**Publikationen 2021**

Klinik und Poliklinik für Diagnostische und Interventionelle Radiologie und Nuklearmedizin mit

Abteilung für Kinderradiologie

Abteilung für Nuklearmedizin und

Sektion für Experimentelle Biomedizinische Bildgebung / Institute for Biomedical Imaging

**Originalien**

Baltruschat I, Steinmeister L, Nickisch H, Saalbach A, Grass M, Adam G, Knopp T, Ittrich H. Smart chest X-ray worklist prioritization using artificial intelligence: a clinical workflow simulation. European Radiology 31 (2021) 3837-3845

Berliner C, Wang ZJ, Singer ST, Grosse R, McDonough RV, Padua E, Yuan Q, Weyhmiller M, James E, Vichinsky E, Adam G, Yamamura J, Bannas P, Fischer R, Schoennagel BP. Anterior pituitary volume in patients with transfusion dependent anemias: volumetric approaches and relation to pituitary MRI-R2. Clin. Neuroradiology. 2021; Oct 28. doi: 10.1007/s00062-021-01111-4.

Beyersdorff D, Rahbar K, Essler M, Ganswindt U, Grosu AL, Gschwend JE, Miller K, Scheidhauer K, Schlemmer HP, Wolff JM, Krause BJ. Interdisziplinärer Expertenkonsensus zu Innovationen der bildgebenden Diagnostik und radionuklidbasierten Therapien des fortgeschrittenen Prostatakarzinoms [Interdisciplinary expert consensus on innovations in imaging diagnostics and radionuclide-based therapies for advanced prostate cancer]. Urologe A. 2021 Aug 18. German. doi: 10.1007/s00120-021-01598-2. Epub ahead of print

Boberg M, Gdaniec N, Szwargulski P, Werner F, Möddel M, Knopp T. Simultaneous imaging of widely differing particle concentrations in MPI: problem statement and algorithmic proposal for improvement. Physics in Medicine & Biology 66 (9) 095004

Guerreiro H, Avanesov M, Dinnies S, Sehner S, Schön G, Wenzel U, Adam G, Ittrich H, Regier M. Efficiency of Percutaneous Stent Angioplasty in Renal Artery Stenosis - 15 Years of Experience at a Single Center. Rofo. 2021 Mar;193(3):298-304. doi: 10.1055/a-1236-4195

Herrmann J, Säring D, Auf der Mauer M, Groth M, Jopp-van Well E. Forensic age assessment of the knee: proposal of a new classification system using two-dimensional ultrasound volumes and comparison to MRI. Eur Radiol. 2021 May; 31(5):3237-3247. doi: 10.1007/s00330-020-07343-1.

Kaul MG, Mummert T, Graeser M, Salamon J, Jung C, Tahir E, Ittrich H, Adam G, Peldschus K. Pulmonary blood volume estimation in mice by magnetic particle imaging and magnetic resonance imaging. Sci Rep. 2021 Mar 1; 11(1):4848. doi: 10.1038/s41598-021-84276-9.

Knopp T, Grosser M. MRIReco. jl: An MRI reconstruction framework written in Julia. Magnetic Resonance in Medicine 86 (2021) 1633-1646

Knopp T, Grosser M, Graeser M, Gerkmann T, Möddel M. Efficient Joint Estimation of Tracer Distribution and Background Signals in Magnetic Particle Imaging using a Dictionary Approach. IEEE Transactions on Medical Imaging 40 (2021) 3568-3579

Koehler D, Ozga AK, Molwitz I, Görich HM, Keller S, Mayer-Runge U, Adam G, Yamamura J. Time series analysis of the in-hospital diagnostic process in suspected pulmonary embolism evaluated by computed tomography: An explorative study. Eur J Radiol 140 (2021)

Koehler D, Ozga AK, Molwitz I, May P, Görich HM, Keller S, Adam G, Yamamura J. Time series analysis of the demand for COVID-19 related chest imaging during the first wave of the SARS-CoV-2 pandemic: An explorative study. PLoS One 16 (2021)

# Leiderer M, Viezens L, Henes FO. Diagnostik der Spondylodiszitis. Radiologie up2date 2021; 21(01): 39-56. DOI: 10.1055/a-1256-0409

Leiderer MT, Welsch GH, Molwitz I, Maas KJ, Adam G, Bannas P, Henes FO. [Magnetic resonance imaging of midtarsal sprain: Prevalence and impact on the time of return to play in professional soccer players.](https://pubmed.ncbi.nlm.nih.gov/33360826/)  Eur J Radiol. 2021 Feb; 135:109491. doi: 10.1016/j.ejrad.2020.109491.

Maas KJ, Warncke ML, Leiderer M, Krause M, Dust T, Frings J, Frosch KH, Adam G, Henes FO. [Diagnostic Imaging of Patellofemoral Instability.](https://pubmed.ncbi.nlm.nih.gov/33773517/)  Rofo.2021 Sep; 193(9):1019-1033. doi: 10.1055/a-1348-2122.

Meyer M, Hohenberger P, Overhoff D, Bartsch A, Henzler T, Haubenreisser H, Ronald J, Schmidt B, Flohr T, Sedlmair M, Ota H, Messiou C, Schoenberg SO, Riedel RF, Nelson RC, Marin D. Dual-Energy CT Vital Iodine Tumor Burden for Response Assessment in Patients With Metastatic GIST Undergoing TKI Therapy: Comparison to Standard CT and FDG PET/CT Criteria. AJR Am J Roentgenol.2021 Oct 20. doi: 10.2214/AJR.21.26636. Online ahead of print.

Möddel M, Griese F, Kluth T, Knopp T. Estimating the Spatial Orientation of Immobilized Magnetic Nanoparticles with Parallel-Aligned Easy Axes. Physical Review Applied 16 (2021) L041003

Molwitz I, Leiderer M, McDonough R, Fischer R, Ozga AK, Ozden C, Tahir E, Koehler D, Adam G, Yamamura J. Skeletal muscle fat quantification by dual-energy computed tomography in comparison with 3T MR imaging. Eur Radiol 10 (2021); 31:7529-7539

Molwitz I, Yamamura J, Ozga AK, Wedekind I, Nguyen TA, Wolf L, Kamo M, Zhao J, Can E, Keller S. Gender trends in authorships and publication impact in Academic Radiology-a 10-year perspective. Eur Radiol 31 (2021) 8887-8896

Molwitz I, Othman A, Brendlin A, Afat S, Barkhausen J, Reinartz SD. Digitale Lehre mit, durch und nach COVID-19 [Digital teaching with, during and after COVID-19]. Radiologe 61 (2021) 64-66

Rausch VH, Weinrich JM, Schön G, Sabour L, Özden C, Kaul MG, Adam G, Bannas P, Henes FO. Accuracy of preoperative CT staging of acute colonic diverticulitis using the classification of diverticular disease (CDD) - Is there a beneficial impact of water enema and visceral obesity? European journal of Radiology vol. 141 (2021): 109813.

Riedel C, Lenz A, Fischer L, Li J, Piecha F, Kluwe J, Adam G, Bannas P. Abdominal Applications of 4D Flow MRI. Rofo. 2021 Apr; 193(4):388-398.

