

Publikationen

1. Originalarbeiten (Original Research)

1. **Immunohistochemical differentiation and localization analysis of sweat glands in the adult human axilla.**
Beer GM, Baumüller S, Zech N, Wyss P, Strasser D, Varga Z, Seifert B, Hafner J, Mihic-Probst D. *Plast Reconstr Surg.* 2006 May;117(6):2043-9. PMID: 16651982
Impact factor: 1.864 (2006)
2. **Radiation dose of cardiac dual-source CT: the effect of tailoring the protocol to patient-specific parameters.**
Alkadhi H, Stolzmann P, Scheffel H, Desbiolles L, Baumüller S, Plass A, Genoni M, Marincek B, Leschka S. *Eur J Radiol.* 2008 Dec;68(3):385-91. Epub 2008 Oct 30. PMID: 18976876
Impact factor: 2.339 (2008)
3. **Influence of calcifications on diagnostic accuracy of coronary CT angiography using prospective ECG triggering.**
Stolzmann P, Scheffel H, Leschka S, Plass A, Baumüller S, Marincek B, Alkadhi H. *AJR Am J Roentgenol.* 2008 Dec;191(6):1684-9. PMID: 19020236
Impact factor: 2.94 (2008)
4. **Atrial myxomas and thrombi: comparison of imaging features on CT.**
Scheffel H, Baumüller S, Stolzmann P, Leschka S, Plass A, Alkadhi H, Schertler T. *AJR Am J Roentgenol.* 2009 Mar;192(3):639-45. PMID: 19234259
Impact factor: 2.951 (2009)
5. **Dual-source versus 64-section CT coronary angiography at lower heart rates: comparison of accuracy and radiation dose.**
Baumüller S, Leschka S, Desbiolles L, Stolzmann P, Scheffel H, Seifert B, Marincek B, Alkadhi H. *Radiology.* 2009 Oct;253(1):56-64. Epub 2009 Jul 8. PMID: 19587311
Impact factor: 6.341 (2009)
6. **Dual source CT coronary angiography in severely obese patients: trading off temporal resolution and image noise.**
Leschka S, Stinn B, Schmid F, Schultes B, Thurnheer M, Baumüller S, Stolzmann P, Scheffel H, Flohr TG, Wildermuth S, Alkadhi H. *Invest Radiol.* 2009 Nov;44(11):720-7. PMID: 19809341
Impact factor: 4.85 (2009)
7. **Diagnostic accuracy of high-pitch dual-source CT for the assessment of coronary stenoses: first experience.**
Leschka S, Stolzmann P, Desbiolles L, Baumüller S, Goetti R, Schertler T, Scheffel H, Plass A, Falk V, Feuchtner G, Marincek B, Alkadhi H. *Eur Radiol.* 2009 Dec;19(12):2896-903. Epub 2009 Sep 16. PMID: 19760229
Impact factor: 3.589 (2009)
8. **Low-dose CT coronary angiography for the prediction of myocardial ischaemia.**

