




Hans-Christoph Becker, MD, FSABI, FSCCT

Clinical Professor, Radiology

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Department of Radiology CV Imaging Division**

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Bio

BIO

Graduate medical studies at Ludwig-Maximilians-University/Munich, Germany. Title of doctoral thesis: In vivo and in vitro H1-NMR-spectroscopy of intracerebral tumors. Residency in diagnostic radiology and fellowship in cardiovascular radiology at LMU/Munich. Title of professorial thesis: CT of coronary atherosclerosis. Professor of Radiology and section chief for body CT in the CT department at Grosshadern campus of LMU/Munich. Previous publications on CT radiation exposure, cerebral & cardiac CT angiography, cardiac perfusion CT, rotating C-arm CT in liver intervention and tumor response assessment in oncologic imaging.

CLINICAL FOCUS

- Diagnostic Radiology

ACADEMIC APPOINTMENTS

- Clinical Professor, Radiology
- Member, Cardiovascular Institute
- Member, Stanford Cancer Institute

PROFESSIONAL EDUCATION

- Board Certification: Diagnostic Radiology, American Board of Radiology (2023)
- Residency: Ludwig-Maximilians-University Grosshadern Clinic (2001) Germany
- Medical Education: Ludwig-Maximilians-University (1993) Germany
- Internship: Ludwig-Maximilians-University Grosshadern Clinic (1992) Germany

PATENTS

- Hans-Christoph Becker, Thomas Flohr, Bernhard Schmidt. "United States Patent 14/023,626, 2014 Selection of a radiation shaping filter", Apr 24, 2015
- Hans-Christoph Becker, Ute Feuerlein, Michael Scheuring. "United States Patent 14/368,684, 2015 Control method and control system", Feb 5, 2015

- Hans-Christoph Becker, Roman Fischbach, Thomas Flohr, Andreas Kopp, Bernd Ohnesorge, Stefan Schaller. "United States Patent 7,570,983 B@ Method and data processing device to support diagnosis and/or therapy of a pathological change of a blood vessel", Siemens Aktiengesellschaft, Munich, Germany, Apr 8, 2009
- Hans-Christoph Becker, Thomas Flor, Bernd Ohnesorge. "United States Patent 6,560,309 B1 Method for examining a body region execution a periodic motion", Siemens Aktiengesellschaft, Munich, Germany, May 6, 2003

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Purpose

Myocardial bridges (MB) with associated upfront atherosclerotic lesions are common findings on coronary computed tomography angiography (CTA). Abnormal septal wall motion in exercise echocardiography (EE) may be associated with MB. Intravascular ultrasound (IVUS) is considered the gold standard for the detection of MB. The purpose of this study was to investigate whether CTA is comparable to IVUS for the assessment of MB and upstream plaques in symptomatic patients with suspicion for MB raised by EE.

Materials and Methods

We reviewed our clinical database from 2009-2014 for patients who had chest pain and EE suggestive for MB. We analyzed both CT and IVUS for atherosclerotic plaques, distance, coverage, compression and length of MB and embedded side branches. Bland-Altman, t-test and ANOVA were performed to compare these measurements.

Results

Fifty-nine patients (13-72 years) were identified. Considering IVUS as the gold standard, CTA had sensitivity for MB, plaque and side branches detection of 100%, 43,8% and 57,4%, respectively. The systematic error and limit of agreement between CTA and IVUS for the distance and length was 3.2 ± 30.9 mm and 2.2 ± 25.8 mm, respectively. There was a significant correlation between the CTA bridge coverage and the IVUS myocardial bridge thickness, but no correlation between CTA coverage and IVUS compression. Sensitivity and specificity for the detection of plaques was 43.8% and 100%, respectively.

Conclusion

CTA compares well with IVUS for the assessment of MB, however performs only moderate for the detection of atherosclerotic lesions and embedded side branches.

CLINICAL TRIALS

- Phase I RO6958688 in Locally Advanced and/or Metastatic CEA(+) Solid Tumors, Not Recruiting
- Phase 1 AGS67E Monotherapy in Refractory or Relapsed Lymphoid Malignancies, Not Recruiting
- Phase 1B Open-label of Combinations of CC-122,CC-223,CC-292 &Rituximab in DLBCL &Follicular Lymphoma, Not Recruiting
- Phase 1b/2 IPI-145 +/- Rituximab or Obinutuzumab in Previously Untreated CD20+ Follicular Lymphoma, Not Recruiting
- Phase 2 of MK-3475 (Pembrolizumab) in Relapsed or Refractory Classical Hodgkin Lymphoma (cHL), Not Recruiting
- Phase I REGN1979 in CD20+ B-Cell Malignancies Previously Treated w/ CD20-Directed Antibody Therapy, Not Recruiting
- Phase I/Ib DCDS0780A +/- Rituximab /Obinutuzumab Relapsed/Refractory B-Cell Non-Hodgkin's Lymphoma, Not Recruiting
- Phase I/II Brentuximab Vedotin with Nivolumab in Relapsed/Refractory Hodgkin Lymphoma , Not Recruiting

- Phase I/II Indoximod + Gemcitabine & Nab-Paclitaxel in Metastatic Adenocarcinoma of the Pancreas, Not Recruiting
- Phase I/II KTE-C19 in Refractory Aggressive Non-Hodgkin Lymphoma, Not Recruiting
- Phase II ACP-196 Alone and in Combination with Pembrolizumab in Recurrent Ovarian Cancer, Not Recruiting
- Phase II MK-3475 in Advanced Merkel Cell Carcinoma (MCC), Not Recruiting
- Phase II Niraparib in Women with Advanced Epithelial Ovarian /Fallopian Tube /Primary Peritoneal Ca, Not Recruiting
- Phase II Pembrolizumab in Locally Advanced Unresectable or Metastatic MMR Deficient or MSI High CRC, Not Recruiting
- Phase II Tipifarnib in Relapsed or Refractory Peripheral T-Cell Lymphoma, Not Recruiting
- Phase IIa Trastuzumab/PertuzumabErlotinibVemurafenib/CobimetinibVismodegibAlectinibAtezolizumab inST, Not Recruiting
- Phase III Brentuximab Vedotin & CHP (A+CHP) vs CHOP in CD30-Positive Mature T-cell Lymphomas, Not Recruiting
- Phase III Lurbinectedin vs Pegylated Liposomal Doxorubicin or Topotecan in Plat Resistant Ovarian Ca, Not Recruiting
- Phase III Pembrolizumab vs Chemotherapy in MSI-H / dMMR Stage IV Colorectal Carcinoma, Not Recruiting
- Phase I/II Brentuximab Vedotin plus Bendamustine in Relapsed or Refractory Hodgkin Lymphoma, Not Recruiting

PROJECTS

- Cancer and Therapy related (Personalized) Tumor Response Assessment - Stanford University

Publications

PUBLICATIONS

- **Monitoring sarcoma response to immune checkpoint inhibition and local cryotherapy with circulating tumor DNA analysis.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Bui, N. Q., Nemat-Gorgani, N., Subramanian, A., Torres, I. A., Lohman, M., Sears, T. J., van de Rijn, M., Charville, G. W., Becker, H. C., Wang, D. S., Hwang, G. L., Ganjoo, K. N., Moding, et al
2023
- **Increased Pericardial Adipose Tissue in Smokers.** *Journal of clinical medicine*
Zimmermann, G. S., Ruether, T., von Ziegler, F., Greif, M., Tittus, J., Schenzle, J., Becker, C., Becker, A.
2021; 10 (15)
- **Aorto-iliac/right leg arterial thrombosis necessitating limb amputation, pulmonary arterial, intracardiac, and ilio-caval venous thrombosis in a 40-year-old with COVID-19.** *Clinical imaging*
Madani, M. H., Leung, A. N., Becker, H. C., Chan, F. P., Fleischmann, D. n.
2021; 75: 1–4
- **Nivolumab plus ipilimumab for soft tissue sarcoma: a single institution retrospective review** *IMMUNOTHERAPY*
Zhou, M., Bui, N., Bolleddu, S., Lohman, M., Becker, H., Ganjoo, K.
2020; 12 (18): 1303–12
- **Critical Results in Radiology: Defined by Clinical Judgment or by a List?** *Journal of the American College of Radiology : JACR*
Kuhn, K., Larson, D. B., 2020 Radiology Improvement Summit Critical Results Workgroup, Becker, C., Bierhals, A., Broder, J., City, R., Cooke, E., Cordova, D., Curci, N. E., Davenport, M. S., Dinan, D., Duncan, J. R., et al
2020
- **Variability of quantitative measurements of metastatic liver lesions: a multi-radiation-dose-level and multi-reader comparison.** *Abdominal radiology (New York)*
Ding, Y., Marin, D., Vernuccio, F., Gonzalez, F., Williamson, H. V., Becker, H., Patel, B. N., Solomon, J., Ramirez-Giraldo, J. C., Samei, E., Nelson, R. C., Meyer, M.
2020
- **Accuracy of a novel stress echocardiography pattern for myocardial bridging in patients with angina and no obstructive coronary artery disease - A retrospective and prospective cohort study.** *International journal of cardiology*
Pargaonkar, V. S., Rogers, I. S., Su, J., Forsdahl, S. H., Kameda, R., Schreiber, D., Chan, F. P., Becker, H., Fleischmann, D., Tremmel, J. A., Schnittger, I.

