

## ORIGINALARBEITEN

- 1: Fluoro-deoxy-glucose uptake in the mylohyoid muscle: a common misconception. Pizzuto DA, Husmann L, Stolzmann P, Meerwein C, Orita E, von Schulthess GK, Huellner MW. Nucl Med Commun. 2020 Mar 13. doi: 10.1097/MNM.0000000000001174. [Epub ahead of print] PMID: 32187162
- 2: de Galiza Barbosa F, Riesterer O, Tanadini-Lang S, Stieb S, Studer G, Pruschy M, Huber GF, Huellner MW, Stolzmann P, Veit-Haibach P. Evaluation of 18F-FDG PET/CT as an early imaging biomarker for response monitoring after radiochemotherapy using cetuximab in head and neck squamous cell carcinoma. Head Neck. 2019 Head Neck. 2020 Feb;42(2):163-170. doi: 10.1002/hed.25431. Epub 2019 Nov 9. PMID: 31705729
- 3: Meerwein CM, Pizzuto DA, Vital D, Morand GB, Stolzmann P, Huber GF, Huellner MW. Use of MRI and FDG-PET/CT to predict fixation of advanced hypopharyngeal squamous cell carcinoma to prevertebral space. Head Neck. 2019 Feb;41(2):503-510. doi: 10.1002/hed.25431. Epub 2018 Dec 18. PubMed PMID: 30561113.
- 4: Husmann L, Huellner MW, Ledergerber B, Anagnostopoulos A, Stolzmann P, Sah BR, Burger IA, Rancic Z, Hasse B; and the Vasgra Cohort. Comparing diagnostic accuracy of (18)F-FDG-PET/CT, contrast enhanced CT and combined imaging in patients with suspected vascular graft infections. Eur J Nucl Med Mol Imaging. 2019 Jun;46(6):1359-1368. doi: 10.1007/s00259-018-4205-y. Epub 2018 Nov 13. PubMed PMID: 30426151.
- 5: Messerli M, Stolzmann P, Egger-Sigg M, Trinckauf J, D'Aguanno S, Burger IA, von Schulthess GK, Kaufmann PA, Huellner MW. Impact of a Bayesian penalized likelihood reconstruction algorithm on image quality in novel digital PET/CT: clinical implications for the assessment of lung tumors. EJNMMI Phys. 2018 Sep 26;5(1):27. doi: 10.1186/s40658-018-0223-x. PubMed PMID: 30255439; PubMed Central PMCID: PMC6156690.
- 6: Messerli M, de Galiza Barbosa F, Marcon M, Muehlematter UJ, Stolzmann P, Warschkow R, Delso G, Ter Voert EE, Huellner MW, Frauenfelder T, Veit-Haibach P. Value of PET/MRI for assessing tumor resectability in NSCLC-intra-individual comparison with PET/CT. Br J Radiol. 2018 Oct 11:20180379. doi: 10.1259/bjr.20180379. [Epub ahead of print] PubMed PMID: 30209954; PubMed Central PMCID: PMC6435071.
- 7: Tallón de Lara P, Cecconi V, Hiltbrunner S, Yagita H, Friess M, Bode B, Opitz I, Vrugt B, Weder W, Stolzmann P, Felley-Bosco E, Stahel RA, Tischler V, Britschgi C, Soldini D, van den Broek M, Curioni-Fontecedro A. Gemcitabine Synergizes with Immune Checkpoint Inhibitors and Overcomes Resistance in a Preclinical Model and Mesothelioma Patients. Clin Cancer Res. 2018 Dec 15;24(24):6345-6354. doi: 10.1158/1078-0432.CCR-18-1231. Epub 2018 Aug 28. PubMed PMID: 30154226.
- 8: Meerwein CM, Nakadate M, Stolzmann P, Vital D, Morand GB, Zweifel DF, Huber GF, Huellner MW. Contrast-enhanced 18F-FDG-PET/CT for Differentiating Tumour and Radionecrosis in Head and Neck Cancer: Our experience in 37 Patients. Clin Otolaryngol. 2018 Dec;43(6):1594-1599. doi: 10.1111/coa.13185. Epub 2018 Jul 31. PubMed PMID: 29974995.
- 9: Husmann L, Ledergerber B, Anagnostopoulos A, Stolzmann P, Sah BR, Burger IA, Pop R, Weber A, Mayer D, Rancic Z, Hasse B; VASGRA Cohort Study. The role of FDG PET/CT in therapy control of aortic graft infection. Eur J Nucl Med Mol Imaging. 2018 Oct;45(11):1987-1997. doi: 10.1007/s00259-018-4069-1. Epub 2018 Jun 11. PubMed PMID: 29948106.
- 10: Albatly AA, Alsamarah AT, Alhawas A, Veit-Haibach P, Buck A, Stolzmann P, Burger IA, Kollias SS, Huellner MW. Value of (18)F-FET PET in adult brainstem glioma. Clin Imaging. 2018 Sep - Oct;51:68-75. doi: 10.1016/j.clinimag.2018.01.015. Epub 2018 Feb 8. PubMed PMID: 29448122.
- 11: de Galiza Barbosa F, Geismar JH, Delso G, Messerli M, Huellner M, Stolzmann P, Veit-Haibach P. Pulmonary nodule detection in oncological patients - Value of respiratory-triggered, periodically rotated overlapping parallel T2-weighted imaging evaluated with PET/CT-MR. Eur J Radiol. 2018 Jan;98:165-170. doi: 10.1016/j.ejrad.2017.11.010. Epub 2017 Nov 16. PubMed PMID: 29279157.
- 12: Kranzbühler B, Nagel H, Becker AS, Müller J, Huellner M, Stolzmann P, Muehlematter U, Guckenberger M, Kaufmann PA, Eberli D, Burger IA. Clinical performance of (68)Ga-PSMA-11 PET/MRI for the detection of recurrent prostate cancer following radical prostatectomy. Eur J Nucl Med Mol Imaging. 2018 Jan;45(1):20-30. doi: 10.1007/s00259-017-3850-x. Epub 2017 Oct 14. PubMed PMID: 29032394.
- 13: Sekine T, Barbosa FG, Delso G, Burger IA, Stolzmann P, Ter Voert EE, Huber GF, Kollias SS, von Schulthess GK, Veit-Haibach P, Huellner MW. Local resectability assessment of head and neck cancer: Positron emission tomography/MRI versus positron emission tomography/CT. Head Neck. 2017 Aug;39(8):1550-1558. doi: 10.1002/hed.24783. Epub 2017 May 13. PubMed PMID: 28500749.
- 14: Puchner SB, Ferencik M, Maehara A, Stolzmann P, Ma S, Do S, Kauczor HU, Mintz GS, Hoffmann U, Schlett CL. Iterative Image Reconstruction Improves the Accuracy of Automated Plaque Burden Assessment in Coronary CT Angiography: A Comparison With Intravascular Ultrasound. AJR Am J Roentgenol. 2017 Apr;208(4):777-784. doi: 10.2214/AJR.16.17187. Epub 2017 Feb 8. PubMed PMID: 28177655.
- 15: Sekine T, de Galiza Barbosa F, Kuhn FP, Burger IA, Stolzmann P, Huber GF, Kollias SS, von Schulthess GK, Veit-Haibach P, Huellner MW. PET+MR versus PET/CT in the initial staging of head and neck cancer, using a trimodality PET/CT+MR system. Clin Imaging. 2017 Mar - Apr;42:232-239. doi: 10.1016/j.clinimag.2017.01.003. Epub 2017 Jan 17. PubMed PMID: 28129606.