- Stolzmann P, Donati OF, Scheffel H, Azemaj N, Baumüller S, Plass A, Kozerke S, Leschka S, Grünenfelder J, Boesiger P, Marincek B, Alkadhi H. Eur Radiol. 2010 Jan;20(1):56-64. Epub 2009 Aug 6. PMID: 19657647
Impact factor: 3.594 (2010)
9. **Characterization of urinary stones with dual-energy CT: improved differentiation using a tin filter.**
Stolzmann P, Leschka S, Scheffel H, Rentsch K, Baumüller S, Desbiolles L, Schmidt B, Marincek B, Alkadhi H. Invest Radiol. 2010 Jan;45(1):1-6. PMID: 19996763
Impact factor: 4.665 (2010)
10. **Scan length adjustment of CT coronary angiography using the calcium scoring scan: effect on radiation dose.**
Leschka S, Kim CH, Baumüller S, Stolzmann P, Scheffel H, Marincek B, Alkadhi H. AJR Am J Roentgenol. 2010 Mar;194(3):W272-7. PMID: 20173126
Impact factor: 2.797 (2010)
11. **High-pitch dual-source CT angiography of the thoracic and abdominal aorta: is simultaneous coronary artery assessment possible?**
Goetti R, Baumüller S, Feuchtner G, Stolzmann P, Karlo C, Alkadhi H, Leschka S. AJR Am J Roentgenol. 2010 Apr;194(4):938-44. PMID: 2030849
Impact factor: 2.797 (2010)
12. **Performance of dual-energy CT with tin filter technology for the discrimination of renal cysts and enhancing masses.**
Leschka S, Stolzmann P, Baumüller S, Scheffel H, Desbiolles L, Schmid B, Marincek B, Alkadhi H. Acad Radiol. 2010 Apr;17(4):526-34. PMID: 20207320
Impact factor: 2.195 (2010)
13. **Combined cardiac CT and MRI for the comprehensive workup of hemodynamically relevant coronary stenoses.**
Donati OF, Scheffel H, Stolzmann P, Baumüller S, Plass A, Leschka S, Alkadhi H. AJR Am J Roentgenol. 2010 Apr;194(4):920-6. PMID: 20308492
Impact factor: 2.797 (2010)
14. **Image fusion of coronary CT angiography and cardiac perfusion MRI: a pilot study.**
Stolzmann P, Alkadhi H, Scheffel H, Hennemuth A, Kuehnel C, Baumüller S, Kozerke S, Falk V, Marincek B, Donati OF. Eur Radiol. 2010 May;20(5):1174-9. Epub 2010 Mar 4. PMID: 20204639
Impact factor: 3.594 (2010)
15. **Low dose high-pitch spiral acquisition 128-slice dual-source computed tomography for the evaluation of coronary artery bypass graft patency.**
Goetti R, Leschka S, Baumüller S, Plass A, Wieser M, Desbiolles L, Stolzmann P, Falk V, Marincek B, Alkadhi H, Feuchtner G. Invest Radiol. 2010 Jun;45(6):324-30. PMID: 20404735
Impact factor: 4.665 (2010)
16. **Long-term follow-up, computed tomography, and computational fluid dynamics of the Cabrol procedure.**
Knight J, Baumüller S, Kurtcuoglu V, Turina M, Turina J, Schurr U, Poulikakos D, Marshall W Jr, Alkadhi H. J Thorac Cardiovasc Surg. 2010 Jun;139(6):1602-8. Epub 2009 Nov 12. PMID: 19913239
Impact factor: 3.608 (2010)

17. **Low-dose, 128-slice, dual-source CT coronary angiography: accuracy and radiation dose of the high-pitch and the step-and-shoot mode.**
Alkadhi H, Stolzmann P, Desbiolles L, [Baumueller S](#), Goetti R, Plass A, Scheffel H, Feuchtner G, Falk V, Marincek B, Leschka S. Heart. 2010 Jun;96(12):933-8. PMID: 20538669
Impact factor: 4.706 (2010)
18. **Low-dose CT and cardiac MR for the diagnosis of coronary artery disease: accuracy of single and combined approaches.**
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. Int J Cardiovasc Imaging. 2010 Jun;26(5):579-90. Epub 2010 Feb 10. PMID: 20146002
Impact factor: 2.539 (2010)
19. **Effect of reader experience on variability, evaluation time and accuracy of coronary plaque detection with computed tomography coronary angiography.**
Saur SC, Alkadhi H, Stolzmann P, Baumüller S, Leschka S, Scheffel H, Desbiolles L, Fuchs TJ, Székely G, Cattin PC. Eur Radiol. 2010 Jul;20(7):1599-606. Epub 2010 Jan 30. PMID: 20119728
Impact factor: 3.594 (2010)
20. **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.**
Feuchtner G, Goetti R, Plass A, [Baumueller S](#), Stolzmann P, Scheffel H, Wieser M, Marincek B, Alkadhi H, Leschka S. Eur Radiol. 2010 Sep;20(9):2092-9. Epub 2010 Apr 21. PMID: 20407896
Impact factor: 3.594 (2010)
21. **Ex vivo evaluation of coronary atherosclerotic plaques: characterization with dual-source CT in comparison with histopathology.**
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. J Cardiovasc Comput Tomogr. 2010 Sep-Oct;4(5):301-8. Epub 2010 Jun 8. PMID: 20947041
Impact factor: 4.506 (2013)
22. **Cardiac CT for the differentiation of bicuspid and tricuspid aortic valves: comparison with echocardiography and surgery.**
Alkadhi H, Leschka S, Trindade PT, Feuchtner G, Stolzmann P, Plass A, [Baumueller S](#). AJR Am J Roentgenol. 2010 Oct;195(4):900-8. PMID: 20858816
Impact factor: 2.797 (2010)
23. **High-pitch 128-slice dual-source CT for the assessment of coronary stents in a phantom model.**
Donati OF, Burg MC, Desbiolles L, Karlo C, Stolzmann P, Bunck A, [Baumueller S](#), Marincek B, Seifarth H, Alkadhi H, Leschka S, Maintz D. Acad Radiol. 2010 Nov;17(11):1366-74. PMID: 20801697
Impact factor: 2.195 (2010)
24. **High-pitch dual-source CT coronary angiography: systolic data acquisition at high heart rates.**