2020

- **Nivolumab plus ipilimumab for soft tissue sarcoma: a single institution retrospective review.** *Immunotherapy*
Zhou, M. n., Bui, N. n., Bolleddu, S. n., Lohman, M. n., Becker, H. C., Ganjoo, K. n.
2020
- **Computed Tomographic Angiography-Based Fractional Flow Reserve Compared With Catheter-Based Dobutamine-Stress Diastolic Fractional Flow Reserve in Symptomatic Patients With a Myocardial Bridge and No Obstructive Coronary Artery Disease.** *Circulation. Cardiovascular imaging*
Jubran, A. n., Schnittger, I. n., Tremmel, J. n., Pargaonkar, V. n., Rogers, I. n., Becker, H. C., Yang, S. n., Mastrodicasa, D. n., Willeminck, M. n., Fleischmann, D. n., Nieman, K. n.
2020; 13 (2): e009576
- **Coronary artery calcification score in migraine patients.** *Scientific reports*
Filippopoulos, F. M., Schoeberl, F., Becker, H., Becker-Bense, S., Eren, O., Straube, A., Becker, A.
2019; 9 (1): 14069
- **Predictive value of coronary calcifications for future cardiac events in asymptomatic patients: underestimation of risk in asymptomatic smokers** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Zimmermann, G. S., Ruether, T., von Ziegler, F., Greif, M., Becker, C., Becker, A.
2019; 35 (7): 1387–93
- **Predictive value of coronary calcifications for future cardiac events in asymptomatic patients: underestimation of risk in asymptomatic smokers.** *The international journal of cardiovascular imaging*
Zimmermann, G. S., Ruther, T., Ziegler, F. V., Greif, M., Becker, C., Becker, A.
2019
- **Contrast Administration in CT: A Patient-Centric Approach** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
Kalra, M. K., Becker, H., Enterline, D. S., Lowry, C. R., Molvin, L. Z., Singh, R., Rybicki, F. J.
2019; 16 (3): 295–301
- **Diagnostic Accuracy of a Novel Stress Echocardiography Pattern for Myocardial Bridge in Patients With Angina and No Obstructive Coronary Artery Disease - a Retrospective and Prospective Validation Cohort Study**
Pargaonkar, V. S., Rogers, I. S., Su, J., Forsdahl, S., Schreiber, D., Chan, F. P., Becker, H., Fleischmann, D., Tremmel, J. A., Schnittger, I.
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Contrast Administration in CT: A Patient-Centric Approach.** *Journal of the American College of Radiology : JACR*
Kalra, M. K., Becker, H., Enterline, D. S., Lowry, C. R., Molvin, L. Z., Singh, R., Rybicki, F. J.
2018
- **Myocardial ischemia detection with single-phase CT perfusion in symptomatic patients using high-pitch helical image acquisition technique** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Bischoff, B., Deseive, S., Rampp, M., Todica, A., Wermke, M., Martinoff, S., Massberg, S., Reiser, M. F., Becker, H., Hausleiter, J.
2017; 33 (4): 569-576
- **Myocardial Bridges on Coronary Computed Tomography Angiography#- Correlation With Intravascular Ultrasound and Fractional Flow Reserve.** *Circulation Journal*
Forsdahl, S. H., Rogers, I. S., Schnittger, I., et al
2017
- **Myocardial Bridges on Coronary Computed Tomography Angiography#- Correlation With Intravascular Ultrasound and Fractional Flow Reserve.** *Circulation journal : official journal of the Japanese Circulation Society*
Forsdahl, S. H., Rogers, I. S., Schnittger, I. n., Tanaka, S. n., Kimura, T. n., Pargaonkar, V. S., Chan, F. P., Fleischmann, D. n., Tremmel, J. A., Becker, H. C.
2017
- **Myocardial ischemia detection with single-phase CT perfusion in symptomatic patients using high-pitch helical image acquisition technique.** *The international journal of cardiovascular imaging*
Bischoff, B., Deseive, S., Rampp, M., Todica, A., Wermke, M., Martinoff, S., Massberg, S., Reiser, M. F., Becker, H., Hausleiter, J.
2016: -?

- **Dynamic Myocardial CT Perfusion Imaging for Evaluation of Myocardial Ischemia as Determined by MR Imaging** *JACC-CARDIOVASCULAR IMAGING*
Bamberg, F., Marcus, R. P., Becker, A., Hildebrandt, K., Bauner, K., Schwarz, F., Greif, M., von Ziegler, F., Bischoff, B., Becker, H., Johnson, T. R., Reiser, M. F., Nikolaou, et al
2014; 7 (3): 267-277
- **Detection of Hemodynamically Significant Coronary Artery Stenosis: Incremental Diagnostic Value of Dynamic CT-based Myocardial Perfusion Imaging** *RADIOLOGY*
Bamberg, F., Becker, A., Schwarz, F., Marcus, R. P., Greif, M., von Ziegler, F., Blankstein, R., Hoffmann, U., Sommer, W. H., Hoffmann, V. S., Johnson, T. R., Becker, H. R., Wintersperger, et al
2011; 260 (3): 689-698
- **Meta-Analysis and Systematic Review of the Long-Term Predictive Value of Assessment of Coronary Atherosclerosis by Contrast-Enhanced Coronary Computed Tomography Angiography** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
Bamberg, F., Sommer, W. H., Hoffmann, V., Achenbach, S., Nikolaou, K., Conen, D., Reiser, M. F., Hoffmann, U., Becker, C. R.
2011; 57 (24): 2426-2436
- **Use of multidetector computed tomography for the assessment of acute chest pain: a consensus statement of the North American Society of Cardiac Imaging and the European Society of Cardiac Radiology** *INTERNATIONAL JOURNAL OF RADIOVASCULAR IMAGING*
Stillman, A. E., Oudkerk, M., Ackerman, M., Becker, C. R., Buszman, P. E., de Feyter, P. J., Hoffmann, U., Keadey, M. T., Marano, R., Lipton, M. J., Raff, G. L., Reddy, G. P., Rees, et al
2007; 23 (4): 415-427
- **Temozolomide in grade III gastroenteropancreatic neuroendocrine neoplasms (G3 GEPNENs): A multicentre retrospective review.** *The oncologist*
Chan, D. L., Bergsland, E. K., Chan, J. A., Gadgil, R., Halfdanarson, T. R., Hornbacker, K., Kelly, V., Kunz, P. L., McGarrah, P. W., Raj, N. P., Reidy, D. L., Thawer, A., Whitman, et al
2021
- **Comparative assessment of image quality for coronary CT angiography with iobitridol and two contrast agents with higher iodine concentrations: iopromide and iomeprol. A multicentre randomized double-blind trial.** *European radiology*
Achenbach, S., Paul, J. F., Laurent, F., Becker, H. C., Rengo, M., Caudron, J., Leschka, S., Vignaux, O., Knobloch, G., Benea, G., Schlosser, T., Andreu, J., Cabeza, et al
2016
- **Radiation protection issues in dynamic contrast-enhanced (perfusion) computed tomography** *EUROPEAN JOURNAL OF RADIOLOGY*
Brix, G., Lechel, U., Nekolla, E., Griebel, J., Becker, C.
2015; 84 (12): 2347-2358
- **Bivalirudin vs Heparin in Patients Who Undergo Transcatheter Aortic Valve Implantation** *CANADIAN JOURNAL OF RADIOLOGY*
Lange, P., Greif, M., Bongiovanni, D., Thaumann, A., Naebauer, M., Bischoff, B., Helbig, S., Becker, C., Schmitz, C., D'Anastasi, M., Mehilli, J., Boekstegers, P., Massberg, et al
2015; 31 (8): 998-1003
- **Contrast-induced acute kidney injury after computed tomography prior to transcatheter aortic valve implantation** *CLINICAL RADIOLOGY*
Jochheim, D., Schneider, V., Schwarz, F., Kupatt, C., LANGE, P., Reiser, M., Massberg, S., Gutierrez-Chico, J., Mehilli, J., Becker, H.
2014; 69 (10): 1034-1038
- **CT-Angiography Based Evaluation of the Aortic Annulus for Prosthesis Sizing in Transcatheter Aortic Valve Implantation (TAVI)-Predictive Value and Optimal Thresholds for Major Anatomic Parameters** *PLOS ONE*
Schwarz, F., Lange, P., Zinsser, D., Greif, M., Boekstegers, P., Schmitz, C., Reiser, M. F., Kupatt, C., Becker, H. C.
2014; 9 (8)
- **Comparison of patient comfort between iodixanol and iopamidol in contrast-enhanced computed tomography of the abdomen and pelvis: a randomized trial** *ACTA RADIOLOGICA*
Weiland, F. L., Marti-Bonmati, L., Lim, L., Becker, H.
2014; 55 (6): 715-724
- **Multicenter Evaluation Of Coronary Dual-Source CT angiography in patients with intermediate Risk of Coronary Artery Stenoses (MEDIC): study design and rationale.** *Journal of cardiovascular computed tomography*
Marwan, M., Hausleiter, J., Abbara, S., Hoffmann, U., Becker, C., Ovrehus, K., Ropers, D., Bathina, R., Berman, D., Anders, K., Uder, M., Meave, A., Alexánder, et al

2014; 8 (3): 183-188

- **Transcatheter aortic valve replacement with the Edwards SAPIEN XT and Medtronic CoreValve prosthesis under fluoroscopic guidance and local anaesthesia only** *HEART*
Greif, M., Lange, P., Naebauer, M., Schwarz, F., Becker, C., Schmitz, C., Pohl, T., D'Anastasi, M., Boekstegers, P., Massberg, S., Kupatt, C.
2014; 100 (9): 691-695
- **Distribution of coronary calcifications in patients with suspected coronary heart disease** *AMERICAN HEART JOURNAL*
von Ziegler, F., Greif, M., Tittus, J., Schenzle, J., Becker, C., Becker, A.
2014; 167 (4): 568-575
- **Determination of Split Renal Function Using Dynamic CT-Angiography: Preliminary Results** *PLOS ONE*
Helck, A., Schoenermarck, U., Habicht, A., Notohamiprodjo, M., Stangl, M., Klotz, E., Nikolaou, K., La Fougere, C., Clevert, D. A., Reiser, M., Becker, C.
2014; 9 (3)
- **Reduction of pacemaker implantation rates after CoreValve (R) implantation by moderate predilatation** *EUROINTERVENTION*
Lange, P., Greif, M., Vogel, A., Thaumann, A., Helbig, S., Schwarz, F., Schmitz, C., Becker, C., D'Anastasi, M., Boekstegers, P., Pohl, T., Laubender, R. P., Steinbeck, et al
2014; 9 (10): 1151-1157
- **Use of multi-slice computed tomography in patients with chest-pain submitted to the emergency department** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
von Ziegler, F., Schenzle, J., Schiessl, S., Greif, M., Helbig, S., Tittus, J., Becker, C., Becker, A.
2014; 30 (1): 145-153
- **High-pitch coronary CT angiography in dual-source CT during free breathing vs. breath holding in patients with low heart rates** *EUROPEAN JOURNAL OF RADIOLOGY*
Bischoff, B., Meinel, F. G., Del Prete, A., Reiser, M. F., Becker, H.
2013; 82 (12): 2217-2221
- **CT perfusion technique for assessment of early kidney allograft dysfunction: preliminary results** *EUROPEAN RADIOLOGY*
Helck, A., Wessely, M., Notohamiprodjo, M., Schoenermarck, U., Klotz, E., Fischereeder, M., Schoen, F., Nikolaou, K., Clevert, D. A., Reiser, M., Becker, C.
2013; 23 (9): 2475-2481
- **Increased pericardial adipose tissue is correlated with atrial fibrillation and left atrial dilatation** *CLINICAL RESEARCH IN CARDIOLOGY*
Greif, M., von Ziegler, F., Wakili, R., Tittus, J., Becker, C., Helbig, S., Laubender, R. P., Schwarz, W., D'Anastasi, M., Schenzle, J., Leber, A. W., Becker, A.
2013; 102 (8): 555-562
- **Partial inferior sternotomy and deep hypothermic circulatory arrest for rescue of a failed TAVI case: what does constitute 'inoperable'?** *Thoracic and cardiovascular surgeon*
Schramm, R., Mair, H., Becker, C., Schwarz, F., Bombien, R., Juchem, G., Sodian, R., Kupatt, C., Schmitz, C.
2013; 61 (5): 431-434
- **CT stress perfusion imaging for detection of haemodynamically relevant coronary stenosis as defined by FFR** *HEART*
Greif, M., von Ziegler, F., Bamberg, F., Tittus, J., Schwarz, F., D'Anastasi, M., Marcus, R. P., Schenzle, J., Becker, C., Nikolaou, K., Becker, A.
2013; 99 (14): 1004-1011
- **Tumor response and clinical outcome in metastatic gastrointestinal stromal tumors under sunitinib therapy: Comparison of RECIST, Choi and volumetric criteria** *EUROPEAN JOURNAL OF RADIOLOGY*
Schramm, N., Englhart, E., Schlemmer, M., Hittinger, M., Uebles, C., Becker, C. R., Reiser, M. F., Berger, F.
2013; 82 (6): 951-958
- **Transcatheter Aortic Valve Implantation in Aortic Coarctation** *THORACIC AND CARDIOVASCULAR SURGEON*
Schramm, R., Kupatt, C., Becker, C., Bombien, R., Reichart, B., Sodian, R., Schmitz, C.
2013; 61 (4): 336-339
- **Novel single-source high-pitch protocol for CT angiography of the aorta: comparison to high-pitch dual-source protocol in the context of TAVI planning** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Bischoff, B., Meinel, F. G., Reiser, M., Becker, H.