- 15: Sekine T, Barbosa FG, Sah BR, Mader CE, Delso G, Burger IA, Stolzmann P, Ter Voert EE, von Schulthess GK, Veit-Haibach P, Huellner MW. PET/MR Outperforms PET/CT in Suspected Occult Tumors. *Clin Nucl Med.* 2017 Feb;42(2):e88-e95. doi: 10.1097/RLU.0000000000001461. PubMed PMID: 27922861.
- 16: Sah BR, Stolzmann P, Delso G, Wollenweber SD, Hüllner M, Hakami YA, Queiroz MA, Barbosa FG, von Schulthess GK, Pietsch C, Veit-Haibach P. Clinical evaluation of a block sequential regularized expectation maximization reconstruction algorithm in 18F-FDG PET/CT studies. *Nucl Med Commun.* 2017 Jan;38(1):57-66. PubMed PMID: 27755394.
- 17: Burger IA, Casanova R, Steiger S, Husmann L, Stolzmann P, Huellner MW, Curioni A, Hillinger S, Schmidlein CR, Soltermann A. 18F-FDG PET/CT of Non-Small Cell Lung Carcinoma Under Neoadjuvant Chemotherapy: Background-Based Adaptive-Volume Metrics Outperform TLG and MTV in Predicting Histopathologic Response. *J Nucl Med.* 2016 Jun;57(6):849-54. doi: 10.2967/jnumed.115.167684. Epub 2016 Jan 28. PubMed PMID: 26823566; PubMed Central PMCID: PMC5510547.
- 18: Gunzinger JM, Delso G, Boss A, Porto M, Davison H, von Schulthess GK, Huellner M, Stolzmann P, Veit-Haibach P, Burger IA. Metal artifact reduction in patients with dental implants using multispectral three-dimensional data acquisition for hybrid PET/MRI. *EJNMMI Phys.* 2014 Dec;1(1):102. doi: 10.1186/s40658-014-0102-z. Epub 2014 Dec 20. PubMed PMID: 26501460; PubMed Central PMCID: PMC4545455.
- 19: Huellner MW, de Galiza Barbosa F, Husmann L, Pietsch CM, Mader CE, Burger IA, Stolzmann P, Delso G, Frauenfelder T, von Schulthess GK, Veit-Haibach P. TNM Staging of Non-Small Cell Lung Cancer: Comparison of PET/MR and PET/CT. *J Nucl Med.* 2016 Jan;57(1):21-6. doi: 10.2967/jnumed.115.162040. Epub 2015 Oct 15. PubMed PMID: 26471696.
- 20: Samarin A, Hüllner M, Queiroz MA, Stolzmann P, Burger IA, von Schulthess G, Veit-Haibach P. 18F-FDG-PET/MR increases diagnostic confidence in detection of bone metastases compared with 18F-FDG-PET/CT. *Nucl Med Commun.* 2015 Dec;36(12):1165-73. doi: 10.1097/MNM.000000000000387. PubMed PMID: 26397999.
- 21: Largo R, Stolzmann P, Fankhauser CD, Poyet C, Wolfsgruber P, Sulser T, Alkadhi H, Winklhofer S. Predictive value of low tube voltage and dual-energy CT for successful shock wave lithotripsy: an in vitro study. *Urolithiasis.* 2016 Jun;44(3):271-6. doi: 10.1007/s00240-015-0824-y. Epub 2015 Sep 21. PubMed PMID: 26391614.
- 22: Meletta R, Borel N, Stolzmann P, Astolfo A, Klohs J, Stampanoni M, Rudin M, Schibli R, Krämer SD, Herde AM. Ex vivo differential phase contrast and magnetic resonance imaging for characterization of human carotid atherosclerotic plaques. *Int J Cardiovasc Imaging.* 2015 Oct;31(7):1425-34. doi: 10.1007/s10554-015-0706-y. Epub 2015 Jul 16. PubMed PMID: 26179860.
- 23: Husmann L, Sah BR, Scherrer A, Burger IA, Stolzmann P, Weber R, Ranic Z, Mayer D, Hasse B; VASGRA Cohort. <sup>18</sup>F-FDG PET/CT for Therapy Control in Vascular Graft Infections: A First Feasibility Study. *J Nucl Med.* 2015 Jul;56(7):1024-9. doi: 10.2967/jnumed.115.156265. Epub 2015 May 14. PubMed PMID: 25977463.
- 24: de Galiza Barbosa F, Delso G, Zeimpekis KG, Ter Voert E, Hüllner M, Stolzmann P, Veit-Haibach P. Evaluation and clinical quantification of neoplastic lesions and physiological structures in TOF-PET/MRI and non-TOF/MRI - a pilot study. *Q J Nucl Med Mol Imaging.* 2015 May 12. [Epub ahead of print] PubMed PMID: 25964058.
- 25: Winklhofer S, Peter S, Tischler V, Morsbach F, von Werdt M, Berens S, Modregger P, Buser L, Moch H, Stampanoni M, Thali M, Alkadhi H, Stolzmann P. Diagnostic Accuracy of Quantitative and Qualitative Phase-Contrast Imaging for the ex Vivo Characterization of Human Coronary Atherosclerotic Plaques. *Radiology.* 2015 Oct;277(1):64-72. doi: 10.1148/radiol.2015141614. Epub 2015 May 5. PubMed PMID: 25942503.
- 26: Geismar JH, Stolzmann P, Sah BR, Burger IA, Seifert B, Delso G, von Schulthess GK, Veit-Haibach P, Husmann L. Intra-individual comparison of PET/CT with different body weight-adapted FDG dosage regimens. *Acta Radiol Open.* 2015 Jan 29;4(2):2047981614560076. doi: 10.1177/2047981614560076. eCollection 2015 Feb. PubMed PMID: 25793109; PubMed Central PMCID: PMC4364401.
- 27: Plass A, Goetti RP, Emmert MY, Caliskan E, Stolzmann P, Wieser M, Donati O, Alkadhi H, Falk V. The Potential Impact of Functional Imaging on Decision Making and Outcome in Patients Undergoing Surgical Revascularization. *Thorac Cardiovasc Surg.* 2015 Jun;63(4):270-6. doi: 10.1055/s-0034-1395393. Epub 2014 Dec 2. PubMed PMID: 25463355.
- 28: Gordic S, Desbiolles L, Stolzmann P, Gantner L, Leschka S, Husarik DB, Alkadhi H. Advanced modelled iterative reconstruction for abdominal CT: qualitative and quantitative evaluation. *Clin Radiol.* 2014 Dec;69(12):e497-504. doi: 10.1016/j.crad.2014.08.012. Epub 2014 Sep 18. PubMed PMID: 25239788.
- 29: Winklhofer S, Stoeck CT, Berger N, Thali M, Manka R, Kozerke S, Alkadhi H, Stolzmann P. Post-mortem cardiac diffusion tensor imaging: detection of myocardial infarction and remodeling of myofiber architecture. *Eur Radiol.* 2014 Nov;24(11):2810-8. doi: 10.1007/s00330-014-3322-7. Epub 2014 Jul 24. PubMed PMID: 25052077.
- 30: Winklhofer S, Schoth F, Stolzmann P, Krings T, Mull M, Wiesmann M, Stracke CP. Spinal cord motion: influence of respiration and cardiac cycle. *Rofo.* 2014 Nov;186(11):1016-21. doi: 10.1055/s-0034-1366429. Epub 2014 Apr 22. PubMed PMID: 24756427.