Schoennagel BP, Müllerleile K, Tahir E, Starekova J, Grosse R, Yamamura J, Bannas P, Adam G, Fischer R. Insights into diastolic function analysis using cardiac magnetic resonance imaging: impact of trabeculae and papillary muscles.

Insights Imaging 2021; 12:159 doi: 10.1186/s13244-021-01104-4.

Sinn MR, Lund GK, Muellerleile K, Freiwald E, Saeed M, Avanesov M, Lenz A, Starekova J, von Kodolitsch Y, Blankenberg S, Adam G, Tahir E. Prognosis of early pre-discharge and late left ventricular dilatation by cardiac magnetic resonance imaging after acute myocardial infarction. Int J Cardiovasc Imaging. 2021 May; 37:1711-1720.

Tahir E, Azar M, Shihada S, Seiffert K, Goy Y, Beitzen-Heineke A, Molwitz I, Muellerleile K, Stehning C, Schön G, Adam G, Petersen C, Müller V, Lund GK. Myocardial injury detected by T1 and T2 mapping on CMR predicts subsequent cancer therapy-related cardiac dysfunction in patients with breast cancer treated by epirubicin-based chemotherapy or left-sided RT. Eur Radiol. 2021 Sep 18. Online ahead of print.

Well L, Careddu A, Stark M, Farschtschi S, Bannas P, Adam G, Mautner VF, Salamon J. Phenotyping spinal abnormalities in patients with Neurofibromatosis type 1 using whole-body MRI. Sci Rep. 2021 Aug 19; 11(1):16889. doi: 10.1038/s41598-021-96310-x.

Well L, Döbel K, Kluwe L, Bannas P, Farschtschi S, Adam G, Mautner VF, Salamon J. Genotype-phenotype correlation in neurofibromatosis type-1: NF1 whole gene deletions lead to high tumor-burden and increased tumor-growth. PLoS Genet. 2021 May 5; 17(5):e1009517. doi: 10.1371/journal.pgen.1009517.

Well L, Weinrich JM, Meyer M, Kehl T, Salamon J, Rüffer A, Adam G, Herrmann J, Groth M. Sensitivity of High-Pitch Dual-Source Computed Tomography for the Detection of Anomalous Pulmonary Venous Connection in Infants. Rofo. 2021 May;193(5):551-558. doi: 10.1055/a-1290-6843. Epub 2020 Dec 10.

**In Kooperation mit anderen Einrichtungen**

Ahlawat S, Ly KI, Fayad LM, Fisher MJ, Lessing AJ, Berg DJ, Salamon JM, Mautner VF, Babovic-Vuksanovic D, Dombi E, Harris G, Plotkin SR, Blakeley J; REiNS International Collaboration.  [Imaging Evaluation of Plexiform Neurofibromas in Neurofibromatosis Type 1: A Survey-Based Assessment](https://pubmed.ncbi.nlm.nih.gov/34230200/). Neurology. 2021 Aug 17; 97(7 Suppl 1):S111-S119

Albers H, Kluth T, Knopp T. Simulating magnetization dynamics of large ensembles of single domain nanoparticles: Numerical study of Brown/Néel dynamics and parameter identification problems in magnetic particle imaging. Journal of Magnetism and Magnetic Materials 541 (2022) 168508

Albers H, Knopp T, Möddel M, Boberg M, Kluth T. Modeling the magnetization dynamics for large ensembles of immobilized magnetic nanoparticles in multi-dimensional magnetic particle imaging. Journal of Magnetism and Magnetic Materials 543 (2022) 168534

Angerer M, Salomon G, Beyersdorff D, Fisch M, Graefen M, Rosenbaum CM. Impact of Sarcopenia on Functional and Oncological Outcomes After Radical Prostatectomy. Front Surg. 2021 Feb 3; 7:620714. doi: 10.3389/fsurg.2020.620714

Apostolidou S, Harbauer T, Lasch P, Biermann D, Hempel M, Lütgehetmann M, Pfefferle S, Herrmann J, Rüffer A, Reinshagen K, Kozlik-Feldmann R, Gieras A, Kniep I, Oh J, Singer D, Ebenebe CU, Kobbe R. Fatal COVID-19 in a Child with Persistence of SARS-CoV-2 Despite Extensive Multidisciplinary Treatment: A Case Report. Children. 2021; 8(7):564. doi: 10.3390/children8070564.

# Avanesov M, Weinrich JM, Sinn M, Lenz A, von Düring F, Salamon J, Henes FO, Schönnagel BP, Adam G, von Kodolitsch Y, Bannas P. [Intraindividual comparison of 1.5 T and 3 T non-contrast MR angiography for monitoring of aortic root diameters in Marfan patients.](https://pubmed.ncbi.nlm.nih.gov/33933510/) Int J Cardiol. 2021 Aug 15; 337:119-126. doi: 10.1016/j.ijcard.2021.04.053.

Avanesov M, Well L, Laqmani A, Derlin T, Riccardi VM, Adam G, Mautner VF, Salamon J. Structural alteration of lung parenchyma in patients with NF1: a phenotyping study using multidetector computed tomography (MDCT). Orphanet J Rare Dis. 2021 Jan 14; 16(1):29. doi: 10.1186/s13023-021-01672-0.

Baum N, Eggers M, Koenigsdorf J, Menzel S, Hambach J, Staehler T, Fliegert R, Kulow F, Adam G, Haag F, Bannas P, Koch-Nolte F. Mouse CD38-Specific Heavy Chain Antibodies Inhibit CD38 GDPR-Cyclase Activity and Mediate Cytotoxicity Against Tumor Cells. Front Immunol. 2021 Sep 3; 12:703574.

