



Julian L Wichmann

Contact

Julian L Wichmann

Publications (30)

Arendt C, Vogl T, Wildermuth S, Gohmann R, Ehl N, Jörg L, Messerli M, Wichmann J, Tischendorf P, Bauer R. Using coronary CT angiography for guiding invasive coronary angiography: potential role to reduce intraprocedural radiation exposure. *Eur Radiol* 2018; 28:2756–2762.

Martin S, Vogl T, Metzger S, Bauer R, Bodelle B, Booz C, Scholtz J, Hüasers K, Wichmann J, Albrecht M, Lehnert T. Value of a noise-optimized virtual monoenergetic reconstruction technique in dual-energy CT for planning of transcatheter aortic valve replacement. *Eur Radiol* 2016; 27:705–714.

Kaup M, Vogl T, Boettcher M, Lehnert T, Albrecht M, Kromen W, Beeres M, Scholtz J, Wichmann J, Bauer R. Dual-Energy CT-based Display of Bone Marrow Edema in Osteoporotic Vertebral Compression Fractures: Impact on Diagnostic Accuracy of Radiologists with Varying Levels of Experience in Correlation to MR Imaging. *Radiology* 2016; 280:510–9.

Bucher A, Kerl M, Albrecht M, Beeres M, Ackermann H, Wichmann J, Vogl T, Bauer R, Lehnert T. Systematic Comparison of Reduced Tube Current Protocols for High-pitch and Standard-pitch Pulmonary CT Angiography in a Large Single-center Population. *Acad Radiol* 2016; 23:619–27.

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, Hüasers 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.

Scholtz J, Wichmann J, Hüasers K, Albrecht M, Beeres M, Bauer R, Vogl T, Bodelle B. Third-generation dual-source CT of the neck using automated tube voltage adaptation in combination with advanced modeled iterative reconstruction: evaluation of image quality and radiation dose. *Eur Radiol* 2015; 26:2623–31.

Albrecht M, Vogl T, Lehnert T, Bauer R, Bodelle B, Fischer S, Martin S, Kaup M, Bucher A, Beeres M, Hüasers K, Scholtz J, Wichmann J. Advanced image-based virtual monoenergetic dual-energy CT angiography of the abdomen: optimization of kiloelectron volt settings to improve image contrast. *Eur Radiol* 2015; 26:1863–70.

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.

Beeres M, Kerl J, Vogl T, Nour-Eldin N, Frellesen C, Wichmann J, Lee C, Gruber-Rouh T, Kaup M, Scholtz J, Bauer R, Williams K, Bodelle B. First Clinical Evaluation of High-Pitch Dual-Source Computed Tomographic Angiography Comparing Automated Tube Potential Selection With Automated Tube Current Modulation. *J Comput Assist Tomogr* 2015; 39:624–8.

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.

Wichmann J, Vogl T, Lehnert T, Scholtz J, Kaup M, Bodelle B, Frellesen C, Schulz B, Kerl J, Hu X, Bauer R. 70 kVp computed tomography pulmonary angiography: potential for reduction of iodine load and radiation dose. *J Thorac Imaging* 2015; 30:69-76.

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.

Beeres M, Vogl T, Schulz B, Wichmann J, Kerl J, Mbalisike E, Gruber-Rouh T, Lee C, Bodelle B, Römer M, Bauer R. Chest-abdomen-pelvis CT for staging in cancer patients: dose effectiveness and image quality using automated attenuation-based tube potential selection. *Cancer Imaging* 2014; 14:28.

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.

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, Schell B, Beeres M, Wichmann J, Bodelle B, Vogl T, Kerl J. High-pitch dual-source computed tomography pulmonary angiography in freely breathing patients. *J Thorac Imaging* 2012; 27:376-81.

Projects (0)

No results found.

Kantonsspital St.Gallen

Rorschacher Strasse 95

CH-9007 St.Gallen

T: +41 71 494 11 11

support.forschung@kssg.ch