2013; 29 (5): 1159-1165

- **Lowering Radiation Exposure in CT Angiography Using Automated Tube Potential Selection and Optimized Iodine Delivery Rate** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Schwarz, F., Grandl, K., Arnoldi, A., Kirchin, M. A., Bamberg, F., Reiser, M. F., Becker, C. R.
2013; 200 (6): W628-W634
- **CT imaging of myocardial perfusion: Possibilities and perspectives** *JOURNAL OF NUCLEAR CARDIOLOGY*
Becker, A., Becker, C.
2013; 20 (2): 289-296
- **Optimal timing for first-pass stress CT myocardial perfusion imaging** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Bischoff, B., Bamberg, F., Marcus, R., Schwarz, F., Becker, H., Becker, A., Reiser, M., Nikolaou, K.
2013; 29 (2): 435-442
- **Lipoprotein (a) is independently correlated with coronary artery calcification** *EUROPEAN JOURNAL OF INTERNAL MEDICINE*
Greif, M., Arnoldt, T., von Ziegler, F., Ruemmler, J., Becker, C., Wakili, R., D'Anastasi, M., Schenzle, J., Leber, A. W., Becker, A.
2013; 24 (1): 75-79
- **Dose reduction in oncological staging multidetector CT: effect of iterative reconstruction** *BRITISH JOURNAL OF RADIOLOGY*
Karpitschka, M., Augart, D., Becker, H., Reiser, M., Graser, A.
2013; 86 (1021)
- **Classification of endoleaks in the follow-up after EVAR using the time-to-peak of the contrast agent in CEUS examinations.** *Clinical hemorheology and microcirculation*
Clevett, D. A., Gürtler, V. M., Meimarakis, G., D'Anastasi, M., Weidenhagen, R., Reiser, M. F., Becker, C. R.
2013; 55 (1): 183-191
- **Transcatheter Edwards Sapien XT valve in valve implantation in degenerated aortic bioprostheses via transfemoral access** *CLINICAL RESEARCH IN RADIOLOGY*
Greif, M., Lange, P., Mair, H., Becker, C., Schmitz, C., Steinbeck, G., Kupatt, C.
2012; 101 (12): 993-1001
- **Diagnostic image quality of a comprehensive high-pitch dual-spiral cardiothoracic CT protocol in patients with undifferentiated acute chest pain** *EUROPEAN JOURNAL OF RADIOLOGY*
Bamberg, F., Marcus, R., Sommer, W., Schwarz, F., Nikolaou, K., Becker, C. R., Reiser, M. F., Johnson, T. R.
2012; 81 (12): 3697-3702
- **Cardiac CT for the assessment of chest pain: Imaging techniques and clinical results** *EUROPEAN JOURNAL OF RADIOLOGY*
Becker, H., Johnson, T.
2012; 81 (12): 3675-3679
- **Detection of significant coronary artery stenosis with cardiac dual-source computed tomography angiography in heart transplant recipients.** *Transplant international*
von Ziegler, F., Rümmler, J., Kaczmarek, I., Greif, M., Schenzle, J., Helbig, S., Becker, C., Meiser, B., Becker, A.
2012; 25 (10): 1065-1071
- **Combined anatomical and functional imaging using coronary CT angiography and myocardial perfusion SPECT in symptomatic adults with abnormal origin of a coronary artery** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Uebleis, C., Groebner, M., von Ziegler, F., Becker, A., Rischpler, C., TEGTMEYER, R., Becker, C., Lehner, S., HAUG, A. R., Cumming, P., Bartenstein, P., Franz, W. M., Hacker, et al
2012; 28 (7): 1763-1774
- **Course of size and density of metastatic renal cell carcinoma lesions in the early follow-up of molecular targeted therapy** *UROLOGIC ONCOLOGY-SEMINARS AND ORIGINAL INVESTIGATIONS*
Hittinger, M., Staehler, M., Schramm, N., Uebleis, C., Becker, C., Reiser, M., Berger, F.
2012; 30 (5): 695-703
- **Hyperdense basilar artery sign-a reliable sign of basilar artery occlusion** *NEURORADIOLOGY*
Connell, L., Koerte, I. K., Laubender, R. P., Morhard, D., Linn, J., Becker, H. C., Reiser, M., Brueckmann, H., Ertl-Wagner, B.
2012; 54 (4): 321-327

- **Radiation Exposure and Image Quality of Normal Computed Tomography Brain Images Acquired With Automated and Organ-Based Tube Current Modulation Multiband Filtering and Iterative Reconstruction** *INVESTIGATIVE RADIOLOGY*
Becker, H., Augart, D., Karpitschka, M., Ulzheimer, S., Bamberg, F., Morhard, D., Neumaier, K., Graser, A., Johnson, T., Reiser, M.
2012; 47 (3): 202-207
- **Three-Dimensional Printing of Models for Preoperative Planning and Simulation of Transcatheter Valve Replacement** *ANNALS OF THORACIC SURGERY*
Schmauss, D., Schmitz, C., Bigdeli, A. K., Weber, S., Gerber, N., Beiras-Fernandez, A., Schwarz, F., Becker, C., Kupatt, C., Sodian, R.
2012; 93 (2): E31-E33
- **Determination of Pericardial Adipose Tissue Increases the Prognostic Accuracy of Coronary Artery Calcification for Future Cardiovascular Events** *CARDIOLOGY*
Greif, M., Leber, A. W., Saam, T., Uebleis, C., von Ziegler, F., Ruemmler, J., D'Anastasi, M., Arias-Herrera, V., Becker, C., Steinbeck, G., Hacker, M., Becker, A.
2012; 121 (4): 220-227
- **Optimized contrast volume for dynamic CT angiography in renal transplant patients using a multiphase CT protocol** *EUROPEAN JOURNAL OF RADIOLOGY*
Helck, A., BAMBERG, F., Sommer, W. H., Wessely, M., Becker, C., Clevert, D. A., Notohamiprodjo, M., Reiser, M., Nikolaou, K.
2011; 80 (3): 692-698
- **Coronary Calcifications Detected by Computed Tomography Are Not Markers of Cardiac Allograft Vasculopathy** *TRANSPLANTATION*
von Ziegler, F., Kaczmarek, I., Knez, A., Greif, M., Ruemmler, J., Meiser, B., Reichart, B., Becker, C., Steinbeck, G., Becker, A.
2011; 92 (4): 493-498
- **The incremental value of coronary artery calcium scores to myocardial single photon emission computer tomography in risk assessment** *JOURNAL OF NUCLEAR CARDIOLOGY*
Hacker, M., Becker, C.
2011; 18 (4): 700-711
- **Multicenter Comparison of High Concentration Contrast Agent Iomeprol-400 With Iso-osmolar Iodixanol-320 Contrast Enhancement and Heart Rate Variation in Coronary Dual-Source Computed Tomographic Angiography** *INVESTIGATIVE RADIOLOGY*
Becker, C. R., Vanzulli, A., Fink, C., de Faveri, D., Fedeli, S., Dore, R., Biondetti, P., Kuettner, A., Krix, M., Ascenti, G.
2011; 46 (7): 457-464
- **Metal artifact reduction by dual energy computed tomography using monoenergetic extrapolation** *EUROPEAN RADIOLOGY*
Bamberg, F., Dierks, A., Nikolaou, K., Reiser, M. F., Becker, C. R., Johnson, T. R.
2011; 21 (7): 1424-1429
- **C-Arm Computed Tomography Compared With Positron Emission Tomography/Computed Tomography for Treatment Planning Before Radioembolization** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*
Becker, C., Waggershauer, T., Tiling, R., Weckbach, S., Johnson, T., Meissner, O., Klingenberg-Regn, K., Reiser, M., Hoffmann, R. T.
2011; 34 (3): 550-556
- **Dual Energy CT for Monitoring Targeted Therapies in Patients with Advanced Gastrointestinal Stromal Tumor: Initial Results** *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*
Schramm, N., Schlemmer, M., Enghart, E., HITTINGER, M., Becker, C., Reiser, M., Berger, F.
2011; 12 (4): 547-557
- **Perfusion patterns of metastatic gastrointestinal stromal tumor lesions under specific molecular therapy** *EUROPEAN JOURNAL OF RADIOLOGY*
Schlemmer, M., Sourbron, S. P., Schinwald, N., Nikolaou, K., Becker, C. R., Reiser, M. F., Berger, F.
2011; 77 (2): 312-318
- **Electrocardiogram-Gated F-18-FDG PET/CT Hybrid Imaging in Patients with Unsatisfactory Response to Cardiac Resynchronization Therapy: Initial Clinical Results** *JOURNAL OF NUCLEAR MEDICINE*
Uebleis, C., Ulbrich, M., Tegtmeier, R., Schuessler, F., Haserueck, N., Siebermair, J., Becker, C., Nekolla, S., Cumming, P., Bartenstein, P., Kaeae, S., Hacker, M.
2011; 52 (1): 67-71
- **Diagnostic value of time-resolved CT angiography for the lower leg** *EUROPEAN RADIOLOGY*