Bernatz S, Afat S, Othman AE, Nikolaou K, Sieren M, Sähn MJ, Pinto Dos Santos D, Penzkofer T, Bucher AM, Hamm B, Vogl TJ, Bodelle B; RACOON Consortium ([Gussew](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Gussew+A) A, [König](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=K%C3%B6nig+A) A, [Surov](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Surov+A) A, [Bucher](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Bucher+A) A, [Mahnken](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Mahnken+A) A, [Bücker](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=B%C3%BCcker+A) A, [Hamm](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Hamm+B) B, [Valentin](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Valentin+B) B,  [Stroszczynski](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Stroszczynski+C) C, [Kuhl](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kuhl+C) C, [Düber](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=D%C3%BCber+C) C, [Kloth](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kloth+C) C, [Kütting](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=K%C3%BCtting+D) D, [Maintz](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Maintz+D) D, [Kotter](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kotter+E) E, [Bohrer](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Bohrer+E) E, [Bamberg](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Bamberg+F) F,  [Güttler](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=G%C3%BCttler+F) F, [Meinel](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Meinel+F) F, [Schwarz](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Schwarz+F) F, [Wacker](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Wacker+F) F, [Kostka](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kostka+F) F, [Krombach](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Krombach+G) G, [Antoch](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Antoch+G) G, [Adam](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Adam+G) G, [Borte](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Borte+G) G,  [Kauczor](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kauczor+HU) HU, [Winther](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Winther+H) H, [Kleesiek](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kleesiek+J) J, [Ricke](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Ricke+J) J,  [Kühn](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=K%C3%BChn+JP) JP, [Lotz](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Lotz+J) J, [Barkhausen](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Barkhausen+J) J, [Peldschus](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Peldschus+K) K, [Nikolaou](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Nikolaou+K) K, [Pech](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Pech+M) M, [Sieren](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Sieren+M) M, [Weber](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Weber+MA) MA, [Both](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Both+M) M, [Makowski](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Makowski+M) M, [Fink](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Fink+M) M, [Frölich](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Fr%C3%B6lich+M) M, [May](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=May+M) M, [Beer](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Beer+M) M, [Forsting](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Forsting+M) M, [Ingrisch](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Ingrisch+M) M, [Uder](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Uder+M) M, [Hosten](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Hosten+N) N, [Hamer](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Hamer+O) O, [Jansen](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Jansen+O) O, [Isfort](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Isfort+P) P, [Kuhl](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kuhl+PJ) PJ, [Hoffmann](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Hoffmann+RT) RT, [Braren](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Braren+R) R, [Rischen](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Rischen+R) R, [Klöckner](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kl%C3%B6ckner+R) R, [Ahmed](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Ahmed+S) S, [Afat](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Afat+S) S, [Pätzholz](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=P%C3%A4tzholz+S) S, [Schönberg](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Sch%C3%B6nberg+S) S, [Kröncke](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kr%C3%B6ncke+T) T, [Vogl](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Vogl+T) T, [Bley](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Bley+T) T, [Persigehl](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Persigehl+T) T, [Denecke](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Denecke+T) T, [Penzkofer](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Penzkofer+T) T, [Teichgräber](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Teichgr%C3%A4ber+U) U, [Attenberger](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Attenberger+U) U, [Nicolas](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Nicolas+V) V, [Heindel](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Heindel+W) W, [Wohlgemuth](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Wohlgemuth+W) W). [Impact of the COVID-19 Pandemic on Radiology in Inpatient and Outpatient Care in Germany: A Nationwide Survey Regarding the First and Second Wave.](https://pubmed.ncbi.nlm.nih.gov/34649286/)  Rofo 2021; Oct 14. doi: 10.1055/a-1586-3278.

Cavus E, Muellerleile K, Schellert S, Schneider J, Tahir E, Chevalier C, Jahnke C, Radunski UK, Adam G, Kirchhof P, Blankenberg S, Lund GK, Avanesov M, Patten M. CMR feature tracking strain patterns and their association with circulating cardiac biomarkers in patients with hypertrophic cardiomyopathy. Clin Res Cardiol. 2021 Nov; 110:1757-1769.

Dettmer S, Barkhausen J, Volmer E, Mentzel HJ, Reinartz S, Voigt F, Wacker FK, Baeßler B; Konferenz der Lehrstuhlinhaber für Radiologie (KLR):; Vorstand der Deutschen Röntgengesellschaft (DRG):; Vorstandskommission der AG Lehre der DRG:. White Paper: Radiology Curriculum for Undergraduate Medical Education in Germany and Integration into the NKLM 2.0. Rofo 193 (2021) 1294-1303.

Ding Y, Marin D, Vernuccio F, Gonzalez F, Williamson HV, Becker HC, Patel BN, Solomon J, Ramirez-Giraldo JC, Samei E, Nelson RC, Meyer M. Variability of quantitative measurements of metastatic liver lesions: a multi-radiation-dose-level and multi-reader comparison. Abdom Radiol (NY). 2021 Jan; 46(1):226-236. doi: 10.1007/s00261-020-02601-8. Epub 2020 Jun 10.

Ding Y, Meyer M, Lyu P, Rigiroli F, Ramirez-Giraldo JC, Lafata K, Yang S, Marin D. Can radiomic analysis of a single-phase dual-energy CT improve the diagnostic accuracy of differentiating enhancing from non-enhancing small renal lesions? Acta Radiol. 2021 Apr 20:2841851211010396. doi: 10.1177/02841851211010396. Online ahead of print.

Dirks M, Buchert R, Wirries AK, Pflugrad H, Grosse GM, Petrusch C, Schutze C, Wilke F, Mamach M, Hamann L, Langer LBN, Ding XQ, Barg-Hock H, Klempnauer J, Wetzel CH, Lukacevic M, Janssen E, Kessler M, Bengel FM, Geworski L, Rupprecht R, Ross TL, Berding G, Weissenborn K. Reduced microglia activity in patients with long-term immunosuppressive therapy after liver transplantation. Eur J Nucl Med Mol Imaging 2021, online ahead of print, DOI: [10.1007/s00259-021-05398-w](https://doi.org/10.1007/s00259-021-05398-w)

Fernandez R, Eppard E, Lehnert W, Jimenez-Franco LD, Soza-Ried C, Ceballos M, Ribbeck J, Kluge A, Rosch F, Meckel M, Zhernosekov K, Kramer V, Amaral H. Evaluation of Safety and Dosimetry of (177)Lu-DOTA-ZOL for Therapy of Bone Metastases. J Nucl Med 2021, 62:1126-1132

Flottmann F, van Horn N, Maros ME, Leischner H, Bechstein M, Meyer L, Sauer M, Deb-Chatterji M, Alegiani A, Thomalla G, Fiehler J, Brekenfeld C, investigators GSR. More Retrieval Attempts are Associated with Poorer Functional Outcome After Unsuccessful Thrombectomy. Clin Neuroradiol 2021, online ahead of print, doi: 10.1007/s00062-021-01054-w

Franiel T, Asbach P, Beyersdorff D, Blondin D, Kaufmann S, Mueller-Lisse UG, Quentin M, Rödel S, Röthke M, Schlemmer HP, Schimmöller L; Vorstand der Deutschen Röntgengesellschaft e. V. (DRG); Vorstand des Berufsverbandes der Deutschen Radiologen (BDR). mpMRI of the Prostate (MR-Prostatography): Updated Recommendations of the DRG and BDR on Patient Preparation and Scanning Protocol. Röfo. 2021 Jul;193(7):763-777

Frings J, Dust T, Krause M, Frosch KH, Adam G, Warncke M, Welsch G, Henes FO, Maas KJ. [Dynamic Mediolateral Patellar Translation Is a Sex- and Size-Independent Parameter of Adult Proximal Patellar Tracking Using Dynamic 3 Tesla Magnetic Resonance Imaging.](https://pubmed.ncbi.nlm.nih.gov/34715275/)  Arthroscopy. 2021 Oct 29:S0749-8063(21)00923-3. doi: 10.1016/j.arthro.2021.10.014.

Fründt T, Krause L, Hussey E, Steinbach B, Köhler D, von Felden J, Schulze K, Lohse AW, Wege H, Schwarzenbach H. Diagnostic and Prognostic Value of miR-16, miR-146a, miR-192 and miR-221 in Exosomes of Hepatocellular Carcinoma and Liver Cirrhosis Patients. Cancers (Basel) 2021, 13: 2484.

