adam G, Ittrich H, Knopp K. In vivo bolus tracking of Ferucarbotran in mouse model using MPI as high temporal resolution imaging technique. Molekulare Bildgebung Meeting Programm 2015

Jung C, Heine M, Mangels N, Adam G, Ittrich H, Heeren J. Multimodal imaging of insulin-dependent triglyceride-rich lipoprotein uptake into brown adipose tissue at 7T MRI and intravital microscopy. (abstr). Radiological Society of North America scientific assembly and annual meeting program. Oak Brook, Ill: Radiological Society of North America, 2015

Jung C, Salamon J, Hofmann M, Them K, Kaul MG, Adam G, Ittrich H, Knopp K. Using MPI as high temporal resolution imaging technique for in vivo bolus tracking of Ferucarbotran in mouse model (abstr). Radiological Society of North America scientific assembly and annual meeting program. Oak Brook, Ill: Radiological Society of North America, 2015

Karul M, Avanesov M, Kraus T, et al. Patients with acute pancreatitis: Is CT always necessary? ECR 2014 Book of Abstracts (2014) Insights Imaging Suppl 1 (B-0188)

Karul M, Hoffman A, Adam G, et al. Diagnostic value of CT in patients with suspected thoracic spine fractures due to minor trauma. RSNA (2015) – SSE06-05

Kaul MG, Jung C, Salamon J, Mummert T, Hofmann M, Them K, Adam G, Ittrich H, Knopp T. Velocity determination by magnetic particle imaging: phantom validation and in vivo measurements in a mouse model. Radiological Society of North America (RSNA) 101th Scientific Assembly and Annual Meeting, (2015).

Kaul MG, Jung C, Mummert T, Hoffmann M, Ittrich H, Knopp T, Adam G. In vivo Geschwindigkeitsmessungen mittels eines Magnetic Particle Imaging Scanners. Jahrestagung des Interdisziplinären Netzwerkes Molekulare Bildgebung (2015).

Kaul MG, Ittrich H, Jung C, Mummert T, Reitmeier A, Knopp T, Adam G. Workflow of sequential in vivo Magnetic Particle Imaging and in vivo Magnetic Resonance Imaging in mouse. World Molecular Imaging Congress (2015), P684

Kaul MG, Jung C, Salamon J, Ittrich H, Adam G, Knopp T. Analyzing dynamic processes from the reow magnetic measurement signal. 5th International Workshop on Magnetic Particle Imaging (IWMPI) (2015), P3

Kaul MG, ttrich H, Jung C, Reitmeier A, Mummert T, Knopp T, Adam G. Workflow of sequential in vivo Magnetic Particle Imaging and in vivo Magnetic Resonance Imaging in Mouse. 5th International Workshop on Magnetic Particle Imaging (IWMPi) (2015), P45

Keller S., Schoennagel B., Wang Z.W., Grosse R., Nielsen P., Adam G., Fischer R., Yamamura J. MRI- R2* Relaxometry for assessment of kidney iron accumulation as a cause of renal dysfunction in patients with sickle cell disease (SCD). ISMRM 2015, 4023

Keller S., Schoennagel B., Wang Z.W., Grosse R., Nielsen P., Adam G., Fischer R., Yamamura J. MRI-R2* Relaxometry for cardiac, pancreatic and hepatic iron assessment in patients with Hereditary Hemochromatosis. ISMRM 2015, 4075

Kording F, Yamamura J, Überle F, A Lund G, A Adam G, Schönagel B. Doppler Ultraschall im Vergleich zu Elektrokardiogramm und Pulsoximetrie bei 3T. Fortschr Röntgenstr 2015;187:WISS106_6

Kording F, Yamamura J, Überle F, Remus C, Tavares M, Adam G, Schönagel B. Fetale kardiale MRT Bildgebung mit linksventrikulärer Funktionsanalyse mit einem neuen Trigger Verfahren basierend auf Doppler Ultraschall: Erste Erfahrungen. Fortschr Röntgenstr 2015;187: WS_WISS205_4

