

Stanford



Lisa Adams

Postdoctoral Scholar, Radiology

Bio

PROFESSIONAL EDUCATION

- Postdoctoral Research Scholar, Stanford University, Radiology (2022)
- Residency, Charité University Berlin, Department of Diagnostic and Interventional Radiology, Director: Prof. Dr. Bernd Hamm (2016-2021) , German Board Certification as a Radiologist (2021)
- 'Privatdozent', Charité University Berlin , Teaching, Research in Experimental Radiology, and Clinical Care (2020)
- Doctor of Medicine, Charité University Berlin (2016)

STANFORD ADVISORS

- Heike Daldrup-Link, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Ferumoxytol-Enhanced MRI in Children and Young Adults: State of the Art.** *AJR. American journal of roentgenology*
Adams, L. C., Jayapal, P., Ramasamy, S. K., Morakote, W., Yeom, K., Baratto, L., Daldrup-Link, H. E.
2022
- **Deep Learning Detects Changes Indicative of Axial Spondyloarthritis at MRI of Sacroiliac Joints.** *Radiology*
Bressem, K. K., Adams, L. C., Proft, F., Hermann, K. G., Diekhoff, T., Spiller, L., Niehues, S. M., Makowski, M. R., Hamm, B., Protopopov, M., Rios Rodriguez, V., Haibel, H., Rademacher, et al
2022: 212526
- **Prostate158 - An expert-annotated 3T MRI dataset and algorithm for prostate cancer detection.** *Computers in biology and medicine*
Adams, L. C., Makowski, M. R., Engel, G., Rattunde, M., Busch, F., Asbach, P., Niehues, S. M., Vinayahalingam, S., van Ginneken, B., Litjens, G., Bressem, K. K.
2022; 148: 105817
- **Iron Oxide Nanoparticles for Visualization of Prostate Cancer in MRI.** *Cancers*
Kader, A., Kaufmann, J. O., Mangarova, D. B., Moeckel, J., Brangsch, J., Adams, L. C., Zhao, J., Reimann, C., Saatz, J., Traub, H., Buchholz, R., Karst, U., Hamm, et al
2022; 14 (12)
- **ADAMTS4-specific MR probe to assess aortic aneurysms in vivo using synthetic peptide libraries** *NATURE COMMUNICATIONS*
Kaufmann, J. O., Brangsch, J., Kader, A., Saatz, J., Mangarova, D. B., Zacharias, M., Kempf, W. E., Schwaar, T., Ponader, M., Adams, L. C., Moeckel, J., Botnar, R. M., Taupitz, et al
2022; 13 (1): 2867
- **Microscopic multifrequency magnetic resonance elastography of ex vivo abdominal aortic aneurysms for extracellular matrix imaging in a mouse model** *ACTA BIOMATERIALIA*
Mangarova, D. B., Bertalan, G., Jordan, J., Brangsch, J., Kader, A., Moeckel, J., Adams, L. C., Sack, I., Taupitz, M., Hamm, B., Braun, J., Makowski, M. R.