Gersdorf D, Rambow F, Weise R, Apostolova I, Kobayashi Y, Yamamura Y, Tecklenburg K, Zsebe Z, Klutmann S, Nakajima K, Mester J. Effects of Acquisition Matrix Size on the Accuracy and Repeatability of Parameters of Left Ventricular Function: A Phantom Study for ECG-gated Myocardial SPECT 2021, [Annals of Nuclear Cardiology](https://www.researchgate.net/journal/Annals-of-Nuclear-Cardiology-2189-3926), doi: [10.17996/anc.21-00140](http://dx.doi.org/10.17996/anc.21-00140)

Gleich T, Spitta G, Butler O, Zacharias K, Aydin S, Sebold M, Garbusow M, Rapp M, Schubert F, Buchert R, Heinz A, Gallinat J. Dopamine D2/3 receptor availability in alcohol use disorder and individuals at high risk: Towards a dimensional approach. Addict Biol 2021, 26:e12915

[Hartel MJ, Naji T, Fensky F, Henes FO, Thiesen DM, Lehmann W, Frosch KH, Ntalos D. The influence of bone quality on radiological outcome in 50 consecutive acetabular fractures treated with a pre-contoured anatomic suprapectineal plate.](https://pubmed.ncbi.nlm.nih.gov/33760940/)  Arch Orthop Trauma Surg. 2021 Mar 24. doi: 10.1007/s00402-021-03867-3.

Hinojosa PL, Eifinger F, Wagner M, Herrmann J, Wolf M, Ebenebe CU, von der Wense A, Jung P, Mai A, Bohnhorst B, Longardt AC, Hillebrand G, Schmidtke S, Guthmann F, Aderhold M, Schwake I, Sprinz M, Singer D, Deindl P. Anatomic accuracy, physiologic characteristics, and fidelity of very low birth weight infant airway simulators. Pediatr Res. 2021 Nov 8:1–8. doi: 10.1038/s41390-021-01823-w.

Jaber M (Studentin UKE), Taherpour J (Studentin UKE), Voges B, Apostolova I, Sauvigny T, House PM, Lanz M, Lindenau M, Klutmann S, Martens T, Stodieck S, Buchert R. No Evidence to Favor 99mTc-HMPAO or 99mTc-ECD for Ictal Brain Perfusion SPECT for Identification of the Seizure Onset Zone. Clin Nucl Med 2021, 46:890-895

Jandl NM, Rolvien T, Rupp T, Schumacher U, Püschel K, Maas KJ, Amling M, Henes FO, Spink C. [Diagnostic yield of cone beam computed tomography for small foreign body detection in the hand in comparison with radiography, MSCT and MRI: an ex vivo study.](https://pubmed.ncbi.nlm.nih.gov/33487409/)  Injury. 2021 Oct; 52(10):2841-2847.

Kachanov M, Leyh-Bannurah SR, Roberts MJ, Sauer M, Beyersdorff D, Boiko S, Maurer T, Steuber T, Graefen M, Budäus L. Optimizing Combined Magnetic Resonance Imaging-Targeted and Systematic Biopsy Strategies: Sparing the Multiparametric Magnetic Resonance Imaging-Negative Transitional Zone in Presence of Exclusively Peripheral Multiparametric Magnetic Resonance Imaging-Suspect Lesions. J Urol. 2021 Sep 24:101097JU0000000000002248. doi: 10.1097/JU.0000000000002248. Epub ahead of print

Kehl T, van Rüth V, Weinrich JM, Hübler M. Using three-dimensional visualization as an optimal tool to plan and validate an aortopexy in a congenital heart disease patient with severe tracheal stenosis. Interact Cardiovasc Thorac Surg. (2021) 1-3

Kemper M, Molwitz I (shared first authorship), Krause L, Reeh M, Burdelski C, Kluge S, Yamamura J, Izbicki JR, de Heer G. Are muscle parameters obtained by computed tomography associated with outcome after esophagectomy for cancer? Clin Nutr 40 (2021) 3729-3740

Kliesch S, Schmidt S, Wilborn D, Aigner C, Albrecht W, Bedke J, Beintker M, Beyersdorff D, Bokemeyer C, Busch J, Classen J, de Wit M, Dieckmann KP, Diemer T, Dieing A, Gockel M, Göckel-Beining B, Hakenberg OW, Heidenreich A, Heinzelbecker J, Herkommer K, Hermanns T, Kaufmann S, Kornmann M, Kotzerke J, Krege S, Kristiansen G, Lorch A, Müller AC, Oechsle K, Ohloff T, Oing C, Otto U, Pfister D, Pichler R, Recken H, Rick O, Rudolph Y, Ruf C, Schirren J, Schmelz H, Schmidberger H, Schrader M, Schweyer S, Seeling S, Souchon R, Winter C, Wittekind C, Zengerling F, Zermann DH, Zillmann R, Albers P. Management of Germ Cell Tumours of the Testis in Adult Patients. German Clinical Practice Guideline Part I: Epidemiology, Classification, Diagnosis, Prognosis, Fertility Preservation, and Treatment Recommendations for Localized Stages. Urol Int. 2021;105(3-4):169-180

Kliesch S, Schmidt S, Wilborn D, Aigner C, Albrecht W, Bedke J, Beintker M, Beyersdorff D, Bokemeyer C, Busch J, Classen J, de Wit M, Dieckmann KP, Diemer T, Dieing A, Gockel M, Göckel-Beining B, Hakenberg OW, Heidenreich A, Heinzelbecker J, Herkommer K, Hermanns T, Kaufmann S, Kornmann M, Kotzerke J, Krege S, Kristiansen G, Lorch A, Müller AC, Oechsle K, Ohloff T, Oing C, Otto U, Pfister D, Pichler R, Recken H, Rick O, Rudolph Y, Ruf C, Schirren J, Schmelz H, Schmidberger H, Schrader M, Schweyer S, Seeling S, Souchon R, Winter C, Wittekind C, Zengerling F, Zermann DH, Zillmann R, Albers P. Management of Germ Cell Tumours of the Testes in Adult Patients: German Clinical Practice Guideline, PART II - Recommendations for the Treatment of Advanced, Recurrent, and Refractory Disease and Extragonadal and Sex Cord/Stromal Tumours and for the Management of Follow-Up, Toxicity, Quality of Life, Palliative Care, and Supportive Therapy. Urol Int. 2021;105(3-4):181-191

Kliesch S, Schmidt S, Wilborn D, Aigner C, Albrecht W, Bedke J, Beintker M, Beyersdorff D, Bokemeyer C, Busch J, Classen J, de Wit M, Dieckmann KP, Diemer T, Dieing A, Gockel M, Göckel-Beining B, Hakenberg OW, Heidenreich A, Heinzelbecker J, Herkommer K, Hermanns T, Kaufmann S, Kornmann M, Kotzerke J, Krege S, Kristiansen G, Lorch A, Müller AC, Oechsle K, Ohloff T, Oing C, Otto U, Pfister D, Pichler R, Recken H, Rick O, Rudolph Y, Ruf C, Schirren J, Schmelz H, Schmidberger H, Schrader M, Schweyer S, Seeling S, Souchon R, Winter C, Wittekind C, Zengerling F, Zermann DH, Zillmann R, Albers P. Management of Germ Cell Neumann S, Rüffer A, Sachweh J, Biermann D, Herrmann J, Jerosch-Herold M, Hazekamp M, Sinning C, Zengin E, Blankenberg S, Girdauskas E, Reichenspurner H, Kehl T, Müller G, Kozlik-Feldmann R and Rickers. Narrative review of Ebstein’s anomaly beyond childhood: Imaging, surgery, and future perspectives. Cardiovasc Diagnosis Ther. 2021;0(0):0–0. doi: 10.21037/cdt-20-771.