Kording F, Yamamura J, Überle F, A Lund G, A Adam G, Schönagel B. Doppler-ultrasound in comparison to electrocardiogram and pulse oximetry for gating cardiac MRI at 3T. Radiological Society of North America (RSNA) 100th Scientific Assembly and Annual Meeting (2014); SSQ02-05

Kording F, Yamamura J, Überle F, A Lund G, A Adam G, Schönagel B. Cardiac Magnetic Resonance Imaging with Doppler Ultrasound as alternative trigger method at 3T, ISMRM 23th Annual Meeting #5285 (2015)

Lund G. Myokarditis – Outcome und Prognose. Fortschr Röntgenstr 2015; 187 - RK302_3.DOI: 10.1055/s-0035-1550986

Peldschus K, Brunkhorst T, Derlin T, Bahls C, Adam G, Amling M, Breer S. Multi-modality imaging for tumor localization in patients with tumor-induced osteomalacia: a retrospective analysis. Proceedings of RNSA 2015, SSJ16-04

Regier M, Behzadi C, Henes FO, Remus CC, Adam G, Catala-Lehnen P. Magnetic Resonance Imaging (MRI) of muscle strains of the thigh in professional soccer players: Correlation of imaging findings with the duration of convalescence and presentation at return to play. Insights into Imaging 6 (Supp.1) 2015-12-10

Regier M, Behzadi C, Quitzke A, Kaul MG, Adam G. Quantitative T2* analysis of articular cartilage of the tibiotalar joint in professional soccer players and healthy individuals at 3T MRI. Radiology Supplements 2015 SSG10-04

Schetelig D, Säring D, Illies T, Sedlacik J, Kording F, Werner R. Phantom-based ground-truth generation for vessel segmentation and pulsatile deformation analysis. The International Society for Optics and Photonics 2015; 9786-73

Salamon J, Hofmann M, Jung C, Kaul MG, Adam G, Knopp T, Ittrich H. Online Catheter Tracking using Magnetic Particle Imaging. RSNA 2015, SSC12-08

Salamon J, Laqmani A, Apostolova I, Adam G, Mautner VF, Derlin T. Assessment of Whole-body Metabolic Tumor Burden of Nerve Sheath Tumors in Neurofibromatosis Type 1 Using 18F-FDG PET/CT. RSNA 2015, SSJ17-04

Salamon J, Laqmani A, Apostolova I, Adam G, Mautner VF, Derlin T. Semiautomatische Volumetrie der Tumormasse bei malignen und benignen peripheren Nervenscheidentumoren in Neurofibromatose Typ I Patienten: eine 18F-FDG PET/CT Studie. DRK 2015, WISS 306.1

B. Schönagel, M. Karul, M. Avanesov, P. Bannas, G. Gold, L. Großterlinden, M. Rupprecht, G. Adam, J. Yamamura. Vergleich von Röntgenaufnahmen mit 3T MRT in der Diagnostik isolierter Syndesmosenverletzungen nach Spunggelenktrauma. Fortschr Röntgenstr 2014; 186 - VO404_3 DOI: 10.1055/s-0034-1373324

Sinn M, Tahir E, Avanesov M, Radunski UK, Säring D, Muellerleile K, Adam G, Lund G. Development of cardiac remodeling in patients with acute myocardial infarction studied by cardiac MRI (CMR). Journal of Cardiovascular Magnetic Resonance 17(Suppl 1) (2015) 130.

Sinn M, Tahir E, Avanesov M, Radunski UK, Säring D, Muellerleile K, Stehning C, Adam G, Lund G. Ability of extracellular volume imaging to serially measure infarct size compared to LGE within six months after acute myocardial infarction. Journal of Cardiovascular Magnetic Resonance 17(Suppl 1) (2015) 112.