- 31: Winklhofer S, Pazahr S, Manka R, Alkadhi H, Boss A, Stolzmann P. Quantitative blood oxygenation level-dependent (BOLD) response of the left ventricular myocardium to hyperoxic respiratory challenge at 1.5 and 3.0 T. *NMR Biomed.* 2014 Jul;27(7):795-801. doi: 10.1002/nbm.3119. Epub 2014 Apr 16. PubMed PMID: 24737306.
- 32: Winklhofer S, Surer E, Ampanozi G, Ruder T, Stolzmann P, Elliott M, Oestreich A, Kraemer T, Thali M, Alkadhi H, Schweitzer W. Post-mortem whole body computed tomography of opioid (heroin and methadone) fatalities: frequent findings and comparison to autopsy. *Eur Radiol.* 2014 Jun;24(6):1276-82. doi: 10.1007/s00330-014-3128-7. Epub 2014 Mar 6. PubMed PMID: 24599624.
- 33: Gordic S, Morsbach F, Schmidt B, Allmendinger T, Flohr T, Husarik D, Baumueller S, Raupach R, Stolzmann P, Leschka S, Frauenfelder T, Alkadhi H. Ultralow-dose chest computed tomography for pulmonary nodule detection: first performance evaluation of single energy scanning with spectral shaping. *Invest Radiol.* 2014 Jul;49(7):465-73. doi: 10.1097/RLI.0000000000000037. PubMed PMID: 24598443.
- 34: Winklhofer S, Benninger E, Spross C, Morsbach F, Rahm S, Ross S, Jost B, Thali MJ, Stolzmann P, Alkadhi H, Guggenberger R. CT metal artefact reduction for internal fixation of the proximal humerus: value of mono-energetic extrapolation from dual-energy and iterative reconstructions. *Clin Radiol.* 2014 May;69(5):e199-206. doi: 10.1016/j.crad.2013.12.011. Epub 2014 Feb 27. PubMed PMID: 24582174.
- 35: Winklhofer S, Stolzmann P, Meier A, Schweitzer W, Morsbach F, Flach P, Kneubuehl BP, Alkadhi H, Thali M, Ruder T. Added value of dual-energy computed tomography versus single-energy computed tomography in assessing ferromagnetic properties of ballistic projectiles: implications for magnetic resonance imaging of gunshot victims. *Invest Radiol.* 2014 Jun;49(6):431-7. doi: 10.1097/RLI.0000000000000032. PubMed PMID: 24566289.
- 36: Reiner CS, Stolzmann P, Husmann L, Burger IA, Hüllner MW, Schaefer NG, Schneider PM, von Schulthess GK, Veit-Haibach P. Protocol requirements and diagnostic value of PET/MR imaging for liver metastasis detection. *Eur J Nucl Med Mol Imaging.* 2014 Apr;41(4):649-58. doi: 10.1007/s00259-013-2654-x. Epub 2013 Dec 18. PubMed PMID: 24346415.
- 37: Winklhofer S, Berger N, Ruder T, Elliott M, Stolzmann P, Thali M, Alkadhi H, Ampanozi G. Cardiothoracic ratio in postmortem computed tomography: reliability and threshold for the diagnosis of cardiomegaly. *Forensic Sci Med Pathol.* 2014 Mar;10(1):44-9. doi: 10.1007/s12024-013-9504-9. Epub 2013 Oct 31. PubMed PMID: 24174274.
- 38: von Spiczak J, Morsbach F, Winklhofer S, Frauenfelder T, Leschka S, Flohr T, Maintz D, Seifarth H, Bunck AC, Stolzmann P, Alkadhi H. Coronary artery stent imaging with CT using an integrated electronics detector and iterative reconstructions: first in vitro experience. *J Cardiovasc Comput Tomogr.* 2013 Jul-Aug;7(4):215-22. doi: 10.1016/j.jcct.2013.08.003. Epub 2013 Aug 24. PubMed PMID: 24148775.
- 39: Chatzis N, Pfiffner R, Glenck M, Stolzmann P, Pfammatter T, Sharma P. Comparing percutaneous primary and secondary biliary stenting for malignant biliary obstruction: A retrospective clinical analysis. *Indian J Radiol Imaging.* 2013 Jan;23(1):38-45. doi: 10.4103/0971-3026.113620. PubMed PMID: 23986617; PubMed Central PMCID: PMC3737616.
- 40: Schlett CL, Ferencik M, Celeng C, Maurovich-Horvat P, Scheffel H, Stolzmann P, Do S, Kauczor HU, Alkadhi H, Bamberg F, Hoffmann U. How to assess non-calcified plaque in CT angiography: delineation methods affect diagnostic accuracy of low-attenuation plaque by CT for lipid-core plaque in histology. *Eur Heart J Cardiovasc Imaging.* 2013 Nov;14(11):1099-105. doi: 10.1093/ehjci/jet030. Epub 2013 May 12. PubMed PMID: 23671211.
- 41: Schlett CL, Maurovich-Horvat P, Ferencik M, Alkadhi H, Stolzmann P, Scheffel H, Seifarth H, Nakano M, Do S, Vorpahl M, Kauczor HU, Bamberg F, Tearney GJ, Virmani R, Hoffmann U. Histogram analysis of lipid-core plaques in coronary computed tomographic angiography: ex vivo validation against histology. *Invest Radiol.* 2013 Sep;48(9):646-53. doi: 10.1097/RLI.0b013e31828fdf9f. PubMed PMID: 23614976.
- 42: Stolzmann P, Winklhofer S, Schwendener N, Alkadhi H, Thali MJ, Ruder TD. Monoenergetic computed tomography reconstructions reduce beam hardening artifacts from dental restorations. *Forensic Sci Med Pathol.* 2013 Sep;9(3):327-32. doi: 10.1007/s12024-013-9420-z. Epub 2013 Mar 20. PubMed PMID: 23512303.
- 43: Karlo CA, Gnannt R, Winklehner A, Fischer MA, Donati OF, Eberli D, Sulser T, Alkadhi H, Stolzmann P. Split-bolus dual-energy CT urography: protocol optimization and diagnostic performance for the detection of urinary stones. *Abdom Imaging.* 2013 Oct;38(5):1136-43. doi: 10.1007/s00261-013-9992-9. PubMed PMID: 23503617.
- 44: Károlyi M, Seifarth H, Liew G, Schlett CL, Maurovich-Horvat P, Stolzmann P, Dai G, Huang S, Goergen CJ, Nakano M, Otsuka F, Virmani R, Hoffmann U, Sosnovik DE. Classification of coronary atherosclerotic plaques ex vivo with T1, T2, and ultrashort echo time CMR. *JACC Cardiovasc Imaging.* 2013 Apr;6(4):466-74. doi: 10.1016/j.jcmg.2012.09.015. Epub 2013 Mar 14. PubMed PMID: 23498670; PubMed Central PMCID: PMC3661771.
- 45: Emmert MY, Wolint P, Winklhofer S, Stolzmann P, Cesarovic N, Fleischmann T, Nguyen TD, Frauenfelder T, Böni R, Scherman J, Bettex D, Grünenfelder J, Schwartlander R, Vogel V, Gyöngyösi M, Alkadhi H, Falk V, Hoerstrup SP. Transcatheter based electromechanical mapping guided intramyocardial transplantation and in vivo tracking of human stem cell based three dimensional microtissues in the porcine heart. *Biomaterials.* 2013 Mar;34(10):2428-41. doi: 10.1016/j.biomaterials.2012.12.021. Epub 2013 Jan 16. PubMed PMID: 23332174.