Knobloch G, Nagle S, Colgan T, Schubert T, Johnson KM, Bannas P, Li G, Hinshaw L, Holmes J, Reeder SB. Feasibility and optimization of ultra-short echo time MRI for improved imaging of IVC-filters at 3.0 T. Abdom Radiol (NY). 2021 Jan; 46(1):362-372

Korthaus A, Warncke M, Pagenstert G, Krause M, Frosch KH, Kolb JP. Lateral femoral notch sign and posterolateral tibial plateau fractures and their associated injuries in the setting of an anterior cruciate ligament rupture. Arch Orthop Trauma Surg. 2021 Aug 2. doi: 10.1007/s00402-021-04105-6. Epub ahead of print. PMID: 34341852.

Kramer V, Fernandez R, Lehnert W, Jimenez-Franco LD, Soza-Ried C, Eppard E, Ceballos M, Meckel M, Benesova M, Umbricht CA, Kluge A, Schibli R, Zhernosekov K, Amaral H, Muller C. Biodistribution and dosimetry of a single dose of albumin-binding ligand [(177)Lu]Lu-PSMA-ALB-56 in patients with mCRPC. Eur J Nucl Med Mol Imaging 2021, 48:893-903

Kuhl C, Walter P, Zimmer C, Mentzel HJ, Reimer P, Hausegger KA, Baretton G, Hoffmann RT, Heindel W, Düber C, Uder M, Nikolaou K, Antoch G; Vorstand der Deutschen Röntgengesellschaft e. V. (DRG):; Vorstand der Deutschen Gesellschaft für Neuroradiologie e. V. (DGNR):; Vorstand der Gesellschaft für Pädiatrische Radiologie e. V. (GPR):; Vorstand der Deutschen Gesellschaft für Interventionelle Radiologie und Minimalinvasive Therapie (DeGIR):; Präsidium der Österreichischen Röntgengesellschaft (ÖRG):; Vorstand der Deutschen Gesellschaft für Pathologie e. V. (DGP):; Konferenz der Lehrstuhlinhaber für Radiologie e. V.:. [Positionspapier der DRG, DGNR, GPR, DeGIR, ÖRG und DGP zur Nutzung klinischer Daten für wissenschaftliche Zwecke.](https://pubmed.ncbi.nlm.nih.gov/33530119/) Rofo. 2021 Apr;193(4):381-387.

Kunz AS, Weng AM, Wech T, Knapp J, Petritsch B, Hebestreit H, Bley TA, Köstler H, Veldhoen S. Non-contrast pulmonary perfusion MRI in patients with cystic fibrosis. Eur J Radiol 139 (2021) 109653

Lam HV, Groth M, Mir T, Bannas P, Lund GK, Jahnke CM, Warncke M, Maas KJ, Adam G, Herrmann J, Tahir E. Impact of chest wall deformity on cardiac function by CMR and feature-tracking strain analysis in paediatric patients with Marfan syndrome. Eur Radiol. 2021 Jun; 31(6):3973-3982. doi: 10.1007/s00330-020-07616-9.

Leyh-Bannurah SR, Kachanov M, Karakiewicz PI, Beyersdorff D, Pompe RS, Oh-Hohenhorst SJ, Fisch M, Maurer T, Graefen M, Budäus L. Combined systematic versus stand-alone multiparametric MRI-guided targeted fusion biopsy: nomogramprediction of non-organ-confined prostate cancer. World J Urol. 2021 Jan; 39(1):81-88

Levin F, Ferreira D, Lange C, Dyrba M, Westman E, Buchert R, Teipel SJ, Grothe MJ. Data-driven FDG-PET subtypes of Alzheimer's disease-related neurodegeneration. Alzheimers Res Ther 2021, 13:49

Li S, Daamen M, Scheef L, Gaertner FC, Buchert R, Buchmann M, Buerger K, Catak C, Dobisch L, Drzezga A, Ertl-Wagner B, Essler M, Fliessbach K, Haynes JD, Incesoy EI, Kilimann I, Krause BJ, Lange C, Laske C, Priller J, Ramirez A, Reimold M, Rominger A, Roy N, Scheffler K, Maurer A, Schneider A, Spottke A, Spruth EJ, Teipel SJ, Tscheuschler M, Wagner M, Wolfsgruber S, Duzel E, Jessen F, Peters O, Boecker H. Abnormal Regional and Global Connectivity Measures in Subjective Cognitive Decline Depending on Cerebral Amyloid Status. J Alzheimers Dis 2021, 79:493-509

Lieb F, Knopp T. A wavelet‐based sparse row‐action method for image reconstruction in magnetic particle imaging. Medical physics 48 (2021) 3893-3903

Ludewig P, Graeser M, Forkert N D, Thieben F, Rández‐Garbayo J, Rieckhoff J, Lessmann K, Förger F, Szwargulski P, Magnus T, Knopp T. Magnetic particle imaging for assessment of cerebral perfusion and ischemia. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology (2021) e1757

Mauer MA, Well EJ, Herrmann J, Groth M, Morlock MM, Maas R, Säring D. Automated age estimation of young individuals based on 3D knee MRI using deep learning. Int J Legal Med. 2021 Mar; 135(2):649-663. doi: 10.1007/s00414-020-02465-z.

Nazari M, Kluge A, Apostolova I, Klutmann S, Kimiaei S, Schroeder M, Buchert R. Data-driven identification of diagnostically useful extrastriatal signal in dopamine transporter SPECT using explainable AI. Sci Rep 2021, 11:22932

Nazari M, Kluge A, Apostolova I, Klutmann S, Kimiaei S, Schroeder M, Buchert R. Explainable AI to improve acceptance of convolutional neural networks for automatic classification of dopamine transporter SPECT in the diagnosis of clinically uncertain parkinsonian syndromes. Eur J Nucl Med Mol Imaging 2021, online ahead of print, doi: 10.1007/s00259-021-05569-9

Neumann S, Rüffer A, Sachweh J, Biermann D, Herrmann J, Jerosch-Herold M, Hazekamp M, Sinning C, Zengin E, Blankenberg S, Girdauskas E, Reichenspurner H, Kehl T, Müller G, Kozlik-Feldmann R and Rickers. Narrative review of Ebstein’s anomaly beyond childhood: Imaging, surgery, and future perspectives. Cardiovasc Diagnosis Ther. 2021;0(0):0–0. doi: 10.21037/cdt-20-771.

Perucca G, Lange C de, Franchi-Abella S, Napolitano M, Riccabona M, Ključevšek D, Toso S, Herrmann J, Stafrace S, Darge K, Damasio M B, Bruno C, Woźniak M M, Lobo L, Ibe D, Smets A M, Petit P and Müller L-S O. Surveillance of Fontan-associated liver disease: current standards and a proposal from the European Society of Paediatric Radiology Abdominal Task Force. Pediatr Radiol. 2021;1–9. doi: 10.1007/s00247-021-05173-x.