- Sommer, W. H., Helck, A., Bamberg, F., Albrecht, E., Becker, C. R., Weidenhagen, R., Kramer, H., Reiser, M. F., Nikolaou, K.
2010; 20 (12): 2876-2881
- **Practical Strategies for Low Radiation Dose Cardiac Computed Tomography** *JOURNAL OF THORACIC IMAGING*
Henzler, T., Hanley, M., Arnoldi, E., Bastarrika, G., Schoepf, U. J., Becker, H.
2010; 25 (3): 213-220
 - **Determination of Glomerular Filtration Rate Using Dynamic CT-Angiography Simultaneous Acquisition of Morphological and Functional Information** *INVESTIGATIVE RADIOLOGY*
Helck, A., Sommer, W. H., Klotz, E., Wessely, M., Nikolaou, K., Clevert, D. A., Notohamiprodjo, M., Illner, W. D., Reiser, M., Becker, H.
2010; 45 (7): 387-392
 - **Single-Phase Dual- Energy CT Allows for Characterization of Renal Masses as Benign or Malignant** *INVESTIGATIVE RADIOLOGY*
Graser, A., Becker, C. R., Staehler, M., Clevert, D. A., Macari, M., Arndt, N., Nikolaou, K., Sommer, W., Stief, C., Reiser, M. F., Johnson, T. R.
2010; 45 (7): 399-405
 - **Advantages of Extended Brain Perfusion Computed Tomography 9.6 cm Coverage With Time Resolved Computed Tomography-Angiography in Comparison to Standard Stroke-Computed Tomography** *INVESTIGATIVE RADIOLOGY*
Morhard, D., Wirth, C. D., Fesl, G., Schmidt, C., Reiser, M. F., Becker, C. R., Ertl-Wagner, B.
2010; 45 (7): 363-369
 - **Dual Energy CT of the Chest How About the Dose?** *INVESTIGATIVE RADIOLOGY*
Schenzle, J. C., Sommer, W. H., Neumaier, K., Michalski, G., Lechel, U., Nikolaou, K., Becker, C. R., Reiser, M. F., Johnson, T. R.
2010; 45 (6): 347-353
 - **Systolic acquisition of coronary dual-source computed tomography angiography: feasibility in an unselected patient population** *EUROPEAN RADIOLOGY*
Bamberg, F., Sommer, W. H., Schenzle, J. C., Becker, C. R., Nikolaou, K., Reiser, M. F., Johnson, T. R.
2010; 20 (6): 1331-1336
 - **Assessment of radiation exposure on a dual-source computed tomography-scanner performing coronary computed tomography-angiography.** *European journal of radiology*
Kirchhoff, S., Herzog, P., Johnson, T., Böhm, H., Nikolaou, K., Reiser, M. F., Becker, C. H.
2010; 74 (3): e181-5
 - **Time-resolved Computed Tomography Imaging of the Aorta A Feasibility Study** *JOURNAL OF THORACIC IMAGING*
Sommer, W. H., Clevert, D. A., Bamberg, F., Helck, A., Albrecht, E., Reiser, M. F., Becker, C. R., Nikolaou, K.
2010; 25 (2): 161-167
 - **Dynamic myocardial stress perfusion imaging using fast dual-source CT with alternating table positions: initial experience** *EUROPEAN RADIOLOGY*
Bamberg, F., Klotz, E., Flohr, T., Becker, A., Becker, C. R., Schmidt, B., Wintersperger, B. J., Reiser, M. F., Nikolaou, K.
2010; 20 (5): 1168-1173
 - **Image Quality of Virtual Noncontrast Images Derived from Dual-energy CT Angiography after Endovascular Aneurysm Repair** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Sommer, W. H., Graser, A., Becker, C. R., Clevert, D. A., Reiser, M. F., Nikolaou, K., Johnson, T. R.
2010; 21 (3): 315-321
 - **Saving Dose in Triple-Rule-Out Computed Tomography Examination Using a High-Pitch Dual Spiral Technique** *INVESTIGATIVE RADIOLOGY*
Sommer, W. H., Schenzle, J. C., Becker, C. R., Nikolaou, K., Graser, A., Michalski, G., Neumaier, K., Reiser, M. F., Johnson, T. R.
2010; 45 (2): 64-71
 - **Comparison of time-resolved CT-angiography, contrast-enhanced ultrasound and digital subtraction angiography in a patient with a small type II endoleak after endovascular aneurysm repair** *CLINICAL HEMORHEOLOGY AND MICROCIRCULATION*
Sommer, W. H., Hoffmann, R. T., Becker, C. R., Reiser, M. F., Clevert, D. A.
2010; 45 (1): 19-25
 - **Evaluation of Coronary Atherosclerotic Plaques** *CARDIOLOGY CLINICS*
Becker, C. R., Saam, T.

2009; 27 (4): 611-?

- **MMP-1 serum levels predict coronary atherosclerosis in humans** *CARDIOVASCULAR DIABETOLOGY*
Lehrke, M., Greif, M., Broedl, U. C., Leberherz, C., Laubender, R. P., Becker, A., von Ziegler, F., Tittus, J., Reiser, M., Becker, C., Goeke, B., Steinbeck, G., Leber, et al
2009; 8
- **Stable Coronary Artery Disease: Prognostic Value of Myocardial Perfusion SPECT in Relation to Coronary Calcium Scoring-Longterm Follow-up** *RADIOLOGY*
Uebleis, C., Becker, A., Griesshammer, I., Cumming, P., Becker, C., Schmidt, M., Bartenstein, P., Hacker, M.
2009; 252 (3): 682-690
- **Adequate image quality with reduced radiation dose in prospectively triggered coronary CTA compared with retrospective techniques** *EUROPEAN RADIOLOGY*
Arnoldi, E., Johnson, T. R., Rist, C., Wintersperger, B. J., Sommer, W. H., Becker, A., Becker, C. R., Reiser, M. F., Nikolaou, K.
2009; 19 (9): 2147-2155
- **C-arm CT-guided 3D navigation of percutaneous interventions** *RADIOLOGE*
Becker, H., Meissner, O., Wagnershauser, T.
2009; 49 (9): 852-855
- **Dual-Energy CT in Patients Suspected of Having Renal Masses: Can Virtual Nonenhanced Images Replace True Nonenhanced Images?** *RADIOLOGY*
Graser, A., Johnson, T. R., Hecht, E. M., Becker, C. R., Leidecker, C., Staehler, M., Stief, C. G., Hildebrandt, H., Godoy, M. C., Finn, M. E., Stepansky, F., Reiser, M. F., Macari, et al
2009; 252 (2): 433-440
- **Whole-body MRI at 1.5 T and 3 T compared with FDG-PET-CT for the detection of tumour recurrence in patients with colorectal cancer** *EUROPEAN RADIOLOGY*
Schmidt, G. P., Baur-Melnyk, A., Haug, A., Utschneider, S., Becker, C. R., Tiling, R., Reiser, M. F., Hermann, K. A.
2009; 19 (6): 1366-1378
- **Cervical and Cranial Computed Tomographic Angiography With Automated Bone Removal Dual Energy Computed Tomography Versus Standard Computed Tomography** *INVESTIGATIVE RADIOLOGY*
Morhard, D., Fink, C., Graser, A., Reiser, M. F., Becker, C., Johnson, T. R.
2009; 44 (5): 293-297
- **Pericardial Adipose Tissue Determined by Dual Source CT Is a Risk Factor for Coronary Atherosclerosis** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Greif, M., Becker, A., von Ziegler, F., Leberherz, C., Lehrke, M., Broedl, U. C., Tittus, J., Parhofer, K., Becker, C., Reiser, M., Knez, A., Leber, A. W.
2009; 29 (5): 781-U369
- **The Value of Dual-Energy Bone Removal in Maximum Intensity Projections of Lower Extremity Computed Tomography Angiography** *INVESTIGATIVE RADIOLOGY*
Sommer, W. H., Johnson, T. R., Becker, C. R., Arnoldi, E., Kramer, H., Reiser, M. F., Nikolaou, K.
2009; 44 (5): 285-292
- **Low Adiponectin Levels Are an Independent Predictor of Mixed and Non-Calcified Coronary Atherosclerotic Plaques** *PLOS ONE*
Broedl, U. C., Leberherz, C., Lehrke, M., Stark, R., Greif, M., Becker, A., von Ziegler, F., Tittus, J., Reiser, M., Becker, C., Goeke, B., Parhofer, K. G., Leber, et al
2009; 4 (3)
- **Images in cardiovascular medicine: unilateral pulmonary artery agenesis: noninvasive diagnosis with dual-source computed tomography.** *Circulation*
Johnson, T. R., Thieme, S. F., Deutsch, M., Hinterseer, M., Reiser, M. F., Becker, C. R., Nikolaou, K.
2009; 119 (8): 1158-1160
- **Noninvasive Coronary Angiography Using Dual-Source Computed Tomography in Patients With Atrial Fibrillation** *INVESTIGATIVE RADIOLOGY*
Rist, C., Johnson, T. R., Mueller-Starck, J., Arnoldi, E., Saam, T., Becker, A., Leber, A. W., Wintersperger, B. J., Becker, C. R., Reiser, M. F., Nikolaou, K.
2009; 44 (3): 159-167

- **Detection of osseous metastases of the spine: Comparison of high resolution multi-detector-CT with MRI** *EUROPEAN JOURNAL OF RADIOLOGY*
Buhmann (Kirchhoff), S., Becker, C., Duerr, H. R., Reiser, M., Baur-Melnyk, A.
2009; 69 (3): 567-573
- **Comparison of CT colonography, colonoscopy, sigmoidoscopy and faecal occult blood tests for the detection of advanced adenoma in an average risk population** *GUT*
Graser, A., Stieber, P., Nagel, D., Schaefer, C., Horst, D., Becker, C. R., Nikolaou, K., Lottes, A., Geisbuesch, S., Kramer, H., Wagner, A. C., Diepolder, H., Schirra, et al
2009; 58 (2): 241-248
- **Detection of significant coronary artery stenosis with 64-slice computed tomography in heart transplant recipients: a comparative study with conventional coronary angiography** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
von Ziegler, F., Leber, A. W., Becker, A., Kaczmarek, I., Schoenermarck, U., Raps, C., Tittus, J., Ueberfuhr, P., Becker, C. R., Reiser, M., Steinbeck, G., Knez, A.
2009; 25 (1): 91-100
- **Dual energy CT for the assessment of lung perfusion--correlation to scintigraphy.** *European journal of radiology*
Thieme, S. F., Becker, C. R., Hacker, M., Nikolaou, K., Reiser, M. F., Johnson, T. R.
2008; 68 (3): 369-374
- **Automated classification of normal and pathologic pulmonary tissue by topological texture features extracted from multi-detector CT in 3D** *EUROPEAN RADIOLOGY*
Boehm, H. F., Fink, C., Attenberger, U., Becker, C., Behr, J., Reiser, M.
2008; 18 (12): 2745-2755
- **Is post-mortem CT of the dentition adequate for correct forensic identification?: comparison of dental computed tomography and visual dental record** *INTERNATIONAL JOURNAL OF LEGAL MEDICINE*
Kirchhoff, S., Fischer, F., LINDEMAIER, G., Herzog, P., Kirchhoff, C., Becker, C., Bark, J., Reiser, M. F., Eisenmenger, W.
2008; 122 (6): 471-479
- **Predictive value of coronary calcifications for future cardiac events in asymptomatic patients with diabetes mellitus: A prospective study in 716 patients over 8 years** *BMC CARDIOVASCULAR DISORDERS*
Becker, A., Leber, A. W., Becker, C., von Ziegler, F., Tittus, J., Schroeder, I., Steinbeck, G., Knez, A.
2008; 8
- **Cranial CT with 64-, 16-, 4- and single-slice CT systems-comparison of image quality and posterior fossa artifacts in routine brain imaging with standard protocols** *EUROPEAN RADIOLOGY*
Ertl-Wagner, B., Eftimov, L., Blume, J., Bruening, R., Becker, C., Cormack, J., Brueckmann, H., Reiser, M.
2008; 18 (8): 1720-1726
- **Value of automatic bone subtraction in cranial CT angiography: comparison of bone-subtracted vs. standard CT angiography in 100 patients** *EUROPEAN RADIOLOGY*
Morhard, D., Fink, C., Becker, C., Reiser, M. F., Nikolaou, K.
2008; 18 (5): 974-982
- **Characteristics of coronary plaques before angiographic progression determined by Multi-Slice CT** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Leber, A. W., von Ziegler, F., Becker, A., Becker, C. R., Reiser, M., Steinbeck, G., Knez, A., Boekstegers, P.
2008; 24 (4): 423-428
- **Dual-source CT for chest pain assessment** *EUROPEAN RADIOLOGY*
Johnson, T. R., Nikolaou, K., Becker, A., Leber, A. W., Rist, C., Wintersperger, B. J., Reiser, M. F., Becker, C. R.
2008; 18 (4): 773-780
- **Whole-body MRI versus whole-body MDCT for staging of multiple myeloma** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Baur-Melnyk, A., Buhmann, S., Becker, C., Schoenberg, S. O., Lang, N., Bartl, R., Reiser, M. F.
2008; 190 (4): 1097-1104
- **Quantitative assessment of left ventricular function with dual-source CT in comparison to cardiac magnetic resonance imaging: initial findings** *EUROPEAN RADIOLOGY*