- 46: Morsbach F, Berger N, Desbiolles L, Poropat T, Leschka S, Alkadhi H, Stolzmann P. Systematic analysis on the relationship between luminal enhancement, convolution kernel, plaque density, and luminal diameter of coronary artery stenosis: a CT phantom study. *Int J Cardiovasc Imaging.* 2013 Jun;29(5):1129-35. doi: 10.1007/s10554-012-0173-7. Epub 2013 Jan 18. PubMed PMID: 23329389.
- 47: Maurovich-Horvat P, Schlett CL, Alkadhi H, Nakano M, Otsuka F, Stolzmann P, Scheffel H, Ferencik M, Kriegel MF, Seifarth H, Virmani R, Hoffmann U. The napkin-ring sign indicates advanced atherosclerotic lesions in coronary CT angiography. *JACC Cardiovasc Imaging.* 2012 Dec;5(12):1243-52. doi: 10.1016/j.jcmg.2012.03.019. PubMed PMID: 23236975.
- 48: Morsbach F, Desbiolles L, Plass A, Leschka S, Schmidt B, Falk V, Alkadhi H, Stolzmann P. Stenosis quantification in coronary CT angiography: impact of an integrated circuit detector with iterative reconstruction. *Invest Radiol.* 2013 Jan;48(1):32-40. doi: 10.1097/RLI.0b013e318274cf82. PubMed PMID: 23192163.
- 49: Dettmer M, Glaser-Gallion N, Stolzmann P, Glaser-Gallion F, Fornaro J, Feuchtner G, Jochum W, Alkadhi H, Wildermuth S, Leschka S. Quantification of coronary artery stenosis with high-resolution CT in comparison with histopathology in an ex vivo study. *Eur J Radiol.* 2013 Feb;82(2):264-9. doi: 10.1016/j.ejrad.2012.09.021. Epub 2012 Oct 29. PubMed PMID: 23116807.
- 50: Stolzmann P, Veit-Haibach P, Chuck N, Rossi C, Frauenfelder T, Alkadhi H, von Schulthess G, Boss A. Detection rate, location, and size of pulmonary nodules in trimodality PET/CT-MR: comparison of low-dose CT and Dixon-based MR imaging. *Invest Radiol.* 2013 May;48(5):241-6. doi: 10.1097/RLI.0b013e31826f2de9. PubMed PMID: 23070096.
- 51: Maurovich-Horvat P, Schlett CL, Alkadhi H, Nakano M, Stolzmann P, Vorpahl M, Scheffel H, Tanaka A, Warger WC 2nd, Maehara A, Ma S, Kriegel MF, Kaple RK, Seifarth H, Bamberg F, Mintz GS, Tearney GJ, Virmani R, Hoffmann U. Differentiation of early from advanced coronary atherosclerotic lesions: systematic comparison of CT, intravascular US, and optical frequency domain imaging with histopathologic examination in ex vivo human hearts. *Radiology.* 2012 Nov;265(2):393-401. doi: 10.1148/radiol.12111891. Epub 2012 Sep 25. PubMed PMID: 23012461.
- 52: Guggenberger R, Winklhofer S, Osterhoff G, Wanner GA, Fortunati M, Andreisek G, Alkadhi H, Stolzmann P. Metallic artefact reduction with monoenergetic dual-energy CT: systematic ex vivo evaluation of posterior spinal fusion implants from various vendors and different spine levels. *Eur Radiol.* 2012 Nov;22(11):2357-64. doi: 10.1007/s00330-012-2501-7. Epub 2012 May 30. PubMed PMID: 22645043.
- 53: Stolzmann P, Schlett CL, Maurovich-Horvat P, Maehara A, Ma S, Scheffel H, Engel LC, Károlyi M, Mintz GS, Hoffmann U. Variability and accuracy of coronary CT angiography including use of iterative reconstruction algorithms for plaque burden assessment as compared with intravascular ultrasound—an ex vivo study. *Eur Radiol.* 2012 Oct;22(10):2067-75. doi: 10.1007/s00330-012-2464-8. Epub 2012 May 24. PubMed PMID: 22622346.
- 54: Scheffel H, Stolzmann P, Schlett CL, Engel LC, Major GP, Károlyi M, Do S, Maurovich-Horvat P, Hoffmann U. Coronary artery plaques: cardiac CT with model-based and adaptive-statistical iterative reconstruction technique. *Eur J Radiol.* 2012 Mar;81(3):e363-9. doi: 10.1016/j.ejrad.2011.11.051. Epub 2011 Dec 23. PubMed PMID: 22197733.
- 55: Scheffel H, Stolzmann P, Leschka S, Desbiolles L, Seifert B, Marincek B, Alkadhi H. Ventricular short-axis measurements in patients with pulmonary embolism: effect of ECG-gating on variability, accuracy, and risk prediction. *Eur J Radiol.* 2012 Sep;81(9):2195-202. doi: 10.1016/j.ejrad.2011.03.067. Epub 2011 Oct 5. PubMed PMID: 21978773.
- 56: Stolzmann P, Goetti RP, Maurovich-Horvat P, Hoffmann U, Flohr TG, Leschka S, Alkadhi H. Predictors of image quality in high-pitch coronary CT angiography. *AJR Am J Roentgenol.* 2011 Oct;197(4):851-8. doi: 10.2214/AJR.10.6072. PubMed PMID: 21940572.
- 57: Stolzmann P, Subramanian S, Abdelbaky A, Maurovich-Horvat P, Scheffel H, Tawakol A, Hoffmann U. Complementary value of cardiac FDG PET and CT for the characterization of atherosclerotic disease. *Radiographics.* 2011 Sep-Oct;31(5):1255-69. doi: 10.1148/rg.315115028. Review. PubMed PMID: 21918043.
- 58: Feuchtner G, Goetti R, Plass A, Wieser M, Scheffel H, Wyss C, Stolzmann P, Donati O, Schnabl J, Falk V, Alkadhi H, Leschka S, Cury RC. Adenosine stress high-pitch 128-slice dual-source myocardial computed tomography perfusion for imaging of reversible myocardial ischemia: comparison with magnetic resonance imaging. *Circ Cardiovasc Imaging.* 2011 Sep;4(5):540-9. doi: 10.1161/CIRCIMAGING.110.961250. Epub 2011 Aug 23. PubMed PMID: 21862731.
- 59: Reiner CS, Fischer MA, Hany T, Stolzmann P, Nanz D, Donati OF, Weishaupt D, von Schulthess GK, Scheffel H. Molecular imaging of malignant tumor metabolism: whole-body image fusion of DWI/CT vs. PET/CT. *Acad Radiol.* 2011 Aug;18(8):940-6. doi: 10.1016/j.acra.2011.03.010. PubMed PMID: 21718953.
- 60: Goetti R, Feuchtner G, Stolzmann P, Donati OF, Wieser M, Plass A, Frauenfelder T, Leschka S, Alkadhi H. Delayed enhancement imaging of myocardial viability: low-dose high-pitch CT versus MRI. *Eur Radiol.* 2011 Oct;21(10):2091-9. doi: 10.1007/s00330-011-2149-8. Epub 2011 May 15. PubMed PMID: 21573970.
- 61: Goetti R, Kozerke S, Donati OF, Sürder D, Stolzmann P, Kaufmann PA, Lüscher TF, Corti R, Manka R. Acute, subacute, and chronic myocardial infarction: quantitative comparison of 2D and 3D late gadolinium enhancement

MR imaging. Radiology. 2011 Jun;259(3):704-11. doi: 10.1148/radiol.11102216. Epub 2011 Apr 5. PubMed PMID: 21467254.

62: Stolzmann P, Donati OF, Desbiolles L, Kozerke S, Hoffmann U, Alkadhi H, Scheffel H. Coronary artery plaques and myocardial ischaemia. Eur Radiol. 2011 Aug;21(8):1628-34. doi: 10.1007/s00330-011-2097-3. Epub 2011 Mar 4. PubMed PMID: 21373773.

63: Karlo C, Zanetti M, Stolzmann P, Steurer-Dober I, Brunner F, Hodler J, Pfirrmann CW. Synovitis maps for the assessment of inflammatory diseases of the hand. Eur Radiol. 2011 Jul;21(7):1499-508. doi: 10.1007/s00330-011-2078-6. Epub 2011 Feb 14. PubMed PMID: 21327585.

64: Goetti R, Leschka S, Boschung M, Mayer S, Wyss C, Stolzmann P, Frauenfelder T. Radiation doses from phantom measurements at high-pitch dual-source computed tomography coronary angiography. Eur J Radiol. 2012 Apr;81(4):773-9. doi: 10.1016/j.ejrad.2011.01.068. Epub 2011 Feb 9. PubMed PMID: 21310565.

65: Donati OF, Alkadhi H, Scheffel H, Kuehnle C, Hennemuth A, Wyss C, Azemaj N, Plass A, Kozerke S, Falk V, Leschka S, Stolzmann P. 3D fusion of functional cardiac magnetic resonance imaging and computed tomography coronary angiography: accuracy and added clinical value. Invest Radiol. 2011 May;46(5):331-40. doi: 10.1097/RLI.0b013e3182056caf. PubMed PMID: 21285891.

66: Stolzmann P, Alkadhi H, Scheffel H, Plass A, Leschka S, Falk V, Kozerke S, Wyss C, Donati OF. Combining cardiac magnetic resonance and computed tomography coronary calcium scoring: added value for the assessment of morphological coronary disease? Int J Cardiovasc Imaging. 2011 Oct;27(7):969-77. doi: 10.1007/s10554-010-9738-5. Epub 2010 Oct 31. PubMed PMID: 21052842.

67: Leschka S, Seitun S, Dettmer M, Baumüller S, Stolzmann P, Goetti R, Scheffel H, Feuchtner G, Wunnicke K, Wildermuth S, Oehlschlegel C, Marincek B, Jochum W, Alkadhi H. Ex vivo evaluation of coronary atherosclerotic plaques: characterization with dual-source CT in comparison with histopathology. J Cardiovasc Comput Tomogr. 2010 Sep-Oct;4(5):301-8. doi:10.1016/j.jcct.2010.05.016. Epub 2010 Jun 8. PubMed PMID: 20947041.

68: Alkadhi H, Leschka S, Trindade PT, Feuchtner G, Stolzmann P, Plass A, Baumueller S. Cardiac CT for the differentiation of bicuspid and tricuspid aortic valves: comparison with echocardiography and surgery. AJR Am J Roentgenol. 2010 Oct;195(4):900-8. doi: 10.2214/AJR.09.3813. PubMed PMID: 20858816.

69: Donati OF, Burg MC, Desbiolles L, Karlo C, Stolzmann P, Bunck A, Baumueller S, Marincek B, Seifarth H, Alkadhi H, Leschka S, Maintz D. High-pitch 128-slice dual-source CT for the assessment of coronary stents in a phantom model. Acad Radiol. 2010 Nov;17(11):1366-74. doi: 10.1016/j.acra.2010.06.017. PubMed PMID: 20801697.

70: Fischer MA, Nanz D, Hany T, Reiner CS, Stolzmann P, Donati OF, Breitenstein S, Schneider P, Weishaupt D, von Schulthess GK, Scheffel H. Diagnostic accuracy of whole-body MRI/DWI image fusion for detection of malignant tumours: a comparison with PET/CT. Eur Radiol. 2011 Feb;21(2):246-55. doi: 10.1007/s00330-010-1929-x. Epub 2010 Aug 18. PubMed PMID: 20717828.

