



J Matthias Kerl

Kontakt

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Publikationen (38)

Kaup M, Vogl T, Lehnert T, Beeres M, Kerl J, Bauer R, Albrecht M, Engler A, Scholtz J, Wichmann J. Dual-Energy Computed Tomography Virtual Monoenergetic Imaging of Lung Cancer: Assessment of Optimal Energy Levels. *J Comput Assist Tomogr* 2016; 40:80-5.

Metzger S, Vogl T, Hammerstingl R, Albrecht M, Kerl J, Beeres M, Scholtz J, Buettner S, Wichmann J, Koehm M, Bauer R. Dual-Energy CT in Patients with Suspected Gouty Arthritis: Effects on Treatment Regimen and Clinical Outcome. *Acad Radiol* 2015; 23:267-72.

Frellesen C, Vogl T, Lehnert T, Kerl J, Bauer R, Metzger S, Albrecht M, Scholtz J, Hüsters K, Wichmann J, Kaup M, Bodelle B. Noise-optimized advanced image-based virtual monoenergetic imaging for improved visualization of lung cancer: Comparison with traditional virtual monoenergetic imaging. *Eur J Radiol* 2015; 85:665-72.

Frellesen C, Vogl T, Hammerstingl R, Schulz B, Kerl J, Schoepf U, De Cecco C, Wichmann J, Hardie A, Fessler F, Bauer R. Dual-energy CT of the pancreas: improved carcinoma-to-pancreas contrast with a noise-optimized monoenergetic reconstruction algorithm. *Eur J Radiol* 2015; 84:2052-8.

Hu X, Frellesen C, Kerl J, Bauer R, Beeres M, Bodelle B, Lehnert T, Vogl T, Wichmann J. Association of aortic root calcification severity with the extent of coronary artery calcification assessed by calcium-scoring dual-source computed tomography. *Eur J Radiol* 2015; 84:1910-4.

Wichmann J, Bauer R, Vogl T, Luboldt W, Frellesen C, Beeres M, Kerl J, Engler A, Hu X, Lehnert T. Dose levels and image quality of second-generation 128-slice dual-source coronary CT angiography in clinical routine. *Radiol Med* 2015; 120:1112-21.

Scholtz J, Vogl T, Lehnert T, Bauer R, Kerl J, Wagenblast J, Burck I, Schulz B, Scheerer F, Nöske E, Kraft J, Kaup M, Wichmann J. Objective and subjective image quality of primary and recurrent squamous cell carcinoma on head and neck low-tube-voltage 80-kVp computed tomography. *Neuroradiology* 2015; 57:645-51.

Albrecht M, Vogl T, Kerl J, Lehnert T, Wagenblast J, Burck I, Bucher A, Dewes P, Kaup M, Bauer R, Kraft J, Scholtz J, Wichmann J. Assessment of an Advanced Monoenergetic Reconstruction Technique in Dual-Energy Computed Tomography of Head and Neck Cancer. *Eur Radiol* 2015; 25:2493-501.

Hu X, Frellesen C, Bauer R, Kerl J, Beeres M, Bodelle B, Lehnert T, Vogl T, Wichmann J. Computed tomography of dynamic changes of the aortic root during systole and diastole in patients with coronary artery calcification. *Radiol Med* 2015; 120:595-602.

Scholtz J, Wichmann J, Kaup M, Fischer S, Kerl J, Lehnert T, Vogl T, Bauer R. First performance evaluation of software for automatic segmentation, labeling and reformation of anatomical aligned axial images of the thoracolumbar spine at CT. *Eur J Radiol* 2014; 84:437-42.

Wichmann J, Khan M, Vogl T, Lehnert T, Fischer S, Kerl J, Bauer R, Wesarg S, Booz C, Kafchitsas K. Quantitative dual-energy CT for phantomless evaluation of cancellous bone mineral density of the vertebral pedicle: correlation with pedicle screw pull-out strength. *Eur Radiol* 2014; 25:1714-20.

Frellesen C, Vogl T, Ackermann H, Wutzler S, Geiger E, Nau C, Lehnert T, Kerl J, Drieske M, Wichmann J, Boettcher M, Bauer R. Evaluation of a dual-room sliding gantry CT concept for workflow optimisation in polytrauma and regular in- and outpatient management. *Eur J Radiol* 2014; 84:117-22.