- Goetti R, Feuchtner G, Stolzmann P, Desbiolles L, Fischer MA, Karlo C, Baumüller S, Scheffel H, Alkadhi H, Leschka S. Eur Radiol. 2010 Nov;20(11):2565-71. Epub 2010 Jun 29. PMID: 20585785
Impact factor: Impact factor: 3.594 (2010)
25. **High-pitch dual-source CT angiography of the aortic valve-aortic root complex without ECG-synchronization.**
Karlo C, Leschka S, Goetti RP, Feuchtner G, Desbiolles L, Stolzmann P, Plass A, Falk V, Marincek B, Alkadhi H, Baumüller S. Eur Radiol. 2011 Jan;21(1):205-12. Epub 2010 Jul 31. PMID: 20677006
Impact factor: 3.594 (2010)
26. **Dual-energy CT with tin filter technology for the discrimination of renal lesion proxies containing blood, protein, and contrast-agent. An experimental phantom study.**
Karlo C, Lauber A, Götti RP, Baumüller S, Stolzmann P, Scheffel H, Desbiolles L, Schmidt B, Marincek B, Alkadhi H, Leschka S. Eur Radiol. 2011 Feb;21(2):385-92. Epub 2010 Aug 15. PMID: 20711733
Impact factor: 3.222 (2011)
27. **Computed tomography of the lung in the high-pitch mode: is breath holding still required?**
Baumüller S, Alkadhi H, Stolzmann P, Frauenfelder T, Goetti R, Schertler T, Plass A, Falk V, Feuchtner G, Scheffel H, Desbiolles L, Leschka S. Invest Radiol. 2011 Apr;46(4):240-5. PMID: 21217528
Impact factor: 4.593 (2011)
28. **Prospective and retrospective ECG-gating for CT coronary angiography performs similarly accurate at low heart rates.**
Stolzmann P, Goetti R, Baumüller S, Plass A, Falk V, Scheffel H, Feuchtner G, Marincek B, Alkadhi H, Leschka S. Eur J Radiol. 2011 Jul;79(1):85-91. Epub 2010 Jan 15. PMID: 20079993
Impact factor: 2.606 (2011)
29. **Automated attenuation-based tube potential selection for thoracoabdominal computed tomography angiography: improved dose effectiveness.**
Winklehner A, Goetti R, Baumüller S, Karlo C, Schmidt B, Raupach R, Flohr T, Frauenfelder T, Alkadhi H. Invest Radiol. 2011 Dec;46(12):767-73. PMID: 21730872
Impact factor: 4.593 (2011)
30. **Maximum diameter measurements of aortic aneurysms on axial CT images after endovascular aneurysm repair: sufficient for follow-up?**
Baumüller S, Nguyen TD, Goetti RP, Lachat M, Seifert B, Pfammatter T, Frauenfelder T. Cardiovasc Intervent Radiol. 2011 Dec;34(6):1182-9. Epub 2010 Oct 14. PMID: 20945067
Impact factor: 2.093 (2011)
31. **Performance of unenhanced respiratory-gated 3D SSFP MRA to depict hepatic and visceral artery anatomy and variants.**
Puipe GD, Alkadhi H, Hunziker R, Nanz D, Pfammatter T, Baumüller S. Eur J Radiol. 2012 Aug;81(8):e823-9. Epub 2012 May 10. PMID: 22578837
Impact factor: 2.512 (2012)
32. **Automated attenuation-based kilovoltage selection: preliminary observations in patients after endovascular aneurysm repair of the abdominal aorta.**