- Busch, S., Johnson, T. R., Wintersperger, B. J., Minaifar, N., Bhargava, A., Rist, C., Reiser, M. F., Becker, C., Nikolaou, K.
2008; 18 (3): 570-575
- **Dual energy CT characterization of urinary calculi: Initial in vitro and clinical experience** *INVESTIGATIVE RADIOLOGY*
Graser, A., Johnson, T. R., Bader, M., Staehler, M., Haseke, N., Nikolaou, K., Reiser, M. F., Stief, C. G., Becker, C. R.
2008; 43 (2): 112-119
 - **Restaging of patients with lymphoma - Comparison of low dose CT (20 mAs) with contrast enhanced diagnostic CT in combined [F-18]-FDG PET/CT** *NUKLEARMEDIZIN-NUCLEAR MEDICINE*
la Fougere, C., Pfluger, T., SCHNEIDER, V., Hacker, M., Broeckel, N., Morhard, D., Hundt, W., Bartenstein, P., Becker, C., Tiling, R.
2008; 47 (1): 37-42
 - **Predictive value of coronary calcifications for future cardiac events in asymptomatic individuals** *AMERICAN HEART JOURNAL*
Becker, A., Leber, A., Becker, C., Knez, A.
2008; 155 (1): 154-160
 - **Optimization of cardiac MSCT contrast injection protocols: Dependency of the main bolus contrast density on test bolus parameters and patients' body weight** *ACADEMIC RADIOLOGY*
Rist, C., Becker, C. R., Kirchin, M. A., Johnson, T. R., Busch, S., Bae, K. T., Leber, A. W., Reiser, M. F., Nikolaou, K.
2008; 15 (1): 49-57
 - **Strategies for prevention and operative treatment of aortic lesions related to spinal interventions** *SPINE*
Kopp, R., Beisse, R., Weidenhagen, R., Piltz, S., Hauck, S., Becker, C. R., Pieske, O., Buehren, V., Jauch, K. W., Lauterjung, L.
2007; 32 (25): E753-E760
 - **New applications for noninvasive cardiac imaging: dual-source computed tomography.** *European radiology*
Rist, C., Johnson, T. R., Becker, C. R., Reiser, M. F., Nikolaou, K.
2007; 17: F16-25
 - **Contrast enhanced ultrasound and dual source CT of left atrial myxoma** *ULTRASCHALL IN DER MEDIZIN*
Clevvert, D., Schweyer, M., Johnson, T., Busch, S., Eifert, S., Vicol, C., Becker, C., Reiser, M.
2007; 28 (6): 622-625
 - **Diagnostic accuracy of dual-source computed tomography in the diagnosis of coronary artery disease** *INVESTIGATIVE RADIOLOGY*
Johnson, T. R., Nikolaou, K., Busch, S., Leber, A. W., Becker, A., Wintersperger, B. J., Rist, C., Knez, A., Reiser, M. F., Becker, C. R.
2007; 42 (10): 684-691
 - **Diagnostic accuracy of dual-source multi-slice CT-coronary angiography in patients with an intermediate pretest likelihood for coronary artery disease** *EUROPEAN HEART JOURNAL*
Leber, A. W., Johnson, T., Becker, A., von Ziegler, F., Tittus, J., Nikolaou, K., Reiser, M., Steinbeck, G., Becker, C. R., Knez, A.
2007; 28 (19): 2354-2360
 - **Computer-aided detection in CT colonography: initial clinical experience using a prototype system** *EUROPEAN RADIOLOGY*
Graser, A., Kolligs, F. T., Mang, T., Schaefer, C., Geisbuesch, S., Reiser, M. F., Becker, C. R.
2007; 17 (10): 2608-2615
 - **Combined functional and morphological imaging consisting of gated myocardial perfusion SPELT and 16-detector multislice spiral CT angiography in the noninvasive evaluation of coronary artery disease: first experiences** *CLINICAL IMAGING*
Hacker, M., Jakobs, T., Matthiesen, F., Nikolaou, K., Becker, C., Knez, A., Tiling, R.
2007; 31 (5): 313-320
 - **Color Doppler, power Doppler and B-flow ultrasound in the assessment of ICA stenosis: Comparison with 64-MD-CT angiography** *EUROPEAN RADIOLOGY*
Clevvert, D., Johnson, T., Jung, E. M., Clevvert, D., Flach, P. M., Strautz, T. I., Ritter, G., Gallegos, M. T., Kubale, R., Becker, C., Reiser, M.
2007; 17 (8): 2149-2159
 - **Clinical image: Dual-energy computed tomographic molecular imaging of gout** *ARTHRITIS AND RHEUMATISM*
Johnson, T. R., Weckbach, S., Kellner, H., Reiser, M. F., Becker, C. R.
2007; 56 (8): 2809-2809

- **F-18-fluoro-2-deoxyglucose positron emission tomography/computed tomography in the follow-up of breast cancer with elevated levels of tumor markers** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Haug, A. R., Schmidt, G. P., Klingenstein, A., Heinemann, V., Stieber, P., Priebe, M., La Fougere, C., Becker, C., Hahn, K., Tiling, R.
2007; 31 (4): 629-634
- **Atypical incarcerated abdominal wall hernia mimicking acute diverticulitis** *EUROPEAN JOURNAL OF MEDICAL RESEARCH*
Buhmann, S., Wallnoefer, A., Kirchhoff, C., Deglmann, C., Jauch, K., Reiser, M. F., Becker, C., Mussack, T., Hoffmann, J.
2007; 12 (6): 273-276
- **Multislice computed tomography for determination of coronary artery disease in a symptomatic patient population** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Becker, A., Leber, A., White, C. W., Becker, C., Reiser, M. F., Knez, A.
2007; 23 (3): 361-367
- **Material differentiation by dual energy CT: initial experience** *EUROPEAN RADIOLOGY*
Johnson, T. R., Krauss, B., Sedlmair, M., Grasruck, M., Bruder, H., Morhard, D., Fink, C., Weckbach, S., Lenhard, M., Schmidt, B., Flohr, T., Reiser, M. F., Becker, et al
2007; 17 (6): 1510-1517
- **Visual and automatic grading of coronary artery stenoses with 64-slice CT angiography in reference to invasive angiography** *EUROPEAN RADIOLOGY*
Busch, S., Johnson, T. R., Nikolaou, K., von Ziegler, F., Knez, A., Reiser, M. F., Becker, C. R.
2007; 17 (6): 1445-1451
- **Clinical evaluation of a computer-aided diagnosis (CAD) prototype for the detection of pulmonary embolism** *ACADEMIC RADIOLOGY*
Buhmann, S., Herzog, P., Liang, J., Wolf, M., Salganicoff, M., Kirchhoff, C., Reiser, M., Becker, C. H.
2007; 14 (6): 651-658
- **Screening for bone metastases: whole-body MRI using a 32-channel system versus dual-modality PET-CT** *EUROPEAN RADIOLOGY*
Schmidt, G. P., Schoenberg, S. O., Schmid, R., Stahl, R., Tiling, R., Becker, C. R., Reiser, M. F., Baur-Melnyk, A.
2007; 17 (4): 939-949
- **Optimization of contrast material administration for electrocardiogram-gated computed tomographic angiography of the chest** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Johnson, T. R., Nikolaou, K., Wintersperger, B. J., Fink, C., Rist, C., Leber, A. W., Knez, A., Reiser, M. F., Becker, C. R.
2007; 31 (2): 265-271
- **Comparison of progression of coronary calcium in postmenopausal women on versus not on estrogen/progestin therapy** *AMERICAN JOURNAL OF RADIOLOGY*
Becker, A., Leber, A., von Ziegler, F., Becker, C., Knez, A.
2007; 99 (3): 374-378
- **Value of C-11-choline PET and PET/CT in patients with suspected prostate cancer** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*
Scher, B., Seitz, M., Albinger, W., Tiling, R., Scherr, M., Becker, H., Souvatzoglou, M., Gildehaus, F., Wester, H., Dresel, S.
2007; 34 (1): 45-53
- **ECG-gated 64-MDCT angiography in the differential diagnosis of acute chest pain** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Johnson, T. R., Nikolaou, K., Wintersperger, B. J., Knez, A., Boekstegers, P., Reiser, M. F., Becker, C. R.
2007; 188 (1): 76-82
- **Sixty-four slice spiral CT angiography does not predict the functional relevance of coronary artery stenoses in patients with stable angina** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*
Hacker, M., Jakobs, T., Hack, N., Nikolaou, K., Becker, C., von Ziegler, F., Knez, A., Koenig, A., Klauss, V., Reiser, M., Hahn, K., Tiling, R.
2007; 34 (1): 4-10
- **Assessment of coronary artery stent patency and restenosis using 64-slice computed tomography** *ACADEMIC RADIOLOGY*
Rist, C., von Ziegler, F., Nikolaou, K., Kirchin, M. A., Wintersperger, B. J., Johnson, T. R., Knez, A., Leber, A. W., Reiser, M. F., Becker, C. R.
2006; 13 (12): 1465-1473
- **Cardiac CT: a one-stop-shop procedure?** *European radiology*