Sinn M, Tahir E, Avanesov M, Radunski UK, Säring D, Müllerleile K, Stehning C, Adam G, Lund G. Serielle Beurteilung der Infarktgröße durch LGE und ECV-Mapping innerhalb von 6 Monaten nach akutem Herzinfarkt. RöFo - Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren 187 (2015) WISS107_5.

Sinn M, Tahir E, Avanesov M, Radunski UK, Säring D, Muellerleile K, Adam G, Lund G. Development of cardiac remodeling in patients with acute myocardial infarction studied by cardiac MRI (CMR). RSNA 2015

Sinn M, Tahir E, Avanesov M, Radunski UK, Säring D, Muellerleile K, Stehning C, Adam G, Lund G. Ability of extracellular volume imaging to serially measure infarct size compared to LGE within six months after acute myocardial infarction. RSNA2015

Spink C, John B, Krautschneider W, Schröder D, Fischbach R, Braunschweig M, Buhk J, Adam G, Koops A. Non-invasive 4-dimensional wireless aneurysm sac pressure monitoring after endovascular

aortic aneurysm repair (EVAR): conceptional design of an integrated stent-graft and first in vitro results. ECR 2015 (SS 1909b)

Spink C, Buhk J, John B, Krautschneider W, Schröder D, Fischbach R, Braunschweig M, Adam G, Koops A. Integriertes, kabelloses, 4-dimensionales Druckmonitoring nach Endovaskulärer Aortenreparatur (EVAR): Erste in vitro Ergebnisse im Gefäßmodell. RÖFo Fortschr Röntgenstr (2015) 187 - RK_WISS401_6, doi: 10.1055/s-0035-1551112

Spink C, Grass M, Koops, Schmidt T, Adam G. Patient radiation dose reduction during transjugular intrahepatic portosystemic shunt (TIPS) implantation using Philips Allura Clarity. CIRSE 2015 (FB 3107)

Spink C, John B, Krautschneider W, Schröder D, Fischbach R, Braunschweig M, Buhk J, Adam G, Koops A. Integrated Stent-graft for Wireless 4-dimensional Aneurysm Sac Pressure Monitoring after Endovascular Aortic Aneurysm Repair (EVAR): First in Vitro Results. RSNA 2015 (SSQ22-06)

Tahir E, Regier M, Sinn M, Säring D, Radunski U, Adam G, Lund G. "Soccer player's heart": assessment of left ventricular adaptation by cardiac magnetic resonance imaging. 8th Annual SCMR Scientific Sessions Nice, France. Journal of Cardiovascular Magnetic Resonance 2015, 17 (Suppl 1):P304.

Tahir E, Sinn M, Avanesov M, Radunski UK, Säring D, Stehning C, Muellerleile K, Schnackenburg B, Adam G, Lund G. Serial native T1- and T2-mapping to quantitatively monitor resorption of myocardial edema following acute myocardial infarction. 18th Annual SCMR Scientific Sessions. Journal of Cardiovascular Magnetic Resonance 2015, 17 (Suppl 1):P101.

Tahir E, Berliner C, Yarar S, Luers G, Karul M, Adam G, Yamamura J. Anterolateral Ligament of the Knee: Correlation of MR Imaging with Anatomical Findings. ECR 2015. Insights Imaging (2015) 6 (Suppl 1):S159–S445.

Tahir E, Sinn M, Avanesov M, Radunski UK, Saering D, Muellerleile K, Stehning C, Schnackenburg B, Adam G, Lund GK. Serial native T1- and T2-mapping to quantitatively monitor resorption of myocardial edema following acute myocardial infarction. ECR 2015. Insights Imaging (2015) 6 (Suppl 1):S159–S445.

Tahir E, Sinn M, Avanesov M, Wien J, Saering D, Stehning C, Radunski UK, Muellerleile K, Adam K, Lund GK. Quantitatives seriellles Monitoring der Ödemresorption nach akutem Myokardinfarkt mittels nativen T1- und T2-Mapping-Techniken. Fortschr Röntgenstr 2015; 187.

