



## **Dr. med. Lotus Desbiolles**

**Assistenzarzt/Assistenzärztin**

**Radiologie und Nuklearmedizin · Dept. IV**

### **Kontakt**

Dr. med. Lotus Desbiolles  
Rorschacherstrasse 95  
9007 St. Gallen  
Switzerland

[lotus.desbiolles@kssg.ch](mailto:lotus.desbiolles@kssg.ch)

### **Bereiche**

Radiologie und Nuklearmedizin

### **Funktion**

Assistenzarzt/Assistenzärztin

## Publikationen (88)

Schmid S, Jochum W, Klingbiel D, Desbiolles L, Leschka S, Flatz L, Krapf M, Li Q, Diem S, Früh M. Organ-specific response to nivolumab in patients with non-small cell lung cancer (NSCLC). *Cancer Immunol Immunother* 2018

Morsbach F, Desbiolles L, Raupach R, Leschka S, Schmidt B, Alkadhi H. Noise Texture Deviation: A Measure for Quantifying Artifacts in Computed Tomography Images With Iterative Reconstructions. *Invest Radiol* 2017; 52:87-94.

Messerli M, Leschka S, Alkadhi H, Bauer R, Warschkow R, Rengier F, Desbiolles L, Wälti S, Knitel M, Kluckert J, Wildermuth S. Ultralow dose CT for pulmonary nodule detection with chest x-ray equivalent dose - a prospective intra-individual comparative study. *Eur Radiol* 2017; 27:3290-3299.

Messerli M, Rengier F, Desbiolles L, Ehl N, Bauer R, Leschka S, Alkadhi H, Wildermuth S, Nähle C. Impact of Advanced Modeled Iterative Reconstruction on Coronary Artery Calcium Quantification. *Acad Radiol* 2016; 23:1506-1512.

Gordic S, Puippe G, Krauss B, Klotz E, Desbiolles L, Lesurtel M, Mullhaupt B, Pfammatter T, Alkadhi H. Correlation between Dual-Energy and Perfusion CT in Patients with Hepatocellular Carcinoma. *Radiology* 2016; 280:78-87.

Husarik D, Gordic S, Desbiolles L, Krauss B, Leschka S, Wildermuth S, Alkadhi H. Advanced virtual monoenergetic computed tomography of hyperattenuating and hypoattenuating liver lesions: ex-vivo and patient experience in various body sizes. *Invest Radiol* 2015; 50:695-702.

Meier A, Wurnig M, Desbiolles L, Leschka S, Frauenfelder T, Alkadhi H. Advanced virtual monoenergetic images: improving the contrast of dual-energy CT pulmonary angiography. *Clin Radiol* 2015; 70:1244-51.

Gordic S, Alkadhi H, Wildermuth S, Maisano F, Husarik D, Schmidt B, Plass A, Manka R, Sedlmair M, Desbiolles L, Leschka S. Optimizing radiation dose by using advanced modelled iterative reconstruction in high-pitch coronary CT angiography. *Eur Radiol* 2015; 26:459-68.

Gordic S, Desbiolles L, Stolzmann P, Gantner L, Leschka S, Husarik D, Alkadhi H. Advanced modelled iterative reconstruction for abdominal CT: qualitative and quantitative evaluation. *Clin Radiol* 2014; 69:e497-504.

Morsbach F, Alkadhi H, Wildermuth S, Allmendinger T, Schmidt B, Frauenfelder T, Husarik D, Desbiolles L, Gordic S, Leschka S. Performance of turbo high-pitch dual-source CT for coronary CT angiography: first ex vivo and patient experience. *Eur Radiol* 2014; 24:1889-95.

Gordic S, Husarik D, Desbiolles L, Leschka S, Frauenfelder T, Alkadhi H. High-pitch coronary CT angiography with third generation dual-source CT: limits of heart rate. *Int J Cardiovasc Imaging* 2014; 30:1173-9.

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; 29:1129-35.

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; 48:32-40.