2022; 140: 389-397

- **Editorial for "An Unsupervised Deep Learning Approach for Dynamic-Exponential Intravoxel Incoherent Motion MRI Modeling and Parameter Estimation in the Liver"** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Adams, L. C., Bressemer, K. K.
2022
- **Do submillisievert-chest CT protocols impact diagnostic quality in suspected COVID-19 patients?** *ACTA RADIOLOGICA OPEN*
Thiess, H., Bressemer, K. K., Adams, L., Boening, G., Vahldiek, J. L., Niehues, S. M.
2022; 11 (1): 20584601211073864
- **Detection of radiographic sacroiliitis with an artificial neural network in patients with suspicion of axial spondyloarthritis** *RHEUMATOLOGY*
Poddubnyy, D., Proft, F., Hermann, K. A., Spiller, L., Niehues, S. M., Adams, L. C., Protopopov, M., Rodriguez, V., Muche, B., Rademacher, J., Torgutalp, M., Bressemer, K. K., Vahldiek, et al
2021; 60 (12): 5868-5869
- **Visualization and Quantification of the Extracellular Matrix in Prostate Cancer Using an Elastin Specific Molecular Probe** *BIOLOGY-BASEL*
Kader, A., Brangsch, J., Reimann, C., Kaufmann, J. O., Mangarova, D. B., Moeckel, J., Adams, L. C., Zhao, J., Saatz, J., Traub, H., Buchholz, R., Karst, U., Hamm, et al
2021; 10 (11)
- **De Novo Radiomics Approach Using Image Augmentation and Features From T1 Mapping to Predict Gleason Scores in Prostate Cancer** *INVESTIGATIVE RADIOLOGY*
Makowski, M. R., Bressemer, K. K., Franz, L., Kader, A., Niehues, S. M., Keller, S., Rueckert, D., Adams, L. C.
2021; 56 (10): 661-668
- **Assessment of Albumin ECM Accumulation and Inflammation as Novel In Vivo Diagnostic Targets for Multi-Target MR Imaging** *BIOLOGY-BASEL*
Moeckel, J., Brangsch, J., Reimann, C., Kaufmann, J. O., Sack, I., Mangarova, D. B., Kader, A., Taupitz, M., Adams, L. C., Keller, S., Ludwig, A., Hamm, B., Botnar, et al
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- **Detection of Radiographic Sacroiliitis with an Artificial Neural Network in Patients with Suspicion of Axial Spondyloarthritis**
Poddubnyy, D., Proft, F., Hermann, K., Spiller, L., Niehues, S., Adams, L., Protopopov, M., Rodriguez, V., Muche, B., Rademacher, J., Torgutalp, M., Bressemer, K., Vahldiek, et al
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- **Artificial Neural Network for the Recognition of Active Inflammatory Changes Compatible with Axial Spondyloarthritis on Magnetic Resonance Imaging of Sacroiliac Joints**
Poddubnyy, D., Vahldiek, J., Adams, L., Diekhoff, T., Proft, F., Protopopov, M., Rademacher, J., Rodriguez, V., Torgutalp, M., Niehues, S., Bressemer, K.
WILEY.2021: 1880-1882
- **Evaluation of potential tissue heating during percutaneous drill-assisted bone sampling in an in vivo porcine study** *SKELETAL RADIOLOGY*
Niehues, S. M., Elezkurtaj, S., Bressemer, K. K., Hamm, B., Erxleben, C., Vahldiek, J., Adams, L. C.
2022; 51 (4): 829-836
- **Value of susceptibility-weighted imaging for the assessment of angle measurements reflecting hip morphology (vol 10, 20899, 2021)** *SCIENTIFIC REPORTS*
Boeker, S. M., Adams, L. C., Fahlenkamp, U., Diederichs, G., Hamm, B., Makowski, M. R.
2021; 11 (1): 17580
- **Deep-Learning-Based Diagnosis of Bedside Chest X-ray in Intensive Care and Emergency Medicine** *INVESTIGATIVE RADIOLOGY*
Niehues, S. M., Adams, L. C., Gaudin, R. A., Erxleben, C., Keller, S., Makowski, M. R., Vahldiek, J. L., Bressemer, K. K.
2021; 56 (8): 525-534
- **AN ARTIFICIAL NEURAL NETWORK FOR THE DETECTION OF DEFINITE RADIOGRAPHIC SACROILIITIS WITH HIGH SPECIFICITY IN THE DIAGNOSTIC SETTING**
Vahldiek, J. L., Bressemer, K. K., Niehues, S., Adams, L., Spiller, L., Protopopov, M., Rodriguez, V., Muche, B., Rademacher, J., Haibel, H., Torgutalp, M., Proft, F., Poddubnyy, et al
BMJ PUBLISHING GROUP.2021: 155-156
- **Correlation of Native Liver Parenchyma T1 and T2 Relaxation Times and Liver Synthetic Function Tests: A Pilot Study** *DIAGNOSTICS*
Fahlenkamp, U., Kunkel, J., Ziegeler, K., Neumann, K., Adams, L., Engel, G., Boker, S., Makowski, M.