- Becker, C. R.
2006; 16: M65-70
- **Contrast-induced nephropathy (CIN) consensus working panel: Executive summary** *REVIEWS IN CARDIOVASCULAR MEDICINE*
McCullough, P. A., Stacul, F., Becker, C. R., Adam, A., Lameire, N., Tumlin, J. A., Davidson, C. J.
2006; 7 (4): 177-197
 - **High-risk situations and procedures** *AMERICAN JOURNAL OF CARDIOLOGY*
Becker, C. R., Davidson, C., Lameire, N., McCullough, P. A., Stacul, F., Tumlin, J., Adam, A.
2006; 98 (6A): 37K-41K
 - **Epidemiology and prognostic implications of contrast-induced nephropathy** *AMERICAN JOURNAL OF CARDIOLOGY*
McCullough, P. A., Adam, A., Becker, C. R., Davidson, C., Lameire, N., Stacul, F., Tumlin, J.
2006; 98 (6A): 5K-13K
 - **Pathophysiology of contrast-induced nephropathy** *AMERICAN JOURNAL OF CARDIOLOGY*
Tumlin, J., Stacul, F., Adam, A., Becker, C. R., Davidson, C., Lameire, N., McCullough, P. A.
2006; 98 (6A): 14K-20K
 - **Contrast medium use** *AMERICAN JOURNAL OF CARDIOLOGY*
Davidson, C., Stacul, F., McCullough, P. A., Tumlin, J., Adam, A., Lameire, N., Becker, C. R.
2006; 98 (6A): 42K-58K
 - **Risk prediction of contrast-induced nephropathy** *AMERICAN JOURNAL OF CARDIOLOGY*
McCullough, P. A., Adam, A., Becker, C. R., Davidson, C., Lameire, N., Stacul, F., Tumlin, J.
2006; 98 (6A): 27K-36K
 - **Strategies to reduce the risk of contrast-induced nephropathy** *AMERICAN JOURNAL OF CARDIOLOGY*
Stacul, F., Adam, A., Becker, C. R., Davidson, C., Lameire, N., McCullough, P. A., Tumlin, J.
2006; 98 (6A): 59K-77K
 - **Baseline renal function screening** *AMERICAN JOURNAL OF CARDIOLOGY*
Lameire, N., Adam, A., Becker, C. R., Davidson, C., McCullough, P. A., Stacul, F., Tumlin, J.
2006; 98 (6A): 21K-26K
 - **Ultra-high-resolution mode for the assessment of coronary artery stents - Ex vivo imaging with 64-slice computed tomography** *ACADEMIC RADIOLOGY*
Rist, C., Nikolaou, K., Flohr, T., Wintersperger, B. J., Johnson, T. R., Reiser, M. F., Becker, C. R.
2006; 13 (9): 1165-1167
 - **Dose reduction and image quality in MDCT colonography using tube current modulation** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Graser, A., Wintersperger, B. J., Suess, C., Reiser, M. F., Becker, C. R.
2006; 187 (3): 695-701
 - **High-resolution ex vivo imaging of coronary artery stents using 64-slice computed tomography - initial experience** *EUROPEAN RADIOLOGY*
Rist, C., Nikolaou, K., Flohr, T., Wintersperger, B. J., Reiser, M. F., Becker, C. R.
2006; 16 (7): 1564-1569
 - **Dual-source CT cardiac imaging: initial experience** *EUROPEAN RADIOLOGY*
Johnson, T. R., Nikolaou, K., Wintersperger, B. J., Leber, A. W., von Ziegler, F., Rist, C., Buhmann, S., Knez, A., Reiser, M. F., Becker, C. R.
2006; 16 (7): 1409-1415
 - **Accuracy of 64-MDCT in the diagnosis of ischemic heart disease** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Nikolaou, K., Knez, A., Rist, C., Wintersperger, B. J., Leber, A., Johnson, T., Reiser, M. F., Becker, C. R.
2006; 187 (1): 111-117
 - **Clinical value of MDCT in the diagnosis of coronary artery disease in patients with a low pretest likelihood of significant disease** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Nikolaou, K., Rist, C., Wintersperger, B. J., Jakobs, T. F., van Gessel, R., Kirchin, M. A., Knez, A., von Ziegler, F., Reiser, M. F., Becker, C. R.
2006; 186 (6): 1659-1668

- **Contrast bolus optimization for cardiac 16-slice computed tomography - Comparison of contrast medium formulations containing 300 and 400 milligrams of iodine per milliliter** *INVESTIGATIVE RADIOLOGY*
Rist, C., Nikolaou, K., Kirchin, M. A., van Gessel, R., Bae, K. T., von Ziegler, F., Knez, A., Wintersperger, B. J., Reiser, M. F., Becker, C. R.
2006; 41 (5): 460-467
- **Accuracy of 64-slice computed tomography to classify and quantify plaque volumes in the proximal coronary system - A comparative study using intravascular ultrasound** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Leber, A. W., Becker, A., Knez, A., von Ziegler, F., Sirol, M., Nikolaou, K., Ohnesorge, B., Fayad, Z. A., Becker, C. R., Reiser, M., Steinbeck, G., Boekstegers, P.
2006; 47 (3): 672-677
- **First performance evaluation of a dual-source CT (DSCT) system** *EUROPEAN RADIOLOGY*
Flohr, T. G., McCollough, C. H., Bruder, H., Petersilka, M., Gruber, K., Suss, C., Grasruck, M., Stierstorfer, K., Krauss, B., Raupach, R., Primak, A. N., Kuttner, A., Achenbach, et al
2006; 16 (2): 256-268
- **Use of iso-osmolar nonionic dimeric contrast media in multidetector row computed tomography angiography for patients with renal impairment** *INVESTIGATIVE RADIOLOGY*
Becker, C. R., Reiser, M. F.
2005; 40 (10): 672-675
- **Comparison of spiral multidetector CT angiography and myocardial perfusion imaging in the noninvasive detection of functionally relevant coronary artery lesions: First clinical experiences** *JOURNAL OF NUCLEAR MEDICINE*
Hacker, M., Jakobs, T., Matthiesen, F., Vollmar, C., Nikolaou, K., Becker, C., Knez, A., Pfluger, T., Reiser, M., Hahn, K., Tiling, R.
2005; 46 (8): 1294-1300
- **Images in cardiovascular medicine. Detection of cardiac metastasis by positron-emission tomography-computed tomography.** *Circulation*
Johnson, T. R., Becker, C. R., Wintersperger, B. J., Herzog, P., Lenhard, M. S., Reiser, M. F.
2005; 112 (4): e61-2
- **Quantification of obstructive and nonobstructive coronary lesions by 64-slice computed tomography - A comparative study with quantitative coronary angiography and intravascular ultrasound** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Leber, A. W., Knez, A., von Ziegler, F., Becker, A., Nikolaou, K., Paul, S., Wintersperger, B., Reiser, M., Becker, C. R., Steinbeck, G., Boekstegers, P.
2005; 46 (1): 147-154
- **On the way to isotopic spatial resolution: technical principles and applications of 16-slice CT** *RADIOLOGY*
Flohr, T., Ohnesorge, B., Stierstorfer, K., Bruder, H., Simon, J., Suss, C., Wildberger, J., Baum, U., Lell, M., Kuttner, A., Heuschmid, M., Wintersperger, B., Becker, et al
2005; 45 (7): 608-617
- **Assessment of myocardial perfusion and viability from routine contrast-enhanced 16-detector-row computed tomography of the heart: preliminary results** *EUROPEAN RADIOLOGY*
Nikolaou, K., Sanz, J., Poon, M., Wintersperger, B. J., Ohnesorge, B., Rius, T., Fayad, Z. A., Reiser, M. F., Becker, C. R.
2005; 15 (5): 864-871
- **Assessment of global left ventricular function - Comparison of cardiac multidetector-row computed tomography with angiocardiology** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Hundt, W., Siebert, K., Wintersperger, B. J., Becker, C. R., Knez, A., Reiser, M. F., Rubin, G. D.
2005; 29 (3): 373-381
- **Estimation of cardiac event risk by MDCT** *EUROPEAN RADIOLOGY*
Becker, C. R.
2005; 15: B17-B22
- **Coronary CT angiography in symptomatic patients** *EUROPEAN RADIOLOGY*
Becker, C. R.
2005; 15: B33-B41
- **Aorto-iliac multidetector-row CT angiography with low kV settings: improved vessel enhancement and simultaneous reduction of radiation dose** *EUROPEAN RADIOLOGY*
Wintersperger, B., Jacobs, T., Herzog, P., Schaller, S., Nikolaou, K., Suess, C., Weber, C., Reiser, M., Becker, C.

2005; 15 (2): 334-341

- **Visualising noncalcified coronary plaques by CT** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Leber, A. W., Knez, A., Becker, A., Becker, C., Reiser, M., Steinbeck, G., Boekstegers, P.
2005; 21 (1): 55-61
- **Flat panel computed tomography of human ex vivo heart and bone specimens: initial experience** *EUROPEAN RADIOLOGY*
Nikolaou, K., Flohr, T., Stierstorfer, K., Becker, C. R., Reiser, M. F.
2005; 15 (2): 329-333
- **CT measurement of coronary calcium mass: impact on global cardiac risk assessment** *EUROPEAN RADIOLOGY*
Becker, C. R., Majeed, A., Crispin, A., Knez, A., Schoepf, U. J., Boekstegers, P., Steinbeck, G., Reiser, M. F.
2005; 15 (1): 96-101
- **Advances in cardiac CT imaging: 64-slice scanner** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Nikolaou, K., Flohr, T., Knez, A., Rist, C., Wintersperger, B., Johnson, T., Reiser, M. F., Becker, C. R.
2004; 20 (6): 535-540
- **Value of electron beam tomography (EBT) - II. Non-cardiac applications and radiation exposure** *ROFO-FORTSCHRITTE AUF DEM GEBIET DER RONTGENSTRAHLEN UND DER BILDGEBENDEN VERFAHREN*
Enzweiler, C. N., Becker, C. R., Bruning, R., Felix, R., Georgi, M., Knollmann, F. D., Lehmann, K. J., Lembcke, A., Reiser, M. F., Rogalla, P., Schoepf, U. J., Taupitz, M., Weisser, et al
2004; 176 (11): 1566-1575
- **Noninvasive assessment of coronary atherosclerosis by multidetector-row computed tomography.** *Expert review of cardiovascular therapy*
Becker, C. R.
2004; 2 (5): 721-727
- **Optimization of ex vivo CT- and MR-imaging of atherosclerotic vessel wall changes** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Nikolaou, K., Becker, C. R., Flohr, T., Huber, A., Scheidler, J., Fayad, Z. A., Reiser, M. F.
2004; 20 (4): 327-334
- **CT of coronary artery disease** *RADIOLOGY*
Schoepf, U. J., Becker, C. R., Ohnesorge, B. M., Yucel, E. K.
2004; 232 (1): 18-37
- **Multidetector-row computed tomography and magnetic resonance imaging of atherosclerotic lesions in human ex vivo coronary arteries** *ATHEROSCLEROSIS*
Nikolaou, K., Becker, C. R., Muders, M., Babaryka, G., Scheidler, J., Flohr, T., Loehrs, U., Reiser, M. F., Fayad, Z. A.
2004; 174 (2): 243-252
- **Past, present, and future perspective of cardiac computed tomography** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Becker, C. R., Knez, A.
2004; 19 (6): 676-685
- **Relation of coronary calcium scores by electron beam tomography to obstructive disease in 2,115-symptomatic patients** *AMERICAN JOURNAL OF CARDIOLOGY*
Knez, A., Becker, A., Leber, A., White, C., Becker, C. R., Reiser, M. F., Steinbeck, G., Boekstegers, P.
2004; 93 (9): 1150-1152
- **Accuracy of multidetector spiral computed tomography in identifying and differentiating the composition of coronary atherosclerotic plaques - A comparative study with intracoronary ultrasound** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Leber, A. W., Knez, A., Becker, A., Becker, C., von Ziegler, F., Nikolaou, K., Rist, C., Reiser, M., White, C., Steinbeck, G., Boekstegers, P.
2004; 43 (7): 1241-1247
- **MDCT-imaging of peripheral arterial disease** *SEMINARS IN ULTRASOUND CT AND MRI*
Jakobs, T. F., Wintersperger, B. J., Becker, C. R.
2004; 25 (2): 145-155
- **Assessment of myocardial infarctions using multidetector-row computed tomography** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*