- Goetti R, Winklehner A, Gordic S, Baumüller S, Karlo CA, Frauenfelder T, Alkadhi H. AJR Am J Roentgenol. 2012 Sep;199(3):W380-5. PMID: 22915430
Impact factor: 2.897 (2012)
33. **Thoraco-abdominal high-pitch dual-source CT angiography: Experimental evaluation of injection protocols with an anatomical human vascular phantom.**
Puipe GD, Winklehner A, Hasenclever P, Plass A, Frauenfelder T, Baumüller S.
Eur J Radiol. 2012 Oct;81(10):2592-6. Epub 2012 Jan 9. PMID: 2222685
Impact factor: 2.512
34. **Low-dose CT of the lung: potential value of iterative reconstructions.**
Baumüller S, Winklehner A, Karlo C, Goetti R, Flohr T, Russi EW, Frauenfelder T,
Alkadhi H. Eur Radiol. 2012 Dec;22(12):2597-606. Epub 2012 Jun 15. PMID:
22699873
Impact factor: 3.548 (2012)
35. **Diagnostic performance of a non-contrast-enhanced magnetic resonance imaging protocol for potential living related kidney donors.**
Goetti R, Baumüller S, Alkadhi H, Clavien PA, Schiesser M, Pfammatter T, Hunziker
R, Puipe G. Acad Radiol. 2013 Apr;20(4):393-400. PMID: 23498978
Impact factor: 2.077 (2013)
36. **Safe, effective and durable epicardial left atrial appendage clip occlusion in patients with atrial fibrillation undergoing cardiac surgery: first long-term results from a prospective device trial.**
Emmert MY, Puipe G, Baumüller S, Alkadhi H, Landmesser U, Plass A, Bettex D,
Scherman J, Grünenfelder J, Genoni M, Falk V, Salzberg SP. Eur J Cardiothorac
Surg. 2013 May 8. Epub 2013 May 8. PMID: 23657550
Impact factor: 2.814 (2013)
37. **Ultralow-dose chest computed tomography for pulmonary nodule detection: first performance evaluation of single energy scanning with spectral shaping.**
Gordic S, Morsbach F, Schmidt B, Allmendinger T, Flohr T, Husarik D, Baumüller S,
Raupach R, Stolzmann P, Leschka S, Frauenfelder T, Alkadhi H. Invest Radiol. 2014
Jul;49(7):465-73. PMID: 24598443
Impact factor: 4.453 (2014)
38. **Bicuspid aortic valves: diagnostic accuracy of standard axial 64-slice chest CT compared to aortic valve image plane ECG-gated cardiac CT.**
Murphy DJ, McEvoy SH, Iyengar S, Feuchtner G, Cury RC, Roobottom C,
Baumüller S, Alkadhi H, Dodd JD. Eur J Radiol. 2014 Aug;83(8):1396-401. Epub
2014 May 17. PMID: 24890084
Impact factor: 2.16 (2014)
39. **Screening for interstitial lung disease in systemic sclerosis: performance of high-resolution CT with limited number of slices: a prospective study.**
Frauenfelder T, Winklehner A, Nguyen TD, Dobrota R, Baumüller S, Maurer B,
Distler O. Ann Rheum Dis. 2014 Dec;73(12):2069-73. Epub 2014 Sep 30. PMID:
25269829
Impact factor: 9.27 (2014)
40. **Influence of Sinogram Affirmed Iterative Reconstruction on CT based Lung Volumetry and Quantification of Pulmonary Emphysema**

Baumüller S, Hilty R, Nguyen TDL, Weder W, Alkadhi H, Frauenfelder T. J Comput Assist Tomogr., Manuscript Number: JCAT-15-180, accepted for publication Aug 2015
Impact factor: 1.411 (2015)