71: Karlo C, Lauber A, Götti RP, Baumüller S, Stolzmann P, Scheffel H, Desbiolles L, Schmidt B, Marincek B, Alkadhi H, Leschka S. Dual-energy CT with tin filter technology for the discrimination of renal lesion proxies containing blood, protein, and contrast-agent. An experimental phantom study. Eur Radiol. 2011 Feb;21(2):385-92. doi: 10.1007/s00330-010-1926-0. Epub 2010 Aug 15. PubMed PMID: 20711733.

72: Donati OF, Stolzmann P, Desbiolles L, Leschka S, Kozerke S, Plass A, Wyss C, Falk V, Marincek B, Alkadhi H, Scheffel H. Coronary artery disease: which degree of coronary artery stenosis is indicative of ischemia? Eur J Radiol. 2011 Oct;80(1):120-6. doi: 10.1016/j.ejrad.2010.07.010. Epub 2010 Aug 12. PubMed PMID: 20708362.

73: Karlo C, Leschka S, Goetti RP, Feuchtner G, Desbiolles L, Stolzmann P, Plass A, Falk V, Marincek B, Alkadhi H, Baumüller S. High-pitch dual-source CT angiography of the aortic valve-aortic root complex without ECG-synchronization. Eur Radiol. 2011 Jan;21(1):205-12. doi: 10.1007/s00330-010-1907-3. Epub 2010 Jul 31. PubMed PMID: 20677006.

74: Goetti R, Feuchtner G, Stolzmann P, Desbiolles L, Fischer MA, Karlo C, Baumueller S, Scheffel H, Alkadhi H, Leschka S. High-pitch dual-source CT coronary angiography: systolic data acquisition at high heart rates. Eur Radiol. 2010 Nov;20(11):2565-71. doi: 10.1007/s00330-010-1838-z. Epub 2010 Jun 29. PubMed PMID: 20585785.

75: Karlo CA, Stolzmann P, Habernig S, Müller L, Saurenmann T, Kellenberger CJ. Size, shape and age-related changes of the mandibular condyle during childhood. Eur Radiol. 2010 Oct;20(10):2512-7. doi: 10.1007/s00330-010-1828-1. Epub 2010 Jun 18. PubMed PMID: 20559836.

76: Alkadhi H, Stolzmann P, Desbiolles L, Baumueller S, Goetti R, Plass A, Scheffel H, Feuchtner G, Falk V, Marincek B, Leschka S. Low-dose, 128-slice, dual-source CT coronary angiography: accuracy and radiation dose of the high-pitch and the step-and-shoot mode. Heart. 2010 Jun;96(12):933-8. doi: 10.1136/hrt.2009.189100. PubMed PMID: 20538669.

77: Goetti R, Leschka S, Desbiolles L, Klotz E, Samaras P, von Boehmer L, Stenner F, Reiner C, Stolzmann P, Scheffel H, Knuth A, Marincek B, Alkadhi H. Quantitative computed tomography liver perfusion imaging using dynamic spiral scanning with variable pitch: feasibility and initial results in patients with cancer metastases. Invest Radiol. 2010 Jul;45(7):419-26. doi: 10.1097/RLI.0b013e3181e1937b. PubMed PMID: 20498611.

- 78: Fischer MA, Nanz D, Reiner CS, Montani M, Breitenstein S, Leschka S, Alkadhi H, Stolzmann P, Marincek B, Scheffel H. Diagnostic performance and accuracy of 3-D spoiled gradient-dual-echo MRI with water- and fat-signal separation in liver-fat quantification: comparison to liver biopsy. *Invest Radiol.* 2010 Aug;45(8):465-70. doi: 10.1097/RLI.0b013e3181da1343. PubMed PMID: 20479652.
- 79: Feuchtner G, Goetti R, Plass A, Baumueller S, Stolzmann P, Scheffel H, Wieser M, Marincek B, Alkadhi H, Leschka S. Dual-step prospective ECG-triggered 128-slice dual-source CT for evaluation of coronary arteries and cardiac function without heart rate control: a technical note. *Eur Radiol.* 2010 Sep;20(9):2092-9. doi: 10.1007/s00330-010-1794-7. Epub 2010 Apr 21. PubMed PMID: 20407896.
- 80: Goetti R, Leschka S, Baumüller S, Plass A, Wieser M, Desbiolles L, Stolzmann P, Falk V, Marincek B, Alkadhi H, Feuchtner G. Low dose high-pitch spiral acquisition 128-slice dual-source computed tomography for the evaluation of coronary artery bypass graft patency. *Invest Radiol.* 2010 Jun;45(6):324-30. doi: 10.1097/RLI.0b013e3181dfa47e. PubMed PMID: 20404735.
- 81: Goetti R, Baumüller S, Feuchtner G, Stolzmann P, Karlo C, Alkadhi H, Leschka S. High-pitch dual-source CT angiography of the thoracic and abdominal aorta: is simultaneous coronary artery assessment possible? *AJR Am J Roentgenol.* 2010 Apr;194(4):938-44. doi: 10.2214/AJR.09.3482. PubMed PMID: 20308495.
- 82: Donati OF, Scheffel H, Stolzmann P, Baumüller S, Plass A, Leschka S, Alkadhi H. Combined cardiac CT and MRI for the comprehensive workup of hemodynamically relevant coronary stenoses. *AJR Am J Roentgenol.* 2010 Apr;194(4):920-6. doi: 10.2214/AJR.09.3225. PubMed PMID: 20308492.
- 83: Leschka S, Stolzmann P, Baumüller S, Scheffel H, Desbiolles L, Schmid B, Marincek B, Alkadhi H. Performance of dual-energy CT with tin filter technology for the discrimination of renal cysts and enhancing masses. *Acad Radiol.* 2010 Apr;17(4):526-34. doi: 10.1016/j.acra.2009.11.007. PubMed PMID: 20207320.
- 84: Stolzmann P, Alkadhi H, Scheffel H, Hennemuth A, Kuehnel C, Baumueller S, Kozerke S, Falk V, Marincek B, Donati OF. Image fusion of coronary CT angiography and cardiac perfusion MRI: a pilot study. *Eur Radiol.* 2010 May;20(5):1174-9. doi: 10.1007/s00330-010-1746-2. Epub 2010 Mar 4. PubMed PMID: 20204639.
- 85: Leschka S, Kim CH, Baumueller S, Stolzmann P, Scheffel H, Marincek B, Alkadhi H. Scan length adjustment of CT coronary angiography using the calcium scoring scan: effect on radiation dose. *AJR Am J Roentgenol.* 2010 Mar;194(3):W272-7. doi: 10.2214/AJR.09.2970. PubMed PMID: 20173126.
- 86: Scheffel H, Stolzmann P, Alkadhi H, Azemaj N, Plass A, Baumueller S, Desbiolles L, Leschka S, Kozerke S, Falk V, Boesiger P, Wyss C, Marincek B, Donati OF. Low-dose CT and cardiac MR for the diagnosis of coronary artery disease: accuracy of single and combined approaches. *Int J Cardiovasc Imaging.* 2010 Jun;26(5):579-90. doi: 10.1007/s10554-010-9595-2. Epub 2010 Feb 10. PubMed PMID: 20146002.
- 87: Saur SC, Alkadhi H, Stolzmann P, Baumüller S, Leschka S, Scheffel H, Desbiolles L, Fuchs TJ, Székely G, Cattin PC. Effect of reader experience on variability, evaluation time and accuracy of coronary plaque detection with computed tomography coronary angiography. *Eur Radiol.* 2010 Jul;20(7):1599-606. doi: 10.1007/s00330-009-1709-7. Epub 2010 Jan 30. PubMed PMID: 20119728.
- 88: Scheffel H, Stolzmann P, Plass A, Leschka S, Grünenfelder J, Falk V, Marincek B, Alkadhi H. Coronary artery disease in patients with cardiac tumors: preoperative assessment by computed tomography coronary angiography. *Interact Cardiovasc Thorac Surg.* 2010 Apr;10(4):513-8. doi: 10.1510/icvts.2009.227439. Epub 2010 Jan 29. PubMed PMID: 20118120.
- 89: Feuchtner GM, Alkadhi H, Karlo C, Sarwar A, Meier A, Dichtl W, Leschka S, Blankstein R, Gruenenfelder J, Stolzmann P, Cury RC. Cardiac CT angiography for the diagnosis of mitral valve prolapse: comparison with echocardiography. *Radiology.* 2010 Feb;254(2):374-83. doi: 10.1148/radiol.2541090393. PubMed PMID: 20093510.
- 90: Stolzmann P, Goetti R, Baumueller S, Plass A, Falk V, Scheffel H, Feuchtner G, Marincek B, Alkadhi H, Leschka S. Prospective and retrospective ECG-gating for CT coronary angiography perform similarly accurate at low heart rates. *Eur J Radiol.* 2011 Jul;79(1):85-91. doi: 10.1016/j.ejrad.2009.12.016. Epub 2010 Jan 15. PubMed PMID: 20079993.
- 91: Stolzmann P, Leschka S, Scheffel H, Rentsch K, Baumüller S, Desbiolles L, Schmidt B, Marincek B, Alkadhi H. Characterization of urinary stones with dual-energy CT: improved differentiation using a tin filter. *Invest Radiol.* 2010 Jan;45(1):1-6. doi: 10.1097/RLI.0b013e3181b9dbd. PubMed PMID: 19996763.
- 92: Leschka S, Stinn B, Schmid F, Schultes B, Thurnheer M, Baumueller S, Stolzmann P, Scheffel H, Flohr TG, Wildermuth S, Alkadhi H. Dual source CT coronary angiography in severely obese patients: trading off temporal resolution and image noise. *Invest Radiol.* 2009 Nov;44(11):720-7. doi: 10.1097/RLI.0b013e3181b46f1a. PubMed PMID: 19809341.
- 93: Karlo C, Reiner CS, Stolzmann P, Breitenstein S, Marincek B, Weishaupt D, Frauenfelder T. CT- and MRI-based volumetry of resected liver specimen comparison to intraoperative volume and weight measurements and calculation of conversion factors. *Eur J Radiol.* 2010 Jul;75(1):e107-11. doi: 10.1016/j.ejrad.2009.09.005. Epub 2009 Sep 25. PubMed PMID: 19782490.