- Nikolaou, K., Knez, A., Sagmeister, S., Wintersperger, B. J., Boekstegers, P., Steinbeck, G., Reiser, M. F., Becker, C. R.
2004; 28 (2): 286-292
- **Multidetector-row CT angiography of the aorta and visceral arteries** *SEMINARS IN ULTRASOUND CT AND MRI*
Wintersperger, B. J., Nikolaou, K., Becker, C. R.
2004; 25 (1): 25-40
 - **Indications for multislice CT angiography of coronary arteries** *RADIOLOGE*
Rist, C., Nikolaou, K., Wintersperger, B. J., Bastarrika, G., Reiser, M. F., Becker, C. R.
2004; 44 (2): 121-?
 - **[ECG-gated bypass CT angiography--application in imaging arterial bypasses].** *Der Radiologe*
Wintersperger, B. J., Bastarrika, G., Nikolaou, K., Rist, C., Huber, A., Knez, A., Reiser, M. F., Becker, C. R., Vicol, C.
2004; 44 (2): 140-145
 - **Diagnostic value of electron-beam computed tomography (EBT). I. Cardiac applications** *ROFO-FORTSCHRITTE AUF DEM GEBIET DER RONTGENSTRAHLEN UND DER BILDGEBENDEN VERFAHREN*
Enzweiler, C. N., Becker, C. R., Felix, R., Georgi, M., Knollmann, F. D., Lehmann, K. J., Lembcke, A., Reiser, M. F., Rogalla, P., Taupitz, M., Weisser, G., Wiese, T. H., Hamm, et al
2004; 176 (1): 27-36
 - **[Multislice CT of the heart: clinical applications].** *Anales del sistema sanitario de Navarra*
Bastarrika, G., Cano, D., Becker, C. R., Wintersperger, B. J., Reiser, M. F.
2004; 27 (1): 63-72
 - **Advances in cardiac imaging** *EUROPEAN RADIOLOGY*
Becker, C. R.
2003; 13: N50-N52
 - **Multidetector-row computed tomography of the coronary arteries: predictive value and quantitative assessment of non-calcified vessel-wall changes** *EUROPEAN RADIOLOGY*
Nikolaou, K., Sagmeister, S., Knez, A., Klotz, E., Wintersperger, B. J., Becker, C. R., Reiser, M. F.
2003; 13 (11): 2505-2512
 - **Optimal contrast application for cardiac 4-detector-row computed tomography** *INVESTIGATIVE RADIOLOGY*
Becker, C. R., Hong, C., Knez, A., Leber, A., Bruening, R., Schoepf, U. J., Reiser, M. F.
2003; 38 (11): 690-694
 - **Complementary results of computed tomography and magnetic resonance imaging of the heart and coronary arteries: a review and future outlook.** *Cardiology clinics*
Nikolaou, K., Poon, M., Sirol, M., Becker, C. R., Fayad, Z. A.
2003; 21 (4): 639-655
 - **From vulnerable plaque to vulnerable patient - A call for new definitions and risk assessment strategies: Part II** *CIRCULATION*
Naghavi, M., Libby, P., Falk, E., Casscells, S. W., Litovsky, S., Rumberger, J., Badimon, J. J., Stefanadis, C., Moreno, P., Pasterkamp, G., Fayad, Z., Stone, P. H., Waxman, et al
2003; 108 (15): 1772-1778
 - **From vulnerable plaque to vulnerable patient - A call for new definitions and risk assessment strategies: Part I** *CIRCULATION*
Naghavi, M., Libby, P., Falk, E., Casscells, S. W., Litovsky, S., Rumberger, J., Badimon, J. J., Stefanadis, C., Moreno, P., Pasterkamp, G., Fayad, Z., Stone, P. H., Waxman, et al
2003; 108 (14): 1664-1672
 - **Ex vivo coronary atherosclerotic plaque characterization with multi-detector-row CT** *EUROPEAN RADIOLOGY*
Becker, C. R., Nikolaou, K., Muders, M., Babaryka, G., Crispin, A., Schoepf, U. J., Loehrs, U., Reiser, M. F.
2003; 13 (9): 2094-2098
 - **Rare cause of a chest pain** *DEUTSCHE MEDIZINISCHE WOCHENSCHRIFT*
Ding, I., Bittmann, I., Becker, C., Behr, J.
2003; 128 (33): 1703-1705

- **Multi-detector-row CT angiography of peripheral arteries** *SEMINARS IN ULTRASOUND CT AND MRI*
Becker, C. R., Wintersperger, B., Jakobs, T. F.
2003; 24 (4): 268-279
- **Ultra-low-dose coronary artery calcium screening using multislice CT with retrospective ECG gating** *EUROPEAN RADIOLOGY*
Jakobs, T. F., Wintersperger, B. J., Herzog, P., Flohr, T., Suess, C., Knez, A., Reiser, M. F., Becker, C. R.
2003; 13 (8): 1923-1930
- **Multislice CT angiography** *EUROPEAN RADIOLOGY*
Schoepf, U. J., Becker, C. R., Hofmann, L. K., Das, M., Flohr, T., Ohnesorge, B. M., Baumert, B., Rolnick, J., Allen, J. M., Raptopoulos, V.
2003; 13 (8): 1946-1961
- **Non-invasive intravenous coronary angiography using electron beam tomography and multislice computed tomography** *HEART*
Leber, A. W., Knez, A., Becker, C., Becker, A., White, C., Thilo, C., Reiser, M., Haberl, R., Steinbeck, G.
2003; 89 (6): 633-639
- **Multidetector-row CT of the heart** *RADIOLOGIC CLINICS OF NORTH AMERICA*
Schoepf, U. J., Becker, C. R., Hofmann, L. K., Yucel, E. K.
2003; 41 (3): 491-?
- **Multidetector-row CT of the heart** *SEMINARS IN ROENTGENOLOGY*
Hofmann, L. K., Becker, C. R., Flohr, T., Schoepf, U. J.
2003; 38 (2): 135-145
- **Composition of coronary atherosclerotic plaques in patients with acute myocardial infarction and stable angina pectoris determined by contrast-enhanced multislice computed tomography** *AMERICAN JOURNAL OF CARDIOLOGY*
Leber, A. W., Knez, A., White, C. W., Becker, A., von Ziegler, F., Muehling, O., Becker, C., Reiser, M., Steinbeck, G., Boekstegers, P.
2003; 91 (6): 714-718
- **Combined approach of contrast and non contrast CT for the assessment of coronary atherosclerosis** *HERZ*
Becker, C. R.
2003; 28 (1): 32-35
- **Cardiac multidetector-row computed tomography: initial experience using 16 detector-row systems.** *Critical reviews in computed tomography*
Wintersperger, B. J., Nikolaou, K., Jakobs, T. F., Reiser, M. F., Becker, C. R.
2003; 44 (1): 27-45
- **Multidetector computed tomography (MDCT) in coronary surgery: First experiences with a new tool for diagnosis of coronary artery disease** *ANNALS OF THORACIC SURGERY*
Treede, H., Becker, C., Reichensperner, H., Knez, A., Detter, C., Reiser, M., Reichart, B.
2002; 74 (4): S1398-S1402
- **CT angiography of the coronary arteries with a 16-row spiral tomograph. Effect of spatial resolution on image quality** *RADIOLOGE*
Jakobs, T. F., Becker, C. R., Wintersperger, B. J., Herzog, P., Ohnesorge, B., Flohr, T., Knez, A., Reiser, M. F.
2002; 42 (9): 733-738
- **Detection of coronary artery stenoses with multislice helical CT angiography** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Becker, C. R., Knez, A., Leber, A., Treede, H., Ohnesorge, B., Schoepf, U. J., Reiser, M. F.
2002; 26 (5): 750-755
- **Initial experience with the clinical use of a 16 detector row CT system.** *Critical reviews in computed tomography*
Wintersperger, B. J., Herzog, P., Jakobs, T., Reiser, M. F., Becker, C. R.
2002; 43 (4): 283-316
- **Determination of coronary calcium with Multi-slice Spiral computed tomography: a comparative study with electron-beam CT** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Knez, A., Becker, C., Becker, A., Leber, A., White, C., Reiser, M., Steinbeck, G.
2002; 18 (4): 295-303
- **Intraindividual comparison of contrast-enhanced electron-beam computed tomography and navigator-echo-based magnetic resonance imaging for noninvasive coronary artery angiography** *EUROPEAN RADIOLOGY*