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- **Simultaneous molecular MRI of extracellular matrix collagen and inflammatory activity to predict abdominal aortic aneurysm rupture (vol 10, 15206, 2020) *SCIENTIFIC REPORTS***
Adams, L. C., Brangsch, J., Reimann, C., Kaufmann, J. O., Buchholz, R., Karst, U., Botnar, R. M., Hamm, B., Makowski, M. R.
2021; 11 (1): 9860
- **Noninvasive imaging of vascular permeability to predict the risk of rupture in abdominal aortic aneurysms using an albumin-binding probe (vol 10, 3231, 2020) *SCIENTIFIC REPORTS***
Adams, L. C., Brangsch, J., Reimann, C., Kaufmann, J. O., Nowak, K., Buchholz, R., Karst, U., Botnar, R. M., Hamm, B., Makowski, M. R.
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- **Effect of Doxycycline on Survival in Abdominal Aortic Aneurysms in a Mouse Model *CONTRAST MEDIA & MOLECULAR IMAGING***
Adams, L. C., Brangsch, J., Kaufmann, J. O., Mangarova, D. B., Moeckel, J., Kader, A., Buchholz, R., Karst, U., Botnar, R. M., Hamm, B., Makowski, M. R., Keller, S.
2021; 2021: 9999847
- **Deep learning for detection of radiographic sacroiliitis: achieving expert-level performance *ARTHRITIS RESEARCH & THERAPY***
Bressem, K. K., Vahldiek, J. L., Adams, L., Niehues, S., Haibel, H., Rodriguez, V., Torgutalp, M., Protopopov, M., Proft, F., Rademacher, J., Sieper, J., Rudwaleit, M., Hamm, et al
2021; 23 (1): 106
- **Targeting the Extracellular Matrix in Abdominal Aortic Aneurysms Using Molecular Imaging Insights *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES***
Adams, L., Brangsch, J., Hamm, B., Makowski, M. R., Keller, S.
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- **Deep learning for accurately recognizing common causes of shoulder pain on radiographs *SKELETAL RADIOLOGY***
Grauhan, N. F., Niehues, S. M., Gaudin, R. A., Keller, S., Vahldiek, J. L., Adams, L. C., Bressem, K. K.
2022; 51 (2): 355-362
- **Improving CT accuracy in the diagnosis of COVID-19 in a hospital setting *CLINICAL IMAGING***
Erkleben, C., Adams, L. C., Albrecht, J., Petersen, A., Vahldiek, J. L., Thiess, H., Kremmin, J., Makowski, M. R., Niehues, A., Niehues, S. M., Bressem, K. K.
2021; 76: 1-5
- **CT diagnostics of pulmonary embolism: Does iodine delivery rate still affect image quality in iterative reconstruction? *CLINICAL HEMORHEOLOGY AND MICROCIRCULATION***
Burdenski, T., Bressem, K. K., Adams, L. C., Grauhan, N. F., Niehues, S. M.
2021; 79 (1): 81-89
- **Molecular MR Imaging of Prostate Cancer *BIOMEDICINES***
Kader, A., Brangsch, J., Kaufmann, J. O., Zhao, J., Mangarova, D. B., Moeckel, J., Adams, L. C., Sack, I., Taupitz, M., Hamm, B., Makowski, M. R.
2021; 9 (1)
- **Value of susceptibility-weighted imaging for the assessment of angle measurements reflecting hip morphology *SCIENTIFIC REPORTS***
Boeker, S. M., Adams, L. C., Fahlenkamp, U., Diederichs, G., Hamm, B., Makowski, M. R.
2020; 10 (1): 20899
- **Molecular MR-Imaging for Noninvasive Quantification of the Anti-Inflammatory Effect of Targeting Interleukin-1 beta in a Mouse Model of Aortic Aneurysm *MOLECULAR IMAGING***
Brangsch, J., Reimann, C., Kaufmann, J., Adams, L., Onthank, D., Thoene-Reineke, C., Robinson, S., Wilke, M., Weller, M., Buchholz, R., Karst, U., Botnar, R., Hamm, et al
2020; 19: 1536012120961875
- **Highly accurate classification of chest radiographic reports using a deep learning natural language model pre-trained on 3.8 million text reports *BIOINFORMATICS***
Bressem, K. K., Adams, L. C., Gaudin, R. A., Troeltzsch, D., Hamm, B., Makowski, M. R., Schuele, C., Vahldiek, J. L., Niehues, S. M.
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- **Is lung density associated with severity of COVID-19? *POLISH JOURNAL OF RADIOLOGY***
Bressem, K. K., Adams, L. C., Albrecht, J., Petersen, A., Thiess, H., Niehues, A., Niehues, S. M., Vahldiek, J. L.