- 94: Leschka S, Stolzmann P, Desbiolles L, Baumueller S, Goetti R, Schertler T, Scheffel H, Plass A, Falk V, Feuchtner G, Marincek B, Alkadhi H. Diagnostic accuracy of high-pitch dual-source CT for the assessment of coronary stenoses: first experience. *Eur Radiol.* 2009 Dec;19(12):2896-903. doi:10.1007/s00330-009-1618-9. Epub 2009 Sep 16. PubMed PMID: 19760229.
- 95: Stolzmann P, Kozomara M, Chuck N, Müntener M, Leschka S, Scheffel H, Alkadhi H. In vivo identification of uric acid stones with dual-energy CT: diagnostic performance evaluation in patients. *Abdom Imaging.* 2010 Oct;35(5):629-35. doi: 10.1007/s00261-009-9569-9. Epub 2009 Sep 2. PubMed PMID: 19727931.
- 96: Stolzmann P, Phan C, Desbiolles L, Lachat M, Pfammatter T, Marincek B, Prokop M, Alkadhi H. The heart of patients with aortic aneurysms: evidence from cardiac computed tomography. *Interact Cardiovasc Thorac Surg.* 2009 Nov;9(5):769-73. doi: 10.1510/icvts.2009.215145. Epub 2009 Aug 25. PubMed PMID: 19706720.
- 97: Stolzmann P, Donati OF, Scheffel H, Azemaj N, Baumueller S, Plass A, Kozerke S, Leschka S, Grünenfelder J, Boesiger P, Marincek B, Alkadhi H. Low-dose CT coronary angiography for the prediction of myocardial ischaemia. *Eur Radiol.* 2010 Jan;20(1):56-64. doi: 10.1007/s00330-009-1536-x. Epub 2009 Aug 6. PubMed PMID: 19657647.
- 98: Baumüller S, Leschka S, Desbiolles L, Stolzmann P, Scheffel H, Seifert B, Marincek B, Alkadhi H. Dual-source versus 64-section CT coronary angiography at lower heart rates: comparison of accuracy and radiation dose. *Radiology.* 2009 Oct;253(1):56-64. doi: 10.1148/radiol.2531090065. Epub 2009 Jul 8. PubMed PMID: 19587311.
- 99: Schertler T, Frauenfelder T, Stolzmann P, Scheffel H, Desbiolles L, Marincek B, Kaplan V, Kucher N, Alkadhi H. Triple rule-out CT in patients with suspicion of acute pulmonary embolism: findings and accuracy. *Acad Radiol.* 2009 Jun;16(6):708-17. doi: 10.1016/j.acra.2009.01.014. PubMed PMID: 19427980.
- 100: Knight J, Kurtcuoglu V, Muffly K, Marshall W Jr, Stolzmann P, Desbiolles L, Seifert B, Poulikakos D, Alkadhi H. Ex vivo and in vivo coronary ostial locations in humans. *Surg Radiol Anat.* 2009 Oct;31(8):597-604. doi:10.1007/s00276-009-0488-9. Epub 2009 Mar 14. PubMed PMID: 19288041.
- 101: Scheffel H, Baumueller S, Stolzmann P, Leschka S, Plass A, Alkadhi H, Schertler T. Atrial myxomas and thrombi: comparison of imaging features on CT. *AJR Am J Roentgenol.* 2009 Mar;192(3):639-45. doi: 10.2214/AJR.08.1694. PubMed PMID: 19234259.
- 102: Husmann L, Gaemperli O, Valenta I, Schepis T, Scheffel H, Stolzmann P, Leschka S, Desbiolles L, Marincek B, Alkadhi H, Kaufmann PA. Impact of vessel attenuation on quantitative coronary angiography with 64-slice CT. *Br J Radiol.* 2009 Aug;82(980):649-53. doi: 10.1259/bjr/40319502. Epub 2009 Feb 16. PubMed PMID: 19221184.
- 103: van Werkhoven JM, Schuijf JD, Gaemperli O, Jukema JW, Boersma E, Wijns W, Stolzmann P, Alkadhi H, Valenta I, Stokkel MPM, Kroft LJ, de Roos A, Pundziute G, Scholte A, van der Wall EE, Kaufmann PA, Bax JJ. Prognostic value of multislice computed tomography and gated single-photon emission computed tomography in patients with suspected coronary artery disease. *J Am Coll Cardiol.* 2009 Feb 17;53(7):623-632. doi: 10.1016/j.jacc.2008.10.043. PubMed PMID: 19215839.
- 104: Alkadhi H, Desbiolles L, Stolzmann P, Leschka S, Scheffel H, Plass A, Schertler T, Trindade PT, Genoni M, Cattin P, Marincek B, Frauenfelder T. Mitral annular shape, size, and motion in normals and in patients with cardiomyopathy: evaluation with computed tomography. *Invest Radiol.* 2009 Apr;44(4):218-25. doi:10.1097/RLI.0b013e3181994a73. Erratum in: *Invest Radiol.* 2009 May;44(5):292. PubMed PMID: 19212270.
- 105: Stolzmann P, Knight J, Desbiolles L, Maier W, Scheffel H, Plass A, Kurtcuoglu V, Leschka S, Poulikakos D, Marincek B, Alkadhi H. Remodelling of the aortic root in severe tricuspid aortic stenosis: implications for transcatheter aortic valve implantation. *Eur Radiol.* 2009 Jun;19(6):1316-23. doi: 10.1007/s00330-009-1302-0. Epub 2009 Feb 4. PubMed PMID: 19190915.
- 106: Feuchtner GM, Stolzmann P, Dichtl W, Schertler T, Bonatti J, Scheffel H, Mueller S, Plass A, Mueller L, Bartel T, Wolf F, Alkadhi H. Multislice computed tomography in infective endocarditis: comparison with transesophageal echocardiography and intraoperative findings. *J Am Coll Cardiol.* 2009 Feb 3;53(5):436-44. doi: 10.1016/j.jacc.2008.01.077. PubMed PMID: 19179202.
- 107: Stolzmann P, Leschka S, Betschart T, Desbiolles L, Flohr TG, Marincek B, Alkadhi H. Radiation dose values for various coronary calcium scoring protocols in dual-source CT. *Int J Cardiovasc Imaging.* 2009 Apr;25(4):443-51. doi:10.1007/s10554-008-9397-y. Epub 2008 Dec 12. PubMed PMID: 19082870.
- 108: Stolzmann P, Scheffel H, Leschka S, Plass A, Baumüller S, Marincek B, Alkadhi H. Influence of calcifications on diagnostic accuracy of coronary CT angiography using prospective ECG triggering. *AJR Am J Roentgenol.* 2008 Dec;191(6):1684-9. doi: 10.2214/AJR.07.4040. PubMed PMID: 19020236.
- 109: Frauenfelder T, Appenzeller P, Karlo C, Scheffel H, Desbiolles L, Stolzmann P, Marincek B, Alkadhi H, Schertler T. Triple rule-out CT in the emergency department: protocols and spectrum of imaging findings. *Eur Radiol.* 2009 Apr;19(4):789-99. doi: 10.1007/s00330-008-1231-3. Epub 2008 Nov 18. PubMed PMID: 19015860.
- 110: Alkadhi H, Stolzmann P, Scheffel H, Desbiolles L, Baumüller S, Plass A, Genoni M, Marincek B, Leschka S. Radiation dose of cardiac dual-source CT: the effect of tailoring the protocol to patient-specific parameters. *Eur J Radiol.* 2008 Dec;68(3):385-91. doi: 10.1016/j.ejrad.2008.08.015. Epub 2008 Oct 30. PubMed PMID: 18976876.