Laule M, Sinitsyn V, van Driessche L, van Mieghem C, Rowe G, Schoepf U, Davies L, Petersen S, Pugliese F, Friedrich G, Plank F, Auer T, Gopalan D, Nikolaou K, Zimmermann E, Dewey M, Hausleiter J, Hadamitzky M, Becker D, Merkely B, Bartykowszki A, Maurovich-Horvat P, Battle J, Cury R, Bamberg F, De Zordo T, Feuchtner G, Meijs M, Desbiolles L, Leschka S, Alkadhi H, Krestin G, de Feyter P, Mollet N, Galema T, Nieman K, Hunink M, Steyerberg E, Cramer M, Knuuti J, Fornaro J, Stinn B, Wildermuth S, Aldrovandi A, Seitun S, Martini C, Maffei E, Cademartiri F, Goetschalckx K, Bogaert J, Kajander S, Genders T. Prediction model to estimate presence of coronary artery disease: retrospective pooled analysis of existing cohorts. *BMJ* 2012; 344:e3485.

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* 2011

Olgac U, Knight J, Poulikakos D, Saur S, Alkadhi H, Desbiolles L, Cattin P, Kurtcuoglu V. Computed high concentrations of low-density lipoprotein correlate with plaque locations in human coronary arteries. *J Biomech* 2011; 44:2466-71.

Baumüller S, Desbiolles L, Scheffel H, Feuchtner G, Falk V, Plass A, Schertler T, Goetti R, Frauenfelder T, Stolzmann P, Alkadhi H, Leschka S. Computed tomography of the lung in the high-pitch mode: is breath holding still required?. *Invest Radiol* 2011; 46:240-5.

Stolzmann P, Donati O, Desbiolles L, Kozerke S, Hoffmann U, Alkadhi H, Scheffel H. Coronary artery plaques and myocardial ischaemia. *Eur Radiol* 2011; 21:1628-34.

Genders T, Goetschalckx K, Schoepf U, Rowe G, Schuijff J, Bax J, de Graaf F, Knuuti J, Kajander S, van Mieghem C, Meijs M, Cramer M, Gopalan D, Feuchtner G, Friedrich G, Krestin G, Hunink M, Bogaert J, Sinitsyn V, Steyerberg E, Alkadhi H, Leschka S, Desbiolles L, Nieman K, Galema T, Meijboom W, Mollet N, de Feyter P, Cademartiri F, Maffei E, Dewey M, Zimmermann E, Laule M, Pugliese F, Barbagallo R, CAD Consortium. A clinical prediction rule for the diagnosis of coronary artery disease: validation, updating, and extension. *Eur Heart J* 2011; 32:1316-30.

Leschka S, Wildermuth S, Jenni R, Prêtre R, Genoni M, Marincek B, Desbiolles L, Husmann L, Oechslin E, Alkadhi H. Pre- and postoperative evaluation of congenital heart disease in children and adults with 64-section CT. *Radiographics* 2010; 27:829-46.

Alkadhi H, Wildermuth S, Desbiolles L, Schertler T, Crook D, Marincek B, Boehm T. Vascular emergencies of the thorax after blunt and iatrogenic trauma: multi-detector row CT and three-dimensional imaging. *Radiographics* 2010; 24:1239-55.

Donati O, Leschka S, Alkadhi H, Seifarth H, Marincek B, Baumüller S, Bunck A, Stolzmann P, Karlo C, Desbiolles L, Burg M, Maintz D. High-pitch 128-slice dual-source CT for the assessment of coronary stents in a phantom model. *Acad Radiol* 2010; 17:1366-74.

Karlo C, Lauber A, Goetti R, 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* 2010; 21:385-92.

Donati O, Alkadhi H, Marincek B, Falk V, Wyss C, Plass A, Kozerke S, Leschka S, Desbiolles L, Stolzmann P, Scheffel H. Coronary artery disease: Which degree of coronary artery stenosis is indicative of ischemia?. *Eur J Radiol* 2010

Karlo C, Alkadhi H, Marincek B, Falk V, Plass A, Stolzmann P, Desbiolles L, Feuchtner G, Goetti R, Leschka S, Baumüller S. High-pitch dual-source CT angiography of the aortic valve-aortic root complex without ECG-synchronization. *Eur Radiol* 2010; 21:205-12.

Goetti R, Marincek B, Knuth A, Scheffel H, Stolzmann P, Reiner C, Stenner F, von Boehmer L, Samaras P, Klotz E, Desbiolles L, Leschka S, 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; 45:419-26.

Goetti R, Alkadhi H, Scheffel H, Baumüller S, Karlo C, Fischer M, Desbiolles L, Stolzmann P, Feuchtner G, Leschka S. High-pitch dual-source CT coronary angiography: systolic data acquisition at high heart rates. *Eur Radiol* 2010; 20:2565-71.