Wichmann J, Vogl T, Lehnert T, Bodelle B, Bauer R, Kerl J, Frellesen C, Eckardt A, Wagenblast J, Burck I, Kraft J, Nöske E, Schulz B. Virtual monoenergetic dual-energy computed tomography: optimization of kiloelectron volt settings in head and neck cancer. *Invest Radiol* 2014; 49:735-41.

Wichmann J, Vogl T, Hammerstingl R, Gruber-Rouh T, Kerl J, Bauer R, Wesarg S, Schulz B, Kromen W, Beeres M, Majenka P, Lehnert T. Single-portal-phase low-tube-voltage dual-energy CT for short-term follow-up of acute pancreatitis: evaluation of CT severity index, interobserver agreement and radiation dose. *Eur Radiol* 2014; 24:2927-35.

Frellesen C, Vogl T, Ackermann H, Bodelle B, Schulz B, Beeres M, Wutzler S, Geiger E, Nau C, Wichmann J, Lehnert T, Kerl J, Stock W, Bauer R. Topogram-based automated selection of the tube potential and current in thoraco-abdominal trauma CT - a comparison to fixed kV with mAs modulation alone. *Eur Radiol* 2014; 24:1725-34.

Wichmann J, Hu X, Kerl J, Schulz B, Bodelle B, Frellesen C, Lehnert T, Vogl T, Bauer R. Non-linear blending of dual-energy CT data improves depiction of late iodine enhancement in chronic myocardial infarction. *Int J Cardiovasc Imaging* 2014; 30:1145-50.

Wichmann J, Arbaciauskaite R, Kerl J, Frellesen C, Bodelle B, Lehnert T, Monsefi N, Vogl T, Bauer R. Evaluation of monoenergetic late iodine enhancement dual-energy computed tomography for imaging of chronic myocardial infarction. *Eur Radiol* 2014; 24:1211-8.

Wichmann J, Booz C, Wesarg S, Kafchitsas K, Bauer R, Kerl J, Lehnert T, Vogl T, Khan M. Dual-energy CT-based phantomless in vivo three-dimensional bone mineral density assessment of the lumbar spine. *Radiology* 2014; 271:778-84.

Wichmann J, Bauer R, Doss M, Stock W, Lehnert T, Bodelle B, Frellesen C, Vogl T, Kerl J. Diagnostic accuracy of late iodine-enhancement dual-energy computed tomography for the detection of chronic myocardial infarction compared with late gadolinium-enhancement 3-T magnetic resonance imaging. *Invest Radiol* 2013; 48:851-6.

Herzog C, Vogl T, Ackermann H, Zwerner P, Silverman J, Bauer R, Kim H, Scheuchenzuber M, Liem S, Boehme E, Tekin T, De Rosa S, Kerl J, Schoepf U. Influence of observer experience and training on proficiency in coronary CT angiography interpretation. *Eur J Radiol* 2013; 82:1240-7.

Bodelle B, Bauer R, Holthaus L, Schulz B, Al-Butmeh F, Wichmann J, Beeres M, Vogl T, Kerl J. Dose and image quality of high-pitch dual source computed tomography for the evaluation of cervical lymph node status - comparison to regular 128-slice single source computed tomography. *Eur J Radiol* 2013; 82:e281-5.

Bauer R, Radtke I, Block K, Larson M, Kerl J, Hammerstingl R, Graf T, Vogl T, Zhang S. True real-time cardiac MRI in free breathing without ECG synchronization using a novel sequence with radial k-space sampling and balanced SSFP contrast mode. *Int J Cardiovasc Imaging* 2013; 29:1059-67.

Lehnert T, Wrzesniak A, Bernhardt D, Ackermann H, Kerl J, Vega-Higuera F, Vogl T, Bauer R. Fully automated right ventricular volumetry from ECG-gated coronary CT angiography data: evaluation of prototype software. *Int J Cardiovasc Imaging* 2012; 29:489-96.

Tawfik A, Kerl J, Bauer R, Nour-Eldin N, Naguib N, Vogl T, Mack M. Dual-energy CT of head and neck cancer: average weighting of low- and high-voltage acquisitions to improve lesion delineation and image quality-initial clinical experience. *Invest Radiol* 2012; 47:306-11.

Lehnert T, Naguib N, Korkusuz H, Bauer R, Kerl J, Mack M, Vogl T. Image-quality perception as a function of dose in digital radiography. *AJR Am J Roentgenol* 2011; 197:1399-403.