- 111: Stolzmann P, Leschka S, Scheffel H, Krauss T, Desbiolles L, Plass A, Genoni M, Flohr TG, Wildermuth S, Marincek B, Alkadhi H. Dual-source CT in step-and-shoot mode: noninvasive coronary angiography with low radiation dose. *Radiology*. 2008 Oct;249(1):71-80. doi: 10.1148/radiol.2483072032. PubMed PMID: 18796669.
- 112: Leschka S, Alkadhi H, Stolzmann P, Schmid FT, Leschka SC, Scheffel H, Stinn B, Flohr TG, Marincek B, Wildermuth S. Mono- versus bisegment reconstruction algorithms for dual-source computed tomography coronary angiography. *Invest Radiol*. 2008 Oct;43(10):703-11. doi: 10.1097/RLI.0b013e31817de87b. PubMed PMID: 18791412.
- 113: Stolzmann P, Frauenfelder T, Pfammatter T, Peter N, Scheffel H, Lachat M, Schmidt B, Marincek B, Alkadhi H, Schertler T. Endoleaks after endovascular abdominal aortic aneurysm repair: detection with dual-energy dual-source CT. *Radiology*. 2008 Nov;249(2):682-91. doi: 10.1148/radiol.2483080193. Epub 2008 Sep 9. PubMed PMID: 18780822.
- 114: Leschka S, Stolzmann P, Scheffel H, Wildermuth S, Plass A, Genoni M, Marincek B, Alkadhi H. Prevalence and morphology of coronary artery ectasia with dual-source CT coronary angiography. *Eur Radiol*. 2008 Dec;18(12):2776-84. doi: 10.1007/s00330-008-1087-6. Epub 2008 Jul 19. PubMed PMID: 18641995.
- 115: Husmann L, Gaemperli O, Schepis T, Scheffel H, Valenta I, Hoeftlinghaus T, Stolzmann P, Desbiolles L, Herzog BA, Leschka S, Marincek B, Alkadhi H, Kaufmann PA. Accuracy of quantitative coronary angiography with computed tomography and its dependency on plaque composition: plaque composition and accuracy of cardiac CT. *Int J Cardiovasc Imaging*. 2008 Dec;24(8):895-904. doi: 10.1007/s10554-008-9327-z. Epub 2008 Jun 19. PubMed PMID: 18563625.
- 116: Stolzmann P, Scheffel H, Rentsch K, Schertler T, Frauenfelder T, Leschka S, Sulser T, Marincek B, Alkadhi H. Dual-energy computed tomography for the differentiation of uric acid stones: ex vivo performance evaluation. *Urol Res*. 2008 Aug;36(3-4):133-8. doi: 10.1007/s00240-008-0140-x. Epub 2008 Jun 11. PubMed PMID: 18545993.
- 117: Scheffel H, Alkadhi H, Leschka S, Plass A, Desbiolles L, Guber I, Krauss T, Gruenfelder J, Genoni M, Luescher TF, Marincek B, Stolzmann P. Low-dose CT coronary angiography in the step-and-shoot mode: diagnostic performance. *Heart*. 2008 Sep;94(9):1132-7. doi: 10.1136/heart.2008.149971. Epub 2008 Jun 2. PubMed PMID: 18519548.
- 118: Stolzmann P, Scheffel H, Leschka S, Schertler T, Frauenfelder T, Kaufmann PA, Marincek B, Alkadhi H. Reference values for quantitative left ventricular and left atrial measurements in cardiac computed tomography. *Eur Radiol*. 2008 Aug;18(8):1625-34. doi: 10.1007/s00330-008-0939-4. Epub 2008 Apr 30. PubMed PMID: 18446346.
- 119: Stolzmann P, Scheffel H, Trindade PT, Plass AR, Husmann L, Leschka S, Genoni M, Marincek B, Kaufmann PA, Alkadhi H. Left ventricular and left atrial dimensions and volumes: comparison between dual-source CT and echocardiography. *Invest Radiol*. 2008 May;43(5):284-9. doi: 10.1097/RLI.0b013e3181626853. PubMed PMID: 18424948.
- 120: Leschka S, Stolzmann P, Schmid FT, Scheffel H, Stinn B, Marincek B, Alkadhi H, Wildermuth S. Low kilovoltage cardiac dual-source CT: attenuation, noise, and radiation dose. *Eur Radiol*. 2008 Sep;18(9):1809-17. doi: 10.1007/s00330-008-0966-1. Epub 2008 Apr 8. PubMed PMID: 18392829.
- 121: Husmann L, Scheffel H, Valenta I, Schepis T, Gaemperli O, Aepli U, Siegrist PT, Leschka S, Desbiolles L, Stolzmann P, Marincek B, Alkadhi H, Kaufmann PA. Impact of hypertension on the diagnostic accuracy of coronary angiography with computed tomography. *Int J Cardiovasc Imaging*. 2008 Oct;24(7):763-70. doi: 10.1007/s10554-008-9307-3. Epub 2008 Mar 28. PubMed PMID: 18369738.
- 122: Husmann L, Schepis T, Scheffel H, Gaemperli O, Leschka S, Valenta I, Koepfli P, Desbiolles L, Stolzmann P, Marincek B, Alkadhi H, Kaufmann PA. Comparison of diagnostic accuracy of 64-slice computed tomography coronary angiography in patients with low, intermediate, and high cardiovascular risk. *Acad Radiol*. 2008 Apr;15(4):452-61. doi: 10.1016/j.acra.2007.12.008. PubMed PMID: 18342770.
- 123: Alkadhi H, Scheffel H, Desbiolles L, Gaemperli O, Stolzmann P, Plass A, Goerres GW, Luescher TF, Genoni M, Marincek B, Kaufmann PA, Leschka S. Dual-source computed tomography coronary angiography: influence of obesity, calcium load, and heart rate on diagnostic accuracy. *Eur Heart J*. 2008 Mar;29(6):766-76. doi: 10.1093/euroheartj/ehn044. Epub 2008 Feb 21. PubMed PMID: 18292596.
- 124: Siegrist PT, Husmann L, Knabenhans M, Gaemperli O, Valenta I, Hoeftlinghaus T, Scheffel H, Stolzmann P, Alkadhi H, Kaufmann PA. (13)N-ammonia myocardial perfusion imaging with a PET/CT scanner: impact on clinical decision making and cost-effectiveness. *Eur J Nucl Med Mol Imaging*. 2008 May;35(5):889-95. Epub 2007 Dec 5. PubMed PMID: 18057933.
- 125: Leschka S, Scheffel H, Desbiolles L, Plass A, Gaemperli O, Stolzmann P, Genoni M, Luescher T, Marincek B, Kaufmann P, Alkadhi H. Combining dual-source computed tomography coronary angiography and calcium scoring: added value for the assessment of coronary artery disease. *Heart*. 2008 Sep;94(9):1154-61. Epub 2007 Nov 21. PubMed PMID: 18032458.
- 126: Scheffel H, Stolzmann P, Frauenfelder T, Schertler T, Desbiolles L, Leschka S, Marincek B, Alkadhi H. Dual-energy contrast-enhanced computed tomography for the detection of urinary stone disease. *Invest Radiol*. 2007 Dec;42(12):823-9. PubMed PMID: 18007154.