Alkadhi H, Marincek B, Falk V, Feuchtner G, Scheffel H, Plass A, Goetti R, Baumüller S, Desbiolles L, Stolzmann P, 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; 96:933-8.

Goetti R, Alkadhi H, Marincek B, Falk V, Stolzmann P, Desbiolles L, Wieser M, Plass A, Baumüller S, Leschka S, 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; 45:324-30.

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; 17:526-34.

Scheffel H, Marincek B, Wyss C, Boesiger P, Falk V, Kozerke S, Leschka S, Desbiolles L, Baumüller S, Plass A, Azemaj N, Alkadhi H, Stolzmann P, Donati O. Low-dose CT and cardiac MR for the diagnosis of coronary artery disease: accuracy of single and combined approaches. *Int J Cardiovasc Imaging* 2010; 26:579-90.

Saur S, Székely G, Fuchs T, Desbiolles L, Scheffel H, Leschka S, Baumüller S, Stolzmann P, Alkadhi H, Cattin P. Effect of reader experience on variability, evaluation time and accuracy of coronary plaque detection with computed tomography coronary angiography. *Eur Radiol* 2010; 20:1599-606.

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; 45:1-6.

Salzberg S, Plass A, Emmert M, Desbiolles L, Alkadhi H, Grünenfelder J, Genoni M. Left atrial appendage clip occlusion: early clinical results. *J Thorac Cardiovasc Surg* 2009; 139:1269-74.

Kawel N, Schorer G, Desbiolles L, Seifert B, Marincek B, Boehm T. Discrimination between invasive pulmonary aspergillosis and pulmonary lymphoma using CT. *Eur J Radiol* 2009

Leschka S, Marincek B, Feuchtner G, Falk V, Plass A, Scheffel H, Schertler T, Goetti R, Baumüller S, Desbiolles L, Stolzmann P, Alkadhi H. Diagnostic accuracy of high-pitch dual-source CT for the assessment of coronary stenoses: first experience. *Eur Radiol* 2009; 19:2896-903.

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; 9:769-73.

Saur S, Cattin P, Desbiolles L, Fuchs T, Székely G, Alkadhi H. Prediction rules for the detection of coronary artery plaques: evidence from cardiac CT. *Invest Radiol* 2009; 44:483-90.

Plass A, Azemaj N, Scheffel H, Desbiolles L, Alkadhi H, Genoni M, Falk V, Grünenfelder J. Accuracy of dual-source computed tomography coronary angiography: evaluation with a standardised protocol for cardiac surgeons. *Eur J Cardiothorac Surg.* 2009; 36:1011-7.

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; 253:56-64.

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; 16:708-17.

Scheffel H, Marincek B, Schertler T, Frauenfelder T, Leschka S, Desbiolles L, Lachat M, Wilhelm M, Stolzmann P, Alkadhi H. Conventional radiography and computed tomography of cardiac assist devices. *Eur Radiol* 2009; 19:2097-106.

Alkadhi H, Marincek B, Cattin P, Genoni M, Trindade P, Schertler T, Plass A, Scheffel H, Leschka S, Stolzmann P, Desbiolles L, Frauenfelder T. Mitral annular shape, size, and motion in normals and in patients with cardiomyopathy: evaluation with computed tomography. *Invest Radiol* 2009; 44:218-25.

Knight J, Kurtcuoglu V, Muffly K, Marshall W, Stolzmann P, Desbiolles L, Seifert B, Poulikakos D, Alkadhi H. Ex vivo and in vivo coronary ostial locations in humans. *Surg Radiol Anat* 2009; 31:597-604.

Saur S, Alkadhi H, Desbiolles L, Fuchs T, Székely G, Cattin P. Guided review by frequent itemset mining: additional evidence for plaque detection. *Int J Comput Assist Radiol Surg* 2009; 4:263-71.

Husmann L, Alkadhi H, Marincek B, Desbiolles L, Leschka S, Stolzmann P, Scheffel H, Schepis T, Valenta I, Gaemperli O, Kaufmann P. Impact of vessel attenuation on quantitative coronary angiography with 64-slice CT. *Br J Radiol* 2009; 82:649-53.

