




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 B2 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

- A Study of Brentuximab Vedotin Combined With Nivolumab for Relapsed or Refractory Hodgkin Lymphoma, Not Recruiting
- A Study of Duvelisib in Combination With Rituximab or Obinutuzumab in Subjects With Previously Untreated CD20+ Follicular Lymphoma (CONTEMPO), Not Recruiting
- A Study of Escalating Doses of DCDS0780A in Participants With Relapsed or Refractory B-Cell Non-Hodgkin's Lymphoma, Not Recruiting
- A Study of Niraparib in Patients With Ovarian Cancer Who Have Received Three or Four Previous Chemotherapy Regimens, Not Recruiting
- A Study of RO6958688 in Participants With Locally Advanced and/or Metastatic Carcinoembryonic Antigen Positive Solid Tumors, Not Recruiting
- A Study to Evaluate Safety, Tolerability, and Pharmacokinetics of Escalating Doses of AGS67E Given as Monotherapy in Subjects With Refractory or Relapsed Lymphoid Malignancies, Not Recruiting
- Acalabrutinib (ACP-196) Alone and in Combination With Pembrolizumab in Ovarian Cancer (KEYNOTE191), Not Recruiting

- Clinical Trial of Lurbinectedin (PM01183) in Platinum Resistant Ovarian Cancer Patients, Not Recruiting
- ECHELON-2: A Comparison of Brentuximab Vedotin and CHP With Standard-of-care CHOP in the Treatment of Patients With CD30-positive Mature T-cell Lymphomas, Not Recruiting
- Investigation of Tipifarnib in Treatment of Subjects With Peripheral T-Cell Lymphoma (PTCL) That Have Not Responded to Standard Therapy, Not Recruiting
- My Pathway: A Study Evaluating Herceptin/Perjeta, Tarceva, Zelboraf/Cotellic, Erivedge, Alecensa, and Tecentriq Treatment Targeted Against Certain Molecular Alterations in Participants With Advanced Solid Tumors, Not Recruiting
- Novel Combinations of CC-122, CC-223, CC-292, and Rituximab in Diffuse Large B-cell Lymphoma and Follicular Lymphoma, Not Recruiting
- Pembrolizumab in Treating Patients With Advanced Merkel Cell Cancer, Not Recruiting
- Study Evaluating the Safety and Efficacy of KTE-C19 in Adult Participants With Refractory Aggressive Non-Hodgkin Lymphoma, Not Recruiting
- Study of Brentuximab Vedotin Combined With Bendamustine in Patients With Hodgkin Lymphoma, Not Recruiting
- Study of IDO Inhibitor in Combination With Gemcitabine and Nab-Paclitaxel in Patients With Metastatic Pancreatic Cancer, Not Recruiting
- Study of Pembrolizumab (MK-3475) as Monotherapy in Participants With Previously-Treated Locally Advanced Unresectable or Metastatic Colorectal Cancer (MK-3475-164/KEYNOTE-164), Not Recruiting
- Study of Pembrolizumab (MK-3475) in Participants With Relapsed or Refractory Classical Hodgkin Lymphoma (MK-3475-087/KEYNOTE-087), Not Recruiting
- Study of Pembrolizumab (MK-3475) vs Standard Therapy in Participants With Microsatellite Instability-High (MSI-H) or Mismatch Repair Deficient (dMMR) Stage IV Colorectal Carcinoma (MK-3475-177/KEYNOTE-177), Not Recruiting
- Study to Investigate the Safety and Tolerability of Odronektamab in Patients With CD20+ B-Cell Malignancies, 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., Fischereider, 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., Enghart, E., Schlemmer, M., Hittinger, M., Uebleis, 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*
Clevert, D. A., Gürtler, V. M., Meimarakis, G., D'Anastasi, M., Weidenhagen, R., Reiser, M. F., Becker, C. R.
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- **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*
Uebles, 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*
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