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- **Intracellular accumulation capacity of gadoxetate: initial results for a novel biomarker of liver function** *SCIENTIFIC REPORTS*
Fahlenkamp, U., Ziegeler, K., Adams, L., Boeker, S., Engel, G., Makowski, M.
2020; 10 (1): 18104
- **Development and Validation of an Artificial Intelligence Approach for the Detection of Radiographic Sacroiliitis**
Bressem, K., Vahldiek, J., Adams, L., Niehues, S., Haibel, H., Rodriguez, V., Torgutalp, M., Protopopov, M., Proft, F., Rademacher, J., Sieper, J., Rudwaleit, M., Hamm, et al
WILEY.2020
- **Native T1 Mapping Magnetic Resonance Imaging as a Quantitative Biomarker for Characterization of the Extracellular Matrix in a Rabbit Hepatic Cancer Model** *BIOMEDICINES*
Keller, S., Borde, T., Brangsch, J., Adams, L. C., Kader, A., Reimann, C., Gebert, P., Hamm, B., Makowski, M.
2020; 8 (10)
- **Simultaneous molecular MRI of extracellular matrix collagen and inflammatory activity to predict abdominal aortic aneurysm rupture** *SCIENTIFIC REPORTS*
Adams, L. C., Brangsch, J., Reimann, C., Kaufmann, J. O., Buchholz, R., Karst, U., Botnar, R. M., Hamm, B., Makowski, M. R.
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- **The role of visceral adiposity in the severity of COVID-19: Highlights from a unicenter cross-sectional pilot study in Germany** *METABOLISM-CLINICAL AND EXPERIMENTAL*
Petersen, A., Bressem, K., Albrecht, J., Thiess, H., Vahldiek, J., Hamm, B., Makowski, M. R., Niehues, A., Niehues, S. M., Adams, L. C.
2020; 110: 154317
- **Comparing different deep learning architectures for classification of chest radiographs** *SCIENTIFIC REPORTS*
Bressem, K. K., Adams, L. C., Erxleben, C., Hamm, B., Niehues, S. M., Vahldiek, J. L.
2020; 10 (1): 13590
- **Native T1 mapping for assessment of the perilesional zone in metastases and benign lesions of the liver** *SCIENTIFIC REPORTS*
Fahlenkamp, U., Ziegeler, K., Adams, L., Boeker, S., Engel, G., Makowski, M.
2020; 10 (1): 12889
- **Quantitative 3D Assessment of Ga-68-DOTATOC PET/MRI with Diffusion-Weighted Imaging to Assess Imaging Markers for Gastroenteropancreatic Neuroendocrine Tumors: Preliminary Results** *JOURNAL OF NUCLEAR MEDICINE*
Adams, L. C., Bressem, K. K., Brangsch, J., Reimann, C., Nowak, K., Brenner, W., Makowski, M. R.
2020; 61 (7): 1021-1027
- **Subregion Radiomics Analysis to Display Necrosis After Hepatic Microwave Ablation-A Proof of Concept Study** *INVESTIGATIVE RADIOLOGY*
Bressem, K. K., Adams, L. C., Vahldiek, J. L., Erxleben, C., Poch, F., Lehmann, K. S., Hamm, B., Niehues, S. M.
2020; 55 (7): 422-429
- **Multiparametric Assessment of Changes in Renal Tissue after Kidney Transplantation with Quantitative MR Relaxometry and Diffusion-Tensor Imaging at 3 T** *JOURNAL OF CLINICAL MEDICINE*
Adams, L. C., Bressem, K. K., Scheibl, S., Nunninger, M., Gentsch, A., Fahlenkamp, U. L., Eckardt, K., Hamm, B., Makowski, M. R.
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- **Noninvasive imaging of vascular permeability to predict the risk of rupture in abdominal aortic aneurysms using an albumin-binding probe** *SCIENTIFIC REPORTS*
Adams, L. C., Brangsch, J., Reimann, C., Kaufmann, J. O., Nowak, K., Buchholz, R., Karst, U., Botnar, R. M., Hamm, B., Makowski, M. R.
2020; 10 (1): 3231
- **Assessment of the extracellular volume fraction for the grading of clear cell renal cell carcinoma: first results and histopathological findings** *EUROPEAN RADIOLOGY*
Adams, L. C., Jurmeister, P., Ralla, B., Bressem, K. K., Fahlenkamp, U. L., Engel, G., Siepmann, S., Wagner, M., Hamm, B., Busch, J., Makowski, M. R.
2019; 29 (11): 5832-5843
- **Dual-probe molecular MRI for the in vivo characterization of atherosclerosis in a mouse model: Simultaneous assessment of plaque inflammation and extracellular-matrix remodeling** *SCIENTIFIC REPORTS*
Reimann, C., Brangsch, J., Kaufmann, J. O., Adams, L. C., Onthank, D. C., Thoene-Reineke, C., Robinson, S. P., Hamm, B., Botnar, R. M., Makowski, M. R.