Stolzmann P, Marincek B, Poulikakos D, Leschka S, Kurtcuoglu V, Plass A, Scheffel H, Maier W, Desbiolles L, Knight J, Alkadhi H. Remodelling of the aortic root in severe tricuspid aortic stenosis: implications for transcatheter aortic valve implantation. *Eur Radiol* 2009; 19:1316-23.

Stolzmann P, Leschka S, Betschart T, Desbiolles L, Flohr T, Marincek B, Alkadhi H. Radiation dose values for various coronary calcium scoring protocols in dual-source CT. *Int J Cardiovasc Imaging* 2008; 25:443-51.

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* 2008; 19:789-99.

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; 68:385-91.

Stolzmann P, Marincek B, Wildermuth S, Flohr T, Genoni M, Plass A, Desbiolles L, Krauss T, Scheffel H, Leschka S, Alkadhi H. Dual-source CT in step-and-shoot mode: noninvasive coronary angiography with low radiation dose. *Radiology* 2008; 249:71-80.

Saur S, Alkadhi H, Desbiolles L, Székely G, Cattin P. ACCURATUM: improved calcium volume scoring using a mesh-based algorithm--a phantom study. *Eur Radiol* 2008; 19:591-8.

Husmann L, Alkadhi H, Marincek B, Leschka S, Herzog B, Desbiolles L, Stolzmann P, Hoefflinghaus T, Valenta I, Scheffel H, Schepis T, Gaemperli O, Kaufmann P. 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; 24:895-904.

Scheffel H, Marincek B, Luescher T, Genoni M, Gruenenfelder J, Krauss T, Guber I, Desbiolles L, Plass A, Leschka S, Alkadhi H, Stolzmann P. Low-dose CT coronary angiography in the step-and-shoot mode: diagnostic performance. *Heart* 2008; 94:1132-7.

Husmann L, Alkadhi H, Marincek B, Stolzmann P, Desbiolles L, Koepfli P, Valenta I, Leschka S, Gaemperli O, Scheffel H, Schepis T, Kaufmann P. Comparison of diagnostic accuracy of 64-slice computed tomography coronary angiography in patients with low, intermediate, and high cardiovascular risk. *Acad Radiol* 2008; 15:452-61.

Husmann L, Alkadhi H, Marincek B, Stolzmann P, Desbiolles L, Leschka S, Siegrist P, Aepli U, Gaemperli O, Schepis T, Valenta I, Scheffel H, Kaufmann P. Impact of hypertension on the diagnostic accuracy of coronary angiography with computed tomography. *Int J Cardiovasc Imaging* 2008; 24:763-70.

Alkadhi H, Kaufmann P, Marincek B, Genoni M, Luescher T, Goerres G, Plass A, Stolzmann P, Gaemperli O, Desbiolles L, Scheffel H, Leschka S. Dual-source computed tomography coronary angiography: influence of obesity, calcium load, and heart rate on diagnostic accuracy. *Eur Heart J* 2008; 29:766-76.

Gaemperli O, Valenta I, Schepis T, Husmann L, Scheffel H, Desbiolles L, Leschka S, Alkadhi H, Kaufmann P. Coronary 64-slice CT angiography predicts outcome in patients with known or suspected coronary artery disease. *Eur Radiol* 2008; 18:1162-73.

Saur S, Alkadhi H, Desbiolles L, Székely G, Cattin P. Automatic detection of calcified coronary plaques in computed tomography data sets. *Med Image Comput Comput Assist Interv* 2008; 11:170-7.

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; 42:823-9.

Leschka S, Kaufmann P, Marincek B, Luescher T, Genoni M, Stolzmann P, Gaemperli O, Plass A, Desbiolles L, Scheffel H, Alkadhi H. Combining dual-source computed tomography coronary angiography and calcium scoring: added value for the assessment of coronary artery disease. *Heart* 2007; 94:1154-61.

Schertler T, Marincek B, Flohr T, Seifert B, Stolzmann P, Leschka S, Desbiolles L, Frauenfelder T, Scheffel H, Alkadhi H. Dual-source computed tomography in patients with acute chest pain: feasibility and image quality. *Eur Radiol* 2007; 17:3179-88.

Husmann L, Kaufmann P, Marincek B, Flohr T, Frauenfelder T, Cattin P, Seifert B, Gaemperli O, Schepis T, Desbiolles L, Leschka S, Alkadhi H. Coronary artery motion and cardiac phases: dependency on heart rate -- implications for CT image reconstruction. *Radiology* 2007; 245:567-76.