Perucca G, Lange C de, Franchi-Abella S, Napolitano M, Riccabona M, Ključevšek D, Toso S, Herrmann J, Stafrace S, Darge K, Damasio M B, Bruno C, Woźniak M M, Lobo L, Ibe D, Smets A M, Petit P and Müller L-S O. Radiologic follow-up in Fontan-associated liver disease in Europe: European Society of Paediatric Radiology survey demonstrates the need for a consensus protocol. Pediatr Radiol. 2021;51(13):2607–2610. doi: 10.1007/s00247-021-05172-y.

Petersen J, Lenz A, Adam G, Reichenspurner H, Bannas P, Girdauskas E. Changes in transvalvular flow patterns after aortic valve repair: comparison of symmetric versus asymmetric aortic valve geometry. Eur J Cardiothorac Surg 8; 59(5) (2021) 1087-1094

Pfefferle S, Günther T, Kobbe R, Czech-Sioli M, Nörz D, Santer R, Oh J, Kluge S, Oestereich L, Peldschus K, Indenbirken D, Huang J, Grundhoff A, Aepfelbacher M, Knobloch JK, Lütgehetmann M, Fischer N. SARS-CoV-2 variant tracing within the first COVID-19 clusters in Northern Germany. Clin Microbiol Infect 2021; 27(1):130.e5-130.e8.

Radunski UK, Kluwe J, Klein M, Galante A, Lund GK, Sinning C, Bohnen S, Tahir E, Starekova J, Bannas P, Stehning C, Adam G, Lohse AW, Blankenberg S, Muellerleile K, Benten D. Cardiovascular magnetic resonance demonstrates structural cardiac changes following transjugular intrahepatic portosystemic shunt. Sci Rep. 2021 Jun 16; 11:12719.

[Rambow](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Franziska+Rambow) F, [Gersdorf](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Denis+Gersdorf) D, [Jacobi](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Janin+Jacobi) J, [Mathies](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Franziska+Mathies) F, [Klene](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Christiane+Klene) C, [Zsebe](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Zsofia+Zsebe) Z, [Klutmann](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Susanne+Klutmann) S, [Apostolova](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Ivayla+Apostolova) I, [Nakajima](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Kenichi+Nakajima) K, [Mester](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Janos+Mester) J Impact of Valve Plane Alignment on the Repeatability of Left Ventricular Ejection Fraction in ECG-gated Myocardial SPECT Using Corridor 4DM, Annals of Nuclear Cardiology 2021, doi: [10.17996/anc.21-00138](https://doi.org/10.17996/anc.21-00138)

Reher D, Fehrenbach U, Kayser A, Pape UF, Henes FO, Cremer B, Hörsch D, Izbicki J, Lohse AW, Rinke A, Schrader J. [Localization defines streptozotocin/5-FU response in primary pancreatic neuroendocrine tumours.](https://pubmed.ncbi.nlm.nih.gov/34515157/)  Neuroendocrinology. 2021 Aug 5. doi: 10.1159/000518895.

Rigiroli F, Hoye J, Lerebours R, Lafata KJ, Li C, Meyer M, Lyu P, Ding Y, Schwartz FR, Mettu NB, Zani S Jr, Luo S, Morgan DE, Samei E, Marin D. CT Radiomic Features of Superior Mesenteric Artery Involvement in Pancreatic Ductal Adenocarcinoma: A Pilot Study. Radiology. 2021 Dec;301(3):610-622. doi: 10.1148/radiol.2021210699. Epub 2021 Sep 7.

Schäfer J F, Herrmann J, Kammer B, Koerber F, Tsiflikas I, Kalle T von and Mentzel H-J. Fortschrittliche radiologische Diagnostik bei soliden Tumoren im Kindes- und Jugendalter. Der Onkologe. 2021;27(5):410–426. doi: 10.1007/s00761-021-00910-1.

Schmitz-Steinkruger H (Studentin UKE), Lange C, Apostolova I, Mathies FL, Frings L, Klutmann S, Hellwig S, Meyer PT, Buchert R. Impact of age and sex correction on the diagnostic performance of dopamine transporter SPECT. Eur J Nucl Med Mol Imaging 2021, 48:1445-1459

Schneider JN, Neumann JT, Bohnen S, Sörensen NA, Cavus E, Schäfer S, Hartikainen TS, Goßling A, Tahir E, Lund GK, Adam G, Blankenberg S, Muellerleile K, Westermann D, Radunski UK. Association of late gadolinium enhancement with biomarkers in patients with myocardial infarction. Coron Artery Dis. 2021 Apr 5. Epub ahead of print.

Schwarz C, Lange C, Benson GS, Horn N, Wurdack K, Lukas M, Buchert R, Wirth M, Floel A. Severity of Subjective Cognitive Complaints and Worries in Older Adults Are Associated With Cerebral Amyloid-beta Load. Front Aging Neurosci 2021, 13:675583

Stein A, Simnica D, Schultheiß C, Scholz R, Tintelnot J, Gökkurt E, von Wenserski L, Willscher E, Paschold L, Sauer M, Lorenzen S, Riera-Knorrenschild J, Depenbusch R, Ettrich TJ, Dörfel S, Al-Batran SE, Karthaus M, Pelzer U, Waberer L, Hinke A, Bauer M, Massa C, Seliger B, Wickenhauser C, Bokemeyer C, Hegewisch-Becker S, Binder M. PD-L1 targeting and subclonal immune escape mediated by PD-L1 mutations in metastatic colorectal cancer. J Immunother Cancer. 2021; 9(7): e002844

Stockhausen KE\*, Riedel C\*, Belinski AV, Rothe D, Gehrke T, Klebig F, Gebauer M, Amling M, Citak M, Busse B. Variability in stem taper surface topography affects the degree of corrosion and fretting in total hip arthroplasty. Sci Rep. 2021 Apr 30; 11(1):9348.

(\* gleichberechtigte Erstautorenschaft)

Stolzenbach LF, Löcherbach F, Wargenau K, Pose R, Steuber T, Tian Z, Budäus L, Tilki D, Graefen M, Köhler D, Karakiewicz PI, Sauer M, Apostolova II, Maurer T, Berliner C. Clinical impact of whole-body 68Ga-PSMA I&T PET/CT: lesion frequency and added benefit in lower extremities. Nuklearmedizin (2021); 60:417-424

Taherpour J (Studentin UKE), Jaber M (Studentin UKE), Voges B, Apostolova I, Sauvigny T, House PM, Lanz M, Lindenau M, Klutmann S, Martens T, Stodieck S, Buchert R. Predicting the outcome of epilepsy surgery by covariance pattern analysis of ictal perfusion SPECT. J Nucl Med 2021, online ahead of print, doi: 10.2967/jnumed.121.262702

Tavares de Sousa M, Hecher K, Kording F, Yamamura J, Lenz A, Adam G, Bannas P, Schoennagel BP. Fetal dynamic magnetic resonance imaging using Doppler ultrasound gating for the assessment of the aortic isthmus: A feasibility study. Acta Obstet Gynecol Scand. 2021 Jan; 100(1):67-73

Tozakidou M, Meister RL, Well L, Petersen KU, Schindera S, Jopp-van Well E, Püschel K, Herrmann CT of the medial clavicular epiphysis for forensic age estimation: hands up? J. Int J Legal Med. 2021 Jul; 135(4):1581-1587. doi: 10.1007/s00414-021-02516-z. Epub 2021 Feb 24.