41. Evaluation of pulmonary nodules and infection on chest CT with radiation dose equivalent to chest radiography: Prospective intra-individual comparison study to standard dose CT

Martini K, Barth BK, Nguyen-Kim TD, Baumüller S, Alkadhi H, Frauenfelder T. Eur J Radiol. 2016 Feb;85(2):360-5. doi: 10.1016/j.ejrad.2015.11.036. PMID: 26781141

42. Dose-Optimized Computed Tomography for Screening and Follow-Up of Solid Pulmonary Nodules in Obesity: A Phantom Study

Martini K, Barth BK, Higashigaito K, Baumüller S, Alkadhi H, Frauenfelder T. Curr Probl Diagn Radiol. 2016 Aug 2. pii: S0363-0188(15)30056-6. doi:10.1067/j.cpradiol.2016.07.005. [Epub ahead of print] PMID:27662771

43. Diagnostic Value of Bronchoalveolar Lavage for Diagnosis of Suspected Peripheral Lung Cancer

Bezel P, Tischler V, Robinson C, Baumüller S, Bode-Lesniewska B, Kohler M, Freitag L, Franzen D. Clin Lung Cancer. 2016 Sep;17(5):e151-e156. doi: 10.1016/j.clcc.2015.12.012. PMID: 26831835

44. Diagnostic accuracy and added value of dual-energy subtraction radiography compared to standard conventional radiography using computed tomography as standard of reference

Martini K, Baessler M, Baumüller S, Frauenfelder T. PLoS One. 2017 Mar 16;12(3):e0174285. doi: 10.1371/journal.pone.0174285. eCollection 2017. PMID: 28301584

45. Dose-Optimized Computed Tomography for Screening and Follow-Up of Solid Pulmonary Nodules in Obesity: A Phantom Study

Martini K, Barth BK, Higashigaito K, Baumüller S, Alkadhi H, Frauenfelder T. Curr Probl Diagn Radiol. 2017 May - Jun;46(3):204-209. doi: 10.1067/j.cpradiol.2016.07.005. Epub 2016 Aug 2. PMID: 27662771

46. Chest pain CT in the emergency department: Watch out for the myocardium

Higashigaito K, Hinzpeter R, Baumüller S, Benz D, Manka R, Keller DI, Alkadhi H, Morsbach F. Eur J Radiol Open. 2018 Nov 10;5:202-208. doi: 10.1016/j.ejro.2018.10.001. eCollection 2018. PMID: 30456219

47. **Volumetric assessment of solid pulmonary nodules on ultralow-dose CT: a phantom study**

Matthias Eberhard, Daniel Stocker, Gianluca Milanese, Katharina Martini, Thi Dan Linh Nguyen-Kim, Moritz C. Wurnig, Thomas Frauenfelder, Stephan Baumüller..

JTD. Submitted Feb 20, 2019. Accepted for publication Jul 19, 2019. doi:
10.21037/jtd.2019.08.12

2. Fallbeschreibungen (Case Reports)

1. **Intramural aortic abscess mimicking chronic aortic dissection.**

Sahin A, Emmert MY, Alkadhi H, Baumüller S, Ruef C, Vogt P, Plass A, Falk V.
Heart Surg Forum. 2012 Jun;15(3):E143-4. PMID: 2227790
Impact factor: 0.458 (2012)

3. Übersichtsarbeiten (Reviews)

1. **Radiologische Abklärung bei Lungenkarzinom – Wann werden welche Instrumente eingesetzt?**

Baumüller S, Frauenfelder T. Info Onkologie & Hämatologie, May 2014, 2(4)

4. Buchbeiträge

1. **Praxisbuch Herz-CT – Grundlagen, Durchführung, Befundung**

Alkadhi et al. 2009 & 2013(2. Auflage)
Springer Verlag Berlin Heidelberg
eBook ISBN: 978-3-642-35383-3
Hardcover ISBN: 978-3-642-35382-6

5. Angeleitete Dissertationen

Dissertandin: Regina Hilty
Thema: **Influence of Sinogram Affirmed Iterative Reconstruction on CT based Lung Volumetry and Quantification of Pulmonary Emphysema**
Abschlussdatum: 2015