Alkadhi H, Kaufmann P, Jenni R, Marincek B, Genoni M, Flohr T, Gaemperli O, Schepis T, Vachenaer R, Scheffel H, Leschka S, Plass A, Husmann L, Desbiolles L, Frauenfelder T. Aortic regurgitation: assessment with 64-section CT. *Radiology* 2007; 245:111-21.

Leschka S, Kaufmann P, Marincek B, Genoni M, Flohr T, Husmann L, Valenta I, Gaemperli O, Plass A, Desbiolles L, Scheffel H, Alkadhi H. Image quality and reconstruction intervals of dual-source CT coronary angiography: recommendations for ECG-pulsing windowing. *Invest Radiol* 2007; 42:543-9.

Desbiolles L, Kaufmann P, Marincek B, Garzoli E, Gaemperli O, Husmann L, Scheffel H, Plass A, Leschka S, Alkadhi H. Evaluation of temporal windows for coronary artery bypass graft imaging with 64-slice CT. *Eur Radiol* 2007; 17:2819-28.

Boehm T, Husmann L, Leschka S, Desbiolles L, Marincek B, Alkadhi H. Image quality of the aortic and mitral valve with CT: relative versus absolute delay reconstruction. *Acad Radiol* 2007; 14:613-24.

Gaemperli O, Alkadhi H, Husmann L, Leschka S, Desbiolles L, Stefani L, Valenta I, Namdar M, Kalff V, Schepis T, Kaufmann P. Validation of a new cardiac image fusion software for three-dimensional integration of myocardial perfusion SPECT and stand-alone 64-slice CT angiography. *Eur J Nucl Med Mol Imaging* 2007; 34:1097-106.

Gaemperli O, Alkadhi H, Husmann L, Desbiolles L, Leschka S, Soyka J, Valenta I, Koepfli P, Schepis T, Kaufmann P. Accuracy of 64-slice CT angiography for the detection of functionally relevant coronary stenoses as assessed with myocardial perfusion SPECT. *Eur J Nucl Med Mol Imaging* 2007; 34:1162-71.

Schepis T, Alkadhi H, Lüscher T, Marincek B, Wildermuth S, Eberli F, Gaemperli O, Husmann L, Desbiolles L, Leschka S, Koepfli P, Kaufmann P. Coronary artery stent geometry and in-stent contrast attenuation with 64-slice computed tomography. *Eur Radiol* 2007; 17:1464-73.

Husmann L, Kaufmann P, Marincek B, Frauenfelder T, Flohr T, Seifert B, Gaemperli O, Koepfli P, Schepis T, Desbiolles L, Leschka S, Alkadhi H. Thick maximum intensity projections for the assessment of left ventricular function with 64-slice computed tomography. *Invest Radiol* 2006; 41:746-52.

Scheffel H, Marincek B, Kaufmann P, Genoni M, Grünenfelder J, Husmann L, Schertler T, Frauenfelder T, Schepis T, Gaemperli O, Desbiolles L, Vachenaue R, Plass A, Alkadhi H, Leschka S. Accuracy of dual-source CT coronary angiography: First experience in a high pre-test probability population without heart rate control. *Eur Radiol* 2006; 16:2739-47.

Leschka S, Kaufmann P, Marincek B, Schepis T, Koepfli P, Plass A, Husmann L, Desbiolles L, Boehm T, Wildermuth S, Alkadhi H. Noninvasive coronary angiography with 64-section CT: effect of average heart rate and heart rate variability on image quality. *Radiology* 2006; 241:378-85.

Schepis T, Alkadhi H, Husmann L, Desbiolles L, Leschka S, Brunner A, Strobel K, Valenta I, Koepfli P, Gaemperli O, Kaufmann P. Comparison of 64-slice CT with gated SPECT for evaluation of left ventricular function. *J Nucl Med* 2006; 47:1288-94.

Husmann L, Kaufmann P, Marincek B, Gaemperli O, Koepfli P, Schepis T, Desbiolles L, Boehm T, Leschka S, Alkadhi H. [Influence of body mass index on coronary artery opacification in 64-slice CT angiography]. *Rofo* 2006; 178:1007-13.