- Nikolaou, K., Huber, A., Knez, A., Becker, C., Bruening, R., Reiser, M.
2002; 12 (7): 1663-1671
- **Assessment of coronary arteries with CT** *RADIOLOGIC CLINICS OF NORTH AMERICA*
Becker, C. R.
2002; 40 (4): 773-?
 - **A retrospectively ECG-gated multislice spiral CT scan and reconstruction technique with suppression of heart pulsation artifacts for cardio-thoracic imaging with extended volume coverage** *EUROPEAN RADIOLOGY*
Flohr, T., Prokop, M., Becker, C., Schoepf, U. J., Kopp, A. F., White, R. D., Schaller, S., Ohnesorge, B.
2002; 12 (6): 1497-1503
 - **Reproducibility of coronary calcium quantification in repeat examinations with retrospectively ECG-gated multisection spiral CT** *EUROPEAN RADIOLOGY*
Ohnesorge, B., Flohr, T., Fischbach, R., Kopp, A. F., Knez, A., Schroder, S., Schopf, U. J., Crispin, A., Klotz, E., Reiser, M. F., Becker, C. R.
2002; 12 (6): 1532-1540
 - **Computed tomography-fluoroscopy guided drainage of pericardial effusions - Experience in 11 cases** *INVESTIGATIVE RADIOLOGY*
Bruning, R., Muehlstaedt, M., Becker, C., Knez, A., Haberl, R., Reiser, M.
2002; 37 (6): 328-332
 - **Multislice helical CT of the heart with retrospective ECG gating: reduction of radiation exposure by ECG-controlled tube current modulation** *EUROPEAN RADIOLOGY*
Jakobs, T. F., Becker, C. R., Ohnesorge, B., Flohr, T., Suess, C., Schoepf, U. J., Reiser, M. F.
2002; 12 (5): 1081-1086
 - **Coronary artery calcium: Absolute quantification in nonenhanced and contrast-enhanced multi-detector row CT studies** *RADIOLOGY*
Hong, C., Becker, C. R., Schoepf, U. J., Ohnesorge, B., Bruening, R., Reiser, M. F.
2002; 223 (2): 474-480
 - **The mineralization patterns at the subchondral bone plate of the glenoid cavity in healthy shoulders** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Schulz, C. U., Pfahler, M., Anetzberger, H. M., Becker, C. R., Muller-Gerbl, M., Refior, H. J.
2002; 11 (2): 174-181
 - **Subsegmental pulmonary emboli: Improved detection with thin-collimation multi-detector row spiral CT** *RADIOLOGY*
Schoepf, U. J., Holzknrecht, N., Helmburger, T. K., Crispin, A., Hong, C., Becker, C. R., Reiser, M. F.
2002; 222 (2): 483-490
 - **Usefulness of multislice spiral computed tomography angiography for determination of coronary artery stenoses** *AMERICAN JOURNAL OF RADIOLOGY*
Knez, A., Becker, C. R., Leber, A., Ohnesorge, B., Becker, A., White, C., Haberl, R., Reiser, M. F., Steinbeck, G.
2001; 88 (10): 1191-?
 - **ECG-gated reconstructed multi-detector row CT coronary angiography: Effect of varying trigger delay on image quality** *RADIOLOGY*
Hong, C., Becker, C. R., Huber, A., Schoepf, U. J., Ohnesorge, B., Knez, A., Bruening, R., Reiser, M. F.
2001; 220 (3): 712-717
 - **Usefulness of calcium scoring using electron beam computed tomography and noninvasive coronary angiography in patients with suspected coronary artery disease** *AMERICAN JOURNAL OF RADIOLOGY*
Leber, A. W., Knez, A., Mukherjee, R., White, C., Huber, A., Becker, A., Becker, C. R., Reiser, M., Haberl, R., Steinbeck, G.
2001; 88 (3): 219-223
 - **Multislice helical CT of focal and diffuse lung disease: Comprehensive diagnosis with reconstruction of contiguous and high-resolution CT sections from a single thin-collimation scan** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Schoepf, U. J., Bruening, R. D., Hong, C., Eibel, R., Aydemir, S., Crispin, A., Becker, C., Reiser, M. F.
2001; 177 (1): 179-184
 - **Methods for quantification of coronary artery calcifications with electron beam and conventional CT and pushing the spiral CT envelope: New cardiac applications** *INTERNATIONAL JOURNAL OF RADIOLOGY*
Becker, C. R., Schoepf, U. J., Reiser, M. F.

2001; 17 (3): 203-211

- **Coronary artery calcium measurement: Agreement of multirow detector and electron beam CP** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Becker, C. R., Kleffel, T., Crispin, A., Knez, A., Young, J., Schoepf, U. J., Haberl, R., Reiser, M. F.
2001; 176 (5): 1295-1298
- **Correlation of coronary calcification and angiographically documented stenoses in patients with suspected coronary artery disease: Results of 1,764 patients** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Haberl, R., Becker, A., Leber, A., Knez, A., Becker, C., Lang, C., Bruening, R., Reiser, M., Steinbeck, G.
2001; 37 (2): 451-457
- **Multi-slice computed tomography as a screening tool for colon cancer, lung cancer and coronary artery disease** *EUROPEAN RADIOLOGY*
Schoepf, U. J., Becker, C. R., Obuchowski, N. A., Rust, G. F., Ohnesorge, B. M., Kohl, G., Schaller, S., Modic, M. T., Rieser, M. F.
2001; 11 (10): 1975-1985
- **Multislice CT imaging of pulmonary embolism** *EUROPEAN RADIOLOGY*
Schoepf, U. J., Kessler, M. A., Rieger, C. T., Herzog, P., Klotz, E., Wiesgigl, S., Becker, C. R., Exarhos, D. N., Reiser, M. F.
2001; 11 (11): 2278-2286
- **Pulmonary embolism: Comprehensive diagnosis by using electron-beam CT for detection of emboli and assessment of pulmonary blood flow** *RADIOLOGY*
Schoepf, U. J., Bruening, R., Konschitzky, H., Becker, C. R., Knez, A., Weber, J., Muehling, O., Herzog, P., Huber, A., Haberl, R., Reiser, M. F.
2000; 217 (3): 693-700
- **Current development of cardiac imaging with multidetector-row CT** *EUROPEAN JOURNAL OF RADIOLOGY*
Becker, C. R., Ohnesorge, B. M., Schoepf, U. J., Reiser, M. F.
2000; 36 (2): 97-103
- **Cardiac imaging by means of electrocardiographically gated multisection spiral CT: Initial experience** *RADIOLOGY*
Ohnesorge, B., Flohr, T., Becker, C., Kopp, A. F., Schoepf, U. J., Baum, U., Knez, A., Klungenbeck-Regn, K., Reiser, M. F.
2000; 217 (2): 564-571
- **Imaging of noncalcified coronary plaques using helical CT with retrospective ECG gating** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Becker, C. R., Knez, A., Ohnesorge, B., Schoepf, U. J., Reiser, M. F.
2000; 175 (2): 423-424
- **Noninvasive detection of coronary artery stenosis by multislice helical computed tomography** *CIRCULATION*
Knez, A., Becker, C., Ohnesorge, B., Haberl, R., Reiser, M., Steinbeck, G.
2000; 101 (23): E221-E222
- **Three-dimensional reconstruction of a large venous bypass graft aneurysm supplying 2 coronary arteries.** *Circulation*
Wildhirt, S. M., Becker, C., Reichenspurner, H., Reichart, B.
2000; 101 (15): E165-7
- **[Initial experiences with multi-slice detector spiral CT in diagnosis of arteriosclerosis of coronary vessels].** *Der Radiologe*
Becker, C. R., Knez, A., Leber, A., Hong, C., Treede, H., Wildhirt, S., Ohnesorge, B., Flohr, T., Schoepf, U. J., Reiser, M. F.
2000; 40 (2): 118-122
- **Segmental and subsegmental pulmonary arteries: Evaluation with electron-beam versus spiral CT** *RADIOLOGY*
Schoepf, U. J., Helmberger, T., Holzknrecht, N., Kang, D. S., Bruening, R. D., Aydemir, S., Becker, C. R., Muehling, O., Knez, A., Haberl, R., Reiser, M. F.
2000; 214 (2): 433-439
- **[Cardiac imaging with rapid, retrospective ECG synchronized multilevel spiral CT].** *Der Radiologe*
Ohnesorge, B., Flohr, T., Becker, C., Knez, A., Kopp, A. F., Fukuda, K., Reiser, M. F.
2000; 40 (2): 111-117
- **Helical and single-slice conventional CT versus electron beam CT for the quantification of coronary artery calcification** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Becker, C. R., Jakobs, T. F., Aydemir, S., Becker, A., Knez, A., Schoepf, U. J., Bruening, R., Haberl, R., Reiser, M. F.

2000; 174 (2): 543-547

- **Tumors of the cardiac valves: imaging findings in magnetic resonance imaging, electron beam computed tomography, and echocardiography** *EUROPEAN RADIOLOGY*
Wintersperger, B. J., Becker, C. R., Gulbins, H., Knez, A., Bruening, R., Heuck, A., Reiser, M. F.
2000; 10 (3): 443-449
- **Visualization and quantification of coronary calcifications with electron beam and spiral computed tomography** *EUROPEAN RADIOLOGY*
Becker, C. R., Knez, A., Ohnesorge, B., Schoepf, U. J., Flohr, T., Bruening, R., Haberl, R., Reiser, M. F.
2000; 10 (4): 629-635
- **[The technical bases and uses of multi-slice CT].** *Der Radiologe*
Ohnesorge, B., Flohr, T., Schaller, S., Klingenberg-Regn, K., Becker, C., Schöpf, U. J., Brüning, R., Reiser, M. F.
1999; 39 (11): 923-931
- **Xenon versus ceramics: A comparison of two CT X-ray detector systems** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Becker, C. R., Bruening, R., Schaetzel, M., Schoepf, U. J., Reiser, M. F.
1999; 23 (5): 795-799
- **Electrocardiographically gated thin-section CT of the lung** *RADIOLOGY*
Schoepf, U. J., Becker, C. R., Bruening, R. D., Helmberger, T., Staebler, A., Leimeister, P., Reiser, M. F.
1999; 212 (3): 649-654
- **Detection and quantification of coronary artery calcification with electron-beam and conventional CT** *EUROPEAN RADIOLOGY*
Becker, C. R., Knez, A., Jakobs, T. F., Aydemir, S., Becker, A., Schoepf, U. J., Bruening, R., Haberl, R., Reiser, M. F.
1999; 9 (4): 620-624
- **[Significance of calcium detection with electron-beam tomography in coronary disease].** *Der Radiologe*
Haberl, R., Knez, A., Becker, A., Becker, C., Maass, A., Brüning, R., Reiser, M., Steinbeck, G.
1998; 38 (12): 999-1005
- **Virtual colonoscopy using CT and MR imaging** *RADIOLOGE*
Scheidler, J., Frank, C., Becker, C., Feist, H., Michalski, G., Schatzl, M., Bauml, A., Heuck, A. F., Reiser, M. F.
1998; 38 (10): 824-831
- **A comparison of digital luminescence mammography and conventional film - screen system: preliminary results of clinical evaluation.** *European journal of medical research*
Perlet, C., Becker, C., Sittek, H., Pistitsch, C., Jäger, L., Kessler, M., Reiser, M.
1998; 3 (3): 165-171
- **Preoperative 3D-reconstructions of ultrafast-CT images for the planning of minimally invasive direct coronary artery bypass operation (MIDCAB).** *heart surgery forum*
Gulbins, H., Reichensperner, H., Becker, C., Boehm, D. H., Knez, A., Schmitz, C., Bruening, R., Haberl, R., Reichart, B.
1998; 1 (2): 111-115
- **Comparison of MR pulse sequences in the detection of multiple sclerosis lesions** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Yousry, T. A., Filippi, M., Becker, C., Horsfield, M. A., Voltz, R.
1997; 18 (5): 959-963
- **The full-scale PACS archive** *ACTA RADIOLOGICA*
NISSENMEYER, S. A., Fink, U., PLEIER, M., Becker, C.
1996; 37 (6): 838-846

PRESENTATIONS

- Performance of High Pitch Mode With 3rd Generation Dual Source CT - International Society for Computed Tomography (June 7, 2015)
- Comparison Between CT and IVUS for the Detection of Myocardial Bridges - See more at: <http://www.isct.org/2015-program/comparison-between-ct-and-ivus-detection-myocardial-bridges#sthash.pOUCPSdZ.dpuf> - International Society for Computed Tomography (June 9, 2015)