Kerl J, Lehnert T, Schell B, Bodelle B, Beeres M, Jacobi V, Vogl T, Bauer R. Intravenous contrast material administration at high-pitch dual-source CT pulmonary angiography: test bolus versus bolus-tracking technique. *Eur J Radiol* 2011; 81:2887-91.

Kerl J, Vogl T, Schoepf U, Herzog C, Lehmann R, Korkusuz H, Kettner M, Kaiser C, Tandi C, Deseive S, Bauer R. Dual energy CT for the assessment of reperfused chronic infarction - a feasibility study in a porcine model. *Acta Radiol* 2011; 52:834-9.

Deseive S, Vogl T, Schoepf U, Schächinger V, Theisen A, Tandi C, Korkusuz H, Kaiser C, Kettner M, Lehmann R, Bauer R, Kerl J. Dual-energy computed tomography for the detection of late enhancement in reperfused chronic infarction: a comparison to magnetic resonance imaging and histopathology in a porcine model. *Invest Radiol* 2011; 46:450-6.

Renker M, Vogl T, Fink C, Bauer R, Kerl J, Meyer M, Zwerner P, O'Brien T, Schoepf U, Nance J, Henzler T. Evaluation of heavily calcified vessels with coronary CT angiography: comparison of iterative and filtered back projection image reconstruction. *Radiology* 2011; 260:390-9.

Paul J, Schell B, Kerl J, Maentele W, Vogl T, Bauer R. Effect of contrast material on image noise and radiation dose in adult chest computed tomography using automatic exposure control: a comparative study between 16-, 64- and 128-slice CT. *Eur J Radiol* 2011; 79:e128-32.

Renker M, Fink C, Bauer R, Kerl J, Flohr T, Vogt S, Rowe G, Apfalter P, Raupach R, Schoepf U, Ramachandra A, Henzler T. Iterative image reconstruction techniques: Applications for cardiac CT. *J Cardiovasc Comput Tomogr* 2011; 5:225-30.

Kerl J, Schoepf U, Zwerner P, Bauer R, Abro J, Thilo C, Vogl T, Herzog C. Accuracy of coronary artery stenosis detection with CT versus conventional coronary angiography compared with composite findings from both tests as an enhanced reference standard. *Eur Radiol* 2011; 21:1895-903.

Bauer R, Vogl T, Jacobi V, Schoepf U, Ackermann H, Lehnert T, Schell B, Renker M, Frellesen C, Kerl J. Dual energy CT pulmonary blood volume assessment in acute pulmonary embolism - correlation with D-dimer level, right heart strain and clinical outcome. *Eur Radiol* 2011; 21:1914-21.

Kerl J, Jacobi V, Kromen W, Larson M, Schell B, Korkusuz H, Weisser P, Weber E, Renker M, Bauer R, Vogl T. Triphasic contrast injection improves evaluation of dual energy lung perfusion in pulmonary CT angiography. *Eur J Radiol* 2010; 80:e483-7.

Bauer R, Kerl J, Weber E, Weisser P, Korkusuz H, Lehnert T, Jacobi V, Vogl T. Lung perfusion analysis with dual energy CT in patients with suspected pulmonary embolism--influence of window settings on the diagnosis of underlying pathologies of perfusion defects. *Eur J Radiol* 2010; 80:e476-82.

Kerl J, Bauer R, Maurer T, Aschenbach R, Korkusuz H, Lehnert T, Deseive S, Ackermann H, Vogl T. Dose levels at coronary CT angiography--a comparison of Dual Energy-, Dual Source- and 16-slice CT. *Eur Radiol* 2010; 21:530-7.

Bauer R, Kerl J, Fischer N, Burkhard T, Larson M, Ackermann H, Vogl T. Dual-energy CT for the assessment of chronic myocardial infarction in patients with chronic coronary artery disease: comparison with 3-T MRI. *AJR Am J Roentgenol* 2010; 195:639-46.

Schell B, Bauer R, Lehnert T, Kerl J, Hambek M, May A, Vogl T, Mack M. Low-dose computed tomography of the paranasal sinus and facial skull using a high-pitch dual-source system--first clinical results. *Eur Radiol* 2010; 21:107-12.

Projekte (0)

Keine Resultate gefunden.

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