Tahir E, Sinn M, Avanesov M, Wien J, Radunski UK, Säring D, Stehning C, Müllerleile K, Adam G, Lund GK. Serial native T1 and T2 mapping to quantitatively monitor resorption of myocardial edema following acute myocardial infarction. XVI Congress of Bulgarian Association of Radiology 2015.

Tahir E, Sinn M, Säring D, Avanesov M, Radunski U, Muellerleile K, Adam G, Lund GK. Development of infarct and edema size in the course of the first 6 months after acute myocardial infarction measured by LGE- and T2w-CMR imaging. Radiology - RSNA 2015 - SSC02-07

Tahir E, Sinn M, Radunski UK, Saering D, Muellerleile K, Stehning C, Schnackenburg B, Adam G, Lund GK. Serial native T1- and T2-mapping to quantitatively monitor resorption of myocardial edema following acute myocardial infarction. Radiology - RSNA 2015 - SSC02-08

Tahir E., Yarar S., Lüers G., Berliner C., Karul M., Adam G., Yamamura J.. The Anterolateral Ligament of the Knee: Just a ligament of our imagination? Radiology – RSNA 2015 - RC204-02

Werner, Y., Berliner, C., Renteln, D. V., Noder, T., Schachschal, G., Anders, M., Denzer, U., Groth, S., Nast, J., Ittrich, H., Kersten, J., Adam, G. & Rösch, T. Postprozedurale Follow-up-Untersuchungen nach peroraler endoskopischer Myotomie (POEM) bei Achalasie. Z GASTROENTEROL. 2015, 53, 08, S. KG328

Yamamura J, Schönengel B, Tavares M, Remus C, Ueberle F, Adam G, Kording F. Fetal cardiac MRI and left ventricular function assessment using a new gating strategy based on Doppler Ultrasound: Preliminary results, ISMRM 23th Annual Meeting #0623 (2015)

Yamamura J, Schmidt TM, Fischer R, Wang Z, Acar S, Lorenzen M, Heinemann A, Wedegärtner U, Adam G. Useful tool in Virtopsy: Postmortal 31P magnetic resonance spectroscopy of the skeletal muscle – γ -ATP/Pi ratio. Insights Imaging Suppl 1 (B-0274)

Auszeichnungen und Preise

Well L. Egon Bücheler-Promotionspreis für Radiologie 2015.

Stipendien

Avanesov M. European Congress of Radiology 2015: “Invest in the youth” scholarship

Avanesov M. “Introduction to Research for International Young Academics(IRIYA)” scholarship. Radiological Society of North America 2015

Keller S. ISMRM 2015 Educational Stipend 23rd Annual Meeting & Exhibition, Toronto, Canada

Keller S. Deutscher Akademischer Austausch Dienst (DAAD), Bilateraler Wissenschaftleraustausch Japan 2015/16.

Spink C. Rolf W. Günther Foundation Travel Grant, CIRSE 2015

Tahir E. Hospitationsstipendium der Norddeutschen Röntgengesellschaft.

Tahir E. Stipendium der German-Japanese Radiological Affiliation.

Drittmittel

Bannas P. Wilhelm Sander-Stiftung „Bildgebung und Therapie von CD38-positiven hämatologischen Neoplasien mit rekombinanten Nanobodies“.

Jung C, Hofmann M. Förderlinie des Forschungszentrum Medizintechnik Hamburg (fmthh).
Automatische Bildregistrierung von MPI und MRT Daten mittels bimodaler Fiducial Marker

Kording F. Bundesministerium für Wirtschaft und Energie (BMWi).EXIST-Forschungstransfer. sMaRT-
sync - MRT-taugliches Doppler-Ultraschallgerät zur Aufnahme der Herzfrequenz in der
Magnetresonanztomographie