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- **Use of quantitative T2 mapping for the assessment of renal cell carcinomas: first results** *CANCER IMAGING*
Adams, L. C., Bresslem, K. K., Jurmeister, P., Fahlenkamp, U. L., Ralla, B., Engel, G., Hamm, B., Busch, J., Makowski, M. R.
2019; 19: 35
- **Perioperative and oncologic outcome in patients treated for renal cell carcinoma with an extended inferior vena cava tumour thrombus level II-IV.** *Aktuelle Urologie*
Ralla, B., Adams, L., Maxeiner, A., Mang, J., Krimphove, M., Dushe, S., Makowski, M., Miller, K., Fuller, F., Busch, J.
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- **Evaluation of osseous cervical foraminal stenosis in spinal radiculopathy using susceptibility-weighted magnetic resonance imaging** *EUROPEAN RADIOLOGY*
Engel, G., Bender, Y. Y., Adams, L. C., Boker, S. M., Fahlenkamp, U. L., Wagner, M., Diederichs, G., Hamm, B., Makowski, M. R.
2019; 29 (4): 1855-1862
- **Improved visualisation of hepatic metastases in gadoxetate disodium-enhanced MRI: Potential of contrast-optimised (phase-sensitive) inversion recovery imaging** *PLOS ONE*
Fahlenkamp, U., Engel, G., Adams, L., Boeker, S., Minh Huynh Anh, Wagner, M., Hamm, B., Makowski, M.
2019; 14 (3): e0213408
- **Concurrent Molecular Magnetic Resonance Imaging of Inflammatory Activity and Extracellular Matrix Degradation for the Prediction of Aneurysm Rupture** *CIRCULATION-CARDIOVASCULAR IMAGING*
Brangsch, J., Reimann, C., Kaufmann, J. O., Adams, L. C., Onthank, D. C., Thone-Reineke, C., Robinson, S. P., Buchholz, R., Karst, U., Botnar, R. M., Hamm, B., Makowski, M. R.
2019; 12 (3): e008707
- **Native T1 Mapping as an In Vivo Biomarker for the Identification of Higher-Grade Renal Cell Carcinoma Correlation With Histopathological Findings** *INVESTIGATIVE RADIOLOGY*
Adams, L. C., Ralla, B., Jurmeister, P., Bresslem, K. K., Fahlenkamp, U. L., Ilamm, B., Busch, J., Makowski, M. R.
2019; 54 (2): 118-128
- **Differentiation of Predominantly Osteoblastic and Osteolytic Spine Metastases by Using Susceptibility-weighted MRI** *RADIOLOGY*
Boeker, S. M., Adams, L. C., Bender, Y. Y., Fahlenkamp, U. L., Wagner, M., Hamm, B., Makowski, M. R.
2019; 290 (1): 146-154
- **MR Angiography of the Head/Neck Vascular System in Mice on a Clinical MRI System** *CONTRAST MEDIA & MOLECULAR IMAGING*
Reimann, C., Brangsch, J., Adams, L., Thoene-Reineke, C., Hamm, B., Makowski, M.
2019: 5461809
- **Non-alcoholic fatty liver disease in underweight patients with inflammatory bowel disease: A case-control study** *PLOS ONE*
Adams, L. C., Luebbe, F., Bresslem, K., Wagner, M., Hamm, B., Makowski, M. R.
2018; 13 (11): e0206450
- **Quantitative susceptibility mapping across two clinical field strengths: Contrast-to-noise ratio enhancement at 1.5T** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Ippoliti, M., Adams, L. C., Winfried, B., Hamm, B., Spincemaille, P., Wang, Y., Makowski, M. R.
2018; 48 (5): 1410-1420
- **Feasibility of gadoxetate disodium enhanced 3D T1 MR cholangiography (MRC) with a specific inversion recovery prepulse for the assessment of the hepatobiliary system** *PLOS ONE*
Fahlenkamp, U., Adams, L., Boeker, S., Engel, G., Minh Huynh Anh, Wagner, M., Hamm, B., Makowski, M.
2018; 13 (9): e0203476
- **Assessing venous thrombus in renal cell carcinoma: preliminary results for unenhanced 3D-SSFP MRI** *CLINICAL RADIOLOGY*