Schepis T, Alkadhi H, Husmann L, Desbiolles L, Leschka S, Burger C, Rüegg C, Koepfli P, Gaemperli O, Kaufmann P. Use of coronary calcium score scans from stand-alone multislice computed tomography for attenuation correction of myocardial perfusion SPECT. *Eur J Nucl Med Mol Imaging* 2006; 34:11-9.

Alkadhi H, Wildermuth S, Plass A, Bettex D, Baumert B, Leschka S, Desbiolles L, Marincek B, Boehm T. Aortic stenosis: comparative evaluation of 16-detector row CT and echocardiography. *Radiology* 2006; 240:47-55.

Leschka S, Kaufmann P, Marincek B, Boehm T, Koepfli P, Schepis T, Gaemperli O, Desbiolles L, Husmann L, Alkadhi H. Optimal image reconstruction intervals for non-invasive coronary angiography with 64-slice CT. *Eur Radiol* 2006; 16:1964-72.

Husmann L, Kaufmann P, Marincek B, Desbiolles L, Koepfli P, Schepis T, Leschka S, Boehm T, Alkadhi H, Wildermuth S. Influence of cardiac hemodynamic parameters on coronary artery opacification with 64-slice computed tomography. *Eur Radiol* 2006; 16:1111-6.

Alkadhi H, Wildermuth S, Bettex D, Plass A, Baumert B, Leschka S, Desbiolles L, Marincek B, Boehm T. Mitral regurgitation: quantification with 16-detector row CT--initial experience. *Radiology* 2005; 238:454-63.

Baumert B, Plass A, Bettex D, Alkadhi H, Desbiolles L, Wildermuth S, Marincek B, Boehm T. Dynamic cine mode imaging of the normal aortic valve using 16-channel multidetector row computed tomography. *Invest Radiol* 2005; 40:637-47.

Alkadhi H, Bettex D, Wildermuth S, Baumert B, Plass A, Grünenfelder J, Desbiolles L, Marincek B, Boehm T. Dynamic cine imaging of the mitral valve with 16-MDCT: a feasibility study. *AJR Am J Roentgenol* 2005; 185:636-46.

Leschka S, Alkadhi H, Plass A, Desbiolles L, Grünenfelder J, Marincek B, Wildermuth S. Accuracy of MSCT coronary angiography with 64-slice technology: first experience. *Eur Heart J* 2005; 26:1482-7.

Roos J, Hilfiker P, Platz A, Desbiolles L, Boehm T, Marincek B, Weishaupt D. MDCT in emergency radiology: is a standardized chest or abdominal protocol sufficient for evaluation of thoracic and lumbar spine trauma?. *AJR Am J Roentgenol* 2004; 183:959-68.

Roos J, Desbiolles L, Weishaupt D, Wildermuth S, Hilfiker P, Marincek B, Boehm T. Multi-detector row CT: effect of iodine dose reduction on hepatic and vascular enhancement. *Rofo* 2004; 176:556-63.

Boehm T, Alkadhi H, Roffi M, Willmann J, Desbiolles L, Marincek B, Wildermuth S. Time-effectiveness, observer-dependence, and accuracy of measurements of left ventricular ejection fraction using 4-channel MDCT. *Rofo* 2004; 176:529-37.

Willmann J, Mayer D, Banyai M, Desbiolles L, Verdun F, Seifert B, Marincek B, Weishaupt D. Evaluation of peripheral arterial bypass grafts with multi-detector row CT angiography: comparison with duplex US and digital subtraction angiography. *Radiology* 2003; 229:465-74.

Roos J, Desbiolles L, Willmann J, Weishaupt D, Marincek B, Hilfiker P. Multidetector-row helical CT: analysis of time management and workflow. *Eur Radiol* 2001; 12:680-5.



## Projekte (2)

### **Dual-Energy-CT und MRT im Vergleich zum konventionellen Röntgen bei der Detektion von „Bodypacks“**

*Klinische Forschung - 01.06.2011 - 31.05.2012*

*Abgeschlossen*

### **Xenetix® 350: Vergleichende Beurteilung der Bildqualität bei der Koronarangiographie mittels Computertomographie**

*Klinische Forschung - 01.03.2011 - 01.10.2012*

*Abgeschlossen*

---

Kantonsspital St.Gallen

Rorschacher Strasse 95

CH-9007 St.Gallen

T: +41 71 494 11 11

[support.forschung@kssg.ch](mailto:support.forschung@kssg.ch)