Velthaus JL, Iglauer P, Simon R, Bokemeyer C, Bannas P, Beumer N, Imbusch CD, Goekkurt E, Loges S. Lorlatinib Induces Durable Disease Stabilization in a Pancreatic Cancer Patient with a ROS1 p.L1950F Mutation: Case Report. Oncol Res Treat. 2021; 44(9):495-502

Vernuccio F, Austin S, Meyer M, Guy CD, Kishnani PS, Marin D. "Bull's eye" appearance of hepatocellular adenomas in patients with glycogen storage disease type I - atypical magnetic resonance imaging findings: Two case reports. World J Clin Cases. 2021 Feb 6; 9(4):871-877. doi: 10.12998/wjcc.v9.i4.871.

Wang S, Mautner VF, Buchert R, Flibotte S, Suppa P, Friedman JM, Heran MKS. Alterations in brain morphology by MRI in adults with neurofibromatosis 1. Orphanet J Rare Dis 2021, 16:462

Wei H, Wiśniowska A, Fan J, Harvey P, Li Y, Wu V, Hansen EC, Zhang J, Kaul MG, Frey AM, Adam G, Frenkel AI, Bawendi MG, Jasanoff A. Single-nanometer iron oxide nanoparticles as tissue-permeable MRI contrast agents. Proc Natl Acad Sci U S A. 2021 Oct 19; 118(42):e2102340118. doi: 10.1073/pnas.2102340118.

Westermann D, Ludwig S, Kalbacher D, Spink C, Linder M, Bhadra OD, Nikorowitsch J, Waldschmidt L, Demal T, Voigtländer L, Schaefer A, Seiffert M, Pecha S, Schofer N, Greenbaum AB, Reichenspurner H, Blankenberg S, Conradi L, Schirmer J. Prevention of coronary obstruction in patients at risk undergoing transcatheter aortic valve implantation: the Hamburg BASILICA experience. Clin Res Cardiol. 2021 Dec; 110(12):1900-1911.

**Editorials**

**./.**

**Buchbeiträge**

Aulbert W, Blohm M, Denecke J, Driemeyer J, Hermann K, Herrmann J, Johannsen J, Muntau AC, Oh J, Weiss D, Wennekamp J. Kapitel: Anamnese und klinische Untersuchungsmethoden. MEX Das mündliche Examen - Pädiatrie. Hrsg. AC Muntau. Urban & Fischer/Elsevier, 2021.

### Molwitz I, Yamamura J, Keller S. Wissenschaftliche Repräsentanz von Frauen in der Medizin. Thun, Heinemann, Aulenkamp (Hrsg.) Frauen in der digitalen Zukunft der Medizin und Gesundheitswirtschaft 487 (2021) ISBN 978-3-86216-805-7.

**Vorträge/Poster mit zitierbarem Abstract**

Abel B (Student UKE), Apostolova I, Drewes R, Zsebe Z, Buchert R, Klutmann S, Lehnert W. [Einfluss von Aufnahmezeit und Bildrekonstruktion auf die Bildqualität der Ganzkörper–SPECT/CT des Skelettes](https://www.nuklearmedizin.de/jahrestagungen/abstr_online2021/abstract_detail.php?navId=238&aId=137). Jahrestagung der Deutschen Gesellschaft für Nuklearmedizin 2021, V44

Alt SC, Wintges K, Bannas P, Herrmann J, Weinrich JM. Diagnostischer Mehrwert abdomineller Verlaufs-Ultraschalluntersuchungen pädiatrischer Polytraumapatienten mit initial unauffälliger Computertomographie. GPR 2021. Rofo 2021; 193(S 02): S82  
DOI: 10.1055/s-0041-1732533

Alt SC, Ittrich I, Bannas P, Weinrich JM, Jürgens J, Raabe N, Peldschus K, Meister RL, Adam G, Herrmann J. 2D-Shear-Wave-Elastographie zur Diagnose und Verlaufsbeurteilung einer Lebervenenstenose nach Lebertransplantation. GPR 2021. Rofo 2021; 193(S 02): S83. DOI: 10.1055/s-0041-1732535

Apostolova I, Jaber M, Taherpour J, Stodieck S, Klutmann S, Voges B, Buchert R. [The rate of contradictory lateralization of the epileptic seizure onset zone between ictal and interictal brain perfusion SPECT](https://www.nuklearmedizin.de/jahrestagungen/abstr_online2021/abstract_detail.php?navId=238&aId=50). Jahrestagung der Deutschen Gesellschaft für Nuklearmedizin 2021, V38

Baltruschat IM, Szwargulski P, Griese F, Grosser M, Werner R, Knopp T. Reduktion der Kalibrierungszeit für die Magnetpartikelbildgebung mittels Deep Learning. Bildverarbeitung für die Medizin 2021: Proceedings, German Workshop on Medical Image Computing (2021) 337-337

Buchert R. What May AI and Radiomics Bring in Neuroimaging? European Journal of Nuclear Medicine and Molecular Imaging 2021, 48(Suppl 1): S37

Grosser M, Knopp T. Efficient Optimization Of Mri Sampling Patterns Using The Bayesian Fisher Information Matrix. IEEE 18th International Symposium on Biomedical Imaging (2021) 234-237

Kaul MG, Mummert T, Riedel C, Graeser M, Adam G, Salamon J. Darstellung einer Nierenstenose und einer anschließenden Reperfusion mittels des Magnetic Particle Imaging Verfahrens in einem Rattenmodell. Deutscher Röntgenkongress; Fortschr Röntgenstr (2021)

Kaul MG, Well L, Adam G, Mautner V. F, Salamon J. Evaluation Of Various Non-Gaussian Diffusion Models For The Classification Of Peripheral Nerve Sheath Tumors In Patients With Neurofibromatosis Type 1. Proceedings of the RSNA 2021

Knapp J, Kording F, Tavares de Sousa M, Ruprecht C, Yamamura J, Lenz A, Adam G, Bannas P, Schönnagel B. Fetale 4D-Fluss-MRT mittels Doppler-Ultraschall-Gating bei 3T. 102. Deutscher Röntgenkongress der Deutschen Röntgengesellschaft e.V. (2021) 17

Knopp T, Grosser M, Graeser M, Gerkmann T, Möddel M. Dictionary-Based Background Signal Estimation for Magnetic Particle Imaging. IEEE 18th International Symposium on Biomedical Imaging (2021) 1540-1543

Köhler D, Haus J, Shenas F, Rohde H, Ittrich H, Adam G, Peldschus K. Häufigkeit und mikrobiologisches Spektrum Oberarmport-assoziierter Infektionen. Rofo 193 (2021) S13. DOI 10.1055/s-0041-1723164.

Lehnert W, Apostolova I, Buchert R, Klutmann S. Comparison of Red Marrow Dosimetry Methodologies for Lu-177-PSMA Radionuclide Therapy. European Journal of Nuclear Medicine and Molecular Imaging 2021, 48 (Suppl 1): S76

Lenz A, von Düring F, Riedel C, Sinn M, Zhang S, Schönnagel B, Well L, Adam G, von Kodolitsch Y, Bannas P. 4D Fluss MRT bei Marfan Patienten: Einfluss des Z-scores auf den aortalen Blutfluss. Rofo 2021; 193(S 01): S8.