Adams, L. C., Ralla, B., Engel, G., Diederichs, G., Hamm, B., Busch, J., Fuller, F., Makowski, M. R.
2018; 73 (8): 757.e9-757.e19
- **Renal cell carcinoma with venous extension: prediction of inferior vena cava wall invasion by MRI** *CANCER IMAGING*
Adams, L. C., Ralla, B., Bender, Y. Y., Bresslem, K., Hamm, B., Busch, J., Fuller, F., Makowski, M. R.
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- **Evaluation of vertebral body fractures using susceptibility-weighted magnetic resonance imaging** *EUROPEAN RADIOLOGY*
Boeker, S. M., Adams, L. C., Bender, Y. Y., Wagner, M., Diekhoff, T., Fallenberg, E., Hamm, B., Makowski, M. R.
2018; 28 (5): 2228-2235
 - **Magnetic resonance imaging in heart failure, including coronary imaging: numbers, facts, and challenges** *ESC HEART FAILURE*
Adams, L., Noutsias, M., Bigalke, B., Makowski, M. R.
2018; 5 (1): 3-8
 - **Sclerotic bone lesions as a potential imaging biomarker for the diagnosis of tuberous sclerosis complex** *SCIENTIFIC REPORTS*
Brakemeier, S., Vogt, L., Adams, L. C., Zukunft, B., Diederichs, G., Hamm, B., Budde, K., Eckardt, K., Makowski, M. R.
2018; 8: 953
 - **Contrast-Enhanced Magnetic Resonance Angiography Using a Novel Elastin-Specific Molecular Probe in an Experimental Animal Model** *CONTRAST MEDIA & MOLECULAR IMAGING*
Reimann, C., Brangsch, J., Kaufmann, J., Adams, L. C., Onthank, D. C., Robinson, S. P., Botnar, R. M., Colletini, F., Makowski, M. R.
2018: 9217456
 - **Treatment effect of mTOR-inhibition on tissue composition of renal angiomyolipomas in tuberous sclerosis complex (TSC)** *PLOS ONE*
Brakemeier, S., Vogt, L., Adams, L., Zukunft, B., Diederichs, G., Hamm, B., Budde, K., Makowski, M. R.
2017; 12 (12): e0189132
 - **IN VIVO HIGH-FREQUENCY ULTRASOUND FOR THE CHARACTERIZATION OF THROMBI ASSOCIATED WITH AORTIC ANEURYSMS IN AN EXPERIMENTAL MOUSE MODEL** *ULTRASOUND IN MEDICINE AND BIOLOGY*
Jansen, C. P., Brangsch, J., Reimann, C., Adams, L., Hamm, B., Botnar, R. M., Makowski, M. R.
2017; 43 (12): 2882-2890
 - **Diagnostic performance of susceptibility-weighted magnetic resonance imaging for the detection of calcifications: A systematic review and meta-analysis** *SCIENTIFIC REPORTS*
Adams, L. C., Bressen, K., Boeker, S., Bender, Y., Noerenberg, D., Hamm, B., Makowski, M. R.
2017; 7: 15506
 - **Assessment of Intracranial Meningioma-Associated Calcifications Using Susceptibility-Weighted MRI** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Adams, L. C., Boeker, S. M., Bender, Y. Y., Fallenberg, E. M., Wagner, M., Buchert, R., Hamm, B., Makowski, M. R.
2017; 46 (4): 1177-1186
 - **Detection of vessel wall calcifications in vertebral arteries using susceptibility weighted imaging** *NEURORADIOLOGY*
Adams, L. C., Boeker, S. M., Bender, Y. Y., Fallenberg, E. M., Wagner, M., Liebig, T., Hamm, B., Makowski, M. R.
2017; 59 (9): 861-872
 - **Diagnostic accuracy of susceptibility-weighted magnetic resonance imaging for the evaluation of pineal gland calcification** *PLOS ONE*
Adams, L. C., Boeker, S. M., Bender, Y. Y., Diederichs, G., Fallenberg, E. M., Wagner, M., Hamm, B., Makowski, M. R.
2017; 12 (3): e0172764
 - **Evaluation of sclerosis in Modic changes of the spine using susceptibility-weighted magnetic resonance imaging** *EUROPEAN JOURNAL OF RADIOLOGY*
Boeker, S. M., Bender, Y. Y., Adams, L. C., Fallenberg, E. M., Wagner, M., Hamm, B., Makowski, M. R.
2017; 88: 148-154