- 127: Stolzmann P, Scheffel H, Schertler T, Frauenfelder T, Leschka S, Husmann L, Flohr TG, Marincek B, Kaufmann PA, Alkadhi H. Radiation dose estimates in dual-source computed tomography coronary angiography. Eur Radiol. 2008 Mar;18(3):592-9. Epub 2007 Oct 2. PubMed PMID: 17909816.
- 128: Schertler T, Scheffel H, Frauenfelder T, Desbiolles L, Leschka S, Stolzmann P, Seifert B, Flohr TG, Marincek B, Alkadhi H. Dual-source computed tomography in patients with acute chest pain: feasibility and image quality. Eur Radiol. 2007 Dec;17(12):3179-88. Epub 2007 Sep 13. PubMed PMID: 17851666; PubMed Central PMCID: PMC2077913.
- 129: Müller-Hülsbeck S, Stolzmann P, Liess C, Hedderich J, Paulsen F, Jahnke T, Heller M. Vessel wall damage caused by cerebral protection devices: ex vivo evaluation in porcine carotid arteries. Radiology. 2005 May;235(2):454-60. PubMed PMID: 15858088.
- 130: Müller-Hülsbeck S, Jahnke T, Stolzmann P, Paulsen F, Wenke R, Heller M. A new concept for covered stent protected carotid angioplasty: an ex vivo study. Rofo. 2003 Dec;175(12):1634-8. PubMed PMID: 14661133.

## FALLBESSCHREIBUNGEN

1. Orita E, Meerwein CM, Pizzuto DA, Stolzmann P, Huellner MW. The Monocle Sign in FDG-PET: A Sign of Contralateral Facial Nerve Palsy. Clin Nucl Med. 2019; 23 [Epub ahead of print]
2. Schnyder MA, Stolzmann P, Huber GF, Schmid C. A patient with a history of breast cancer and multiple bone lesions: a case report. J Med Case Rep. 2017; 11(1):127.
3. Vontobel J, Huellner M, Stolzmann P. Cerebral 'metastasizing' cardiac myxoma. Eur Heart J. 2015; 20 [Epub ahead of print]
4. Bacanovic S, Burger IA, Stolzmann P, Hafner J, Huellner MW. Ipilimumab-Induced Adrenitis: A Possible Pitfall in 18F-FDG-PET/CT. Clin Nucl Med. 2015; 40:e518-519
5. Karlo CA, Stolzmann P, Frauenfelder T, Donati OF, Leschka S. Computed tomography imaging of subpleural lipoma in two men: two case reports. J Med Case Reports. 2010; 25; 4:380
6. Guggenberger R, Andreisek G, Scheffel H, Wildermuth S, Leschka S, Stolzmann P. Absent cervical spine pedicle and associated congenital spinal abnormalities - a diagnostic trap in a setting of acute trauma: case report. BMC Med Imaging. 2010; 10:25
7. Mader C, Stolzmann P, Leschka S, Alkadhi H, Scheffel H. Hemoptysis – a sign of primary cardiac malignancy. Herz 2010; 35:335-337

## ÜBERSICHTSARBEITEN

1. Karlo CA, Stolzmann P, Do RK, Alkadhi H. Computed tomography of the spleen: how to interpret the hypodense lesion. Insights Imaging. 2013; 4: 65-76
2. Karlo CA, Leschka S, Stolzmann P, Glaser-Gallion N, Wildermuth S, Alkadhi H. A systematic approach for analysis, interpretation, and reporting of coronary CTA studies. Insights Imaging. 2012; 3: 215-228.
3. Stolzmann P, Subramanian S, Abdelbaky A, Maurovich-Horvat P, Scheffel H, Tawakol A, Hoffmann U. Complementary value of cardiac FDG PET and CT for the characterization of atherosclerotic disease. Radiographics. 2011; 31:1255-1269.
4. Stinn B, Stolzmann P, Fornaro J, Hibbeln D, Alkadhi H, Wildermuth S, Leschka S. Technical principles of computed tomography in patients with congenital heart disease. Insights Imaging. 2011; 2: 349-356
5. Fornaro J, Leschka S, Hibbeln D, Butler A, Anderson N, Pache G, Scheffel H, Wildermuth S, Alkadhi H, Stolzmann P. Dual- and Multi-Energy CT: Approach to Functional Imaging. Insights into Imaging. 2011; 2:149-159.
6. Stinn B, Stolzmann P, Fornaro J, Hibbeln D, Alkadhi H, Wildermuth S, Leschka S. Computed Tomography for Congenital Heart Disease. Insights into Imaging. 2011; 2: 349-356
7. Karlo C, Stinn B, Leschka S, Alkadhi H, Stolzmann P. Cardiac Low-Dose Computed Tomography. Praxis 2010; 99: 1285-1291
8. Schertler T, Trindade PD, Leschka S, Stolzmann P, Scheffel H, Alkadhi H. Biventricular Noncompaction and Bilateral Outflow Obstruction. Herz 2010; 35:211-212

## BÜCHER

1. Alkadhi H, Leschka S, Stolzmann P. (eds.) Praxisbuch Herz-CT: Grundlagen - Durchführung – Befundung. Springer New York, 2nd Edition, 2013. ISBN 978-3-642-35382-6
2. Alkadhi H, Leschka S, Stolzmann P, Scheffel H. (eds.) Wie funktioniert CT? Springer New York, 1st Edition, 2011. ISBN 978-3-642-17802-3

## BUCHBEITRÄGE

1. Husmann L, Stolzmann P, Steinert H: Non Small Cell Lung Cancer. In: von Schulthess, GK (ed). Molecular Anatomic Imaging, Wolters Kluwer, Köln, 3rd Edition, 2015. ISBN ISBN 978-1-451-19266-7
2. Husmann L, Stolzmann P, Steinert H: Small Cell Lung Cancer. In: von Schulthess, GK (ed). Molecular Anatomic Imaging, Wolters Kluwer, Köln, 3rd Edition, 2015. ISBN 978-1-451-19266-7
3. Alkadhi H, Stolzmann P, Leschka S, Cattin P, Szekely G, Saur S. Dual-Energy CT for Plaque Differentiation. Dual Energy CT in Clinical Practice, Springer New York, Medical Radiology, 2011, 73-7
4. Stolzmann P, Goetti RP. Protokollparameter und Bildqualität. In: Alkadhi H, Leschka S, Stolzmann P, Scheffel H. (eds.) Wie funktioniert CT? Springer New York, 1st Edition, 2011. ISBN 978-3-642-17802-3

5. Glaser-Gallion N, Stolzmann P. Erkennung und Vermeidung von Artefakten. In: Alkadhi H, Leschka S, Stolzmann P, Scheffel H. (eds.) Wie funktioniert CT? Springer New York, 1st Edition, 2011. ISBN 978-3-642-17802-3
6. Stolzmann P, Goetti RP. Dual-Energy-CT. In: Alkadhi H, Leschka S, Stolzmann P, Scheffel H. (eds.) Wie funktioniert CT? Springer New York, 1st Edition, 2011. ISBN 978-3-642-17802-3
7. Stolzmann P. Strahlenexposition. In: Alkadhi H, Leschka S, Stolzmann P, Scheffel H. (eds.) Wie funktioniert CT? Springer New York, 1st Edition, 2011. ISBN 978-3-642-17802-3
8. Stolzmann P, Alkadhi. Strategien zur Dosisreduktion. In: Alkadhi H, Leschka S, Stolzmann P, Scheffel H. (eds.) Wie funktioniert CT? Springer New York, 1st Edition, 2011. ISBN 978-3-642-17802-3
9. Stolzmann P. Strahlenexposition bei der Herz-CT: Tipps zur Dosisminimierung. In: Alkadhi H, Leschka S, Stolzmann P. (eds.) Praxisbuch Herz-CT: Grundlagen - Durchführung – Befundung. Springer New York, 2nd Edition, 2013. ISBN 978-3-642-35382-6
10. Leschka S, Alkadhi H, Stolzmann P. Untersuchungsprotokolle. In: Alkadhi H, Leschka S, Stolzmann P. (eds.) Praxisbuch Herz-CT: Grundlagen - Durchführung – Befundung. Springer New York, 2nd Edition, 2013. ISBN 978-3-642-35382-6
11. Stolzmann P. Adaptation der Protokolle bei übergewichtigen Patienten. In: Alkadhi H, Leschka S, Stolzmann P. (eds.) Praxisbuch Herz-CT: Grundlagen - Durchführung – Befundung. Springer New York, 2nd Edition, 2013. ISBN 978-3-642-35382-6
12. Stolzmann P. Ventrikelfunktion und Herzkammerdimensionen. In: Alkadhi H, Leschka S, Stolzmann P. (eds.) Praxisbuch Herz-CT: Grundlagen - Durchführung – Befundung. Springer New York, 2nd Edition, 2013. ISBN 978-3-642-35382-6