Mathies F, Apostolova I, Dierck L, Drewes R, Forgács A, Jacobi J, Kuen K, Schenk M, Klutmann S, Buchert R. [Impact of multi-pinhole collimators on reader confidence in DAT SPECT](https://www.nuklearmedizin.de/jahrestagungen/abstr_online2021/abstract_detail.php?navId=238&aId=94). Jahrestagung der Deutschen Gesellschaft für Nuklearmedizin 2021, P7

Meister RL, Groth M, Jürgens J, Zhang S, Buhk J, Herrmann J. Evaluation of compressed sensing on pediatric brain tumor MR imaging: Impact on image quality and scan duration, Annual Meeting of the International Society of Magnetic Resonance Imaging 2021. Digital poster. https://www.ismrm.org/21/program-files/D-176.htm

Meister RL, Groth M, Jürgens J, Zhang S, Katemann C, Amthor T, Buhk J, Herrmann J. Protokollbasierte MRT-Bildgebung pädiatri- scher Hirntumoren: Einfluss von Compressed SENSE auf Bildqualität und Untersuchungszeit.Deutscher Röntgenkongress 2021, online. Fortschr Röntgenstr 2021; 193: S16.

Molwitz I. CT basierte Bestimmung von Sarkopenieparametern bei COVID-19.

doi: 10.1055/s-0041-1723194. 102. Deutscher Röntgenkongress

Molwitz I. Entwicklung weiblicher Autorenzahlen in radiologischen Zeitschriften mit

niedrigem bis hohen Impact. doi: 10.1055/s-0041-1723129.102. Deutscher Röntgenkongress

Molwitz I. Gender Trends in Authorships and Publication Impact. Abstractband RPS 100-16. European Congress of Radiology

Pfeil J, Zsebe Z, Apostolova I, Buchert R, Klutmann S, Lehnert W. [Einfluss der SPECT-Segmentierung auf die Quantifizierung der Aktivität in Organen und Tumoren für die Dosimetrie in der Lu-177 Radionuklidtherapie](https://www.nuklearmedizin.de/jahrestagungen/abstr_online2021/abstract_detail.php?navId=238&aId=149). Jahrestagung der Deutschen Gesellschaft für Nuklearmedizin 2021, P5

Pfeil J, Zsebe Z, Apostolova I, Buchert R, Klutmann S, Lehnert W. Impact of SPECT Segmentation on Accuracy of Lu-177 Activity Quantification for Dosimetry in Radionuclide Therapy. European Journal of Nuclear Medicine and Molecular Imaging 2021, 48 (Suppl 1): S75

Ristow I, Madesta F, Well L, Yazdan Shenas F, von Düring F, Molwitz I, Hott L, Farschtschi S, Bannas P, Adam G, Mautner VF, Werner R, Salamon J: Machine Learning bei Neurofibromatose Typ 1: Evaluation MRT-basierter Radiomics-Charakteristika zur Differenzierung von benignen und malignen peripheren Nervenscheidentumoren, 102. Deutscher Röntgenkongress 2021, doi: 10.1055/s-0041-1723202

Sauer M, Warncke M, Well L, Wiese N, Adam G, Bannas P. Verlaufsbeurteilung maligner Tumore mit iRECIST: Manuelle vs. Software-unterstützte Beurteilung in einem Multireader Setup. Deutscher Röntgenkongress der Deutschen Röntgengesellschaft 2021, DOI 10.1055/s-0041-1723131

Schnellbächer N, Ragab H, Nickisch H, Wissel T, Spink C, Lund G, Grass M. Deep learning plaque detection in coronary CTA using a hybrid plaque model. RSNA 2021 (SSCA03-5).

Spink C, Fal M, Frosch KH, Adam G, Henes FO, Mader K. CINE 3 Tesla Magnetresonanztomographie des Ellenbogengelenks - Ein neuartiges dynamisches Diagnoseverfahren. DVSE 2021 (21-239).

Tahir E, Sinn M, Lund G, Bohnen S, Radunski U, Warncke M, Adam G, Blankenberg S, Müllerleile K, Jahnke C. Differenzierung von akuter Myokarditis und akutem Nicht-ST-Hebungsinfarkt mittels Kardio-MRT. Rofo 2021; 193(S 01): S9-S10.

Well, L; Döbel, K; Kluwe, L; Bannas, P; Farschtschi, S; Mautner, V; Adam, G; Salamon, J. Korrelation von Genotyp und Phänotyp in Neurofibromatose Typ-1: Die vollständige Deletion des NF1-Gens führt zu erhöhter Tumorlast und Tumorwachstum in Betroffenen. RöFo 2021; 193(S01): 26 - 26. doi:10.1055/s-0041-1723204

**Stipendien**

**./.**

**Auszeichnungen und Preise**

Ragab, H. Karl-Horatz-Promotionspreis des UKE 2021

Ristow I. Hans-Heimann-Promotionspreis 2021, Deutsche Gesellschaft für Psychiatrie und Psychotherapie, Psychosomatik und Nervenheilkunde e.V. (DGPPN)

**Patente**

Baltruschat IM, Knopp T, Nickisch H, Saalbach A. System and method for image decomposition of a projection image. US Patent App. 16/962, 548 (2020)

**Drittmittel**

Adam G. Explorative Kohortenstudie zum Aufbau einer Wissensbasis radiologischer  
Befunddaten und klinischer Daten von Verdachts- oder Krankheitsfällen einer COVID-19 (Coronavirus SARS-CoV-2) Infektion" RAdiological COOperative Network RACOON

Bannas P, Koch-Nolte F. Engineering the avidity of nanobody-based bispecific diabodies and heavy chain antibodies to specifically target myeloma cells co-expressing two membrane proteins. Deutsche Forschungsgemeinschaft.

Knopp T. Using Prior Knowledge for the Solution of Ill-Posed Inverse Problems in X-Ray Microscopy. DASHH Projekt gefördert von der Behörde für Wissenschaft, Forschung und Gleichstellung.

Molwitz I, Szwargulski P. Spektral-Computertomographie zur Quantifizierung von Muskelfett und Eisenablagerungen im Knochenmark als klinisch prognostische Parameter. Forschungszentrum Medizintechnik Hamburg.

Ristow I, Mautner VF, Salamon J. Förderung des Projektes „Evaluation des Wachstums peripherer Nervenscheidentumore bei Patienten mit Neurofibromatose Typ 1 im Langzeitverlauf“ durch den Bundesverband Neurofibromatose e.V.

Ristow I, Mautner VF, Salamon J. Evaluation des Wachstums peripherer Nervenscheidentumore bei Patienten mit Neurofibromatose Typ 1 im Langzeitverlauf, Stiftung Helfen aus Dank, Projektnummer 1274/101, 15.000 €

Schönnagel B, Bannas P, Tavares de Sousa M, Herrmann J, Yamamura J, Knapp J, Lenz A, Riedel C. Fetale 4D Fluss MRT zur Evaluation angeborener Herzfehler mittels MRT-kompatiblem Doppler-Ultraschall-Sensor. Deutsche Forschungsgemeinschaft.

Spink C. Entwicklung eines Mikroelektronischen Monitoring Implantats für periphere Stents (MEMIS). Bundesministerium für Wirtschaft und Energie, Zentrales Innovationsprogramm Mittelstand.