

Stanford



Koen Nieman

Associate Professor of Medicine (Cardiovascular Medicine) and of Radiology (CV Imaging) at the Stanford University Medical Center

Medicine - Cardiovascular Medicine

CLINICAL OFFICES

- **Cardiovascular Medicine**

300 Pasteur Dr Rm H2103

MC 5218

Stanford, CA 94305

Tel (650) 723-0180 **Fax**

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Kathleen Gallagher - Administrative Associate

Email kgallagher@stanford.edu

Tel 6507238138

Bio

BIO

Dr Nieman is a cardiologist and associate professor in the departments of medicine/cardiovascular and radiology. He investigates advanced cardiac imaging techniques, and current projects include the development and technical validation of functional CT applications for ischemic heart disease, the validation of cardiac CT in clinical effectiveness trials, and multimodality imaging of cardiomyopathies. He is currently the president of the Society of Cardiovascular Computed Tomography.

Dr Nieman was born in the Netherlands, obtained his medical degree at the Radboud University in Nijmegen (1998), and completed his cardiology training at the Erasmus University Medical Center in Rotterdam (2008). His research in cardiac CT at the Erasmus University resulted in a PhD degree in 2003. In 2004 he performed an imaging fellowship at the Massachusetts General Hospital (Harvard Medical School) in Boston, MA. Dr Nieman joined the staff of the department of cardiology and radiology at the Erasmus University Medical Center in 2008, where he was scientific director of the cardiac CT and MRI group and supervised the intensive cardiac care unit until he joined the staff at Stanford University.

CLINICAL FOCUS

- Cardiology
- Computed tomography
- Magnetic resonance imaging
- Echocardiography
- Ischemic heart disease
- Coronary artery disease

ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Medicine - Cardiovascular Medicine
- Associate Professor - Med Center Line, Radiology
- Member, Cardiovascular Institute

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Annual Scientific Meeting Program Committee (2019-2020 Chair), Society of Cardiovascular Computed Tomography (2014 - present)
- President, Society of Cardiovascular Computed Tomography (2020 - present)
- CT Committee Member, Certification and Accreditation Committee, European Association of Cardiovascular Imaging (2016 - present)
- Board member, Society of Cardiovascular Computed Tomography (2015 - present)
- Board of Directors, International Society of Computed Tomography (2015 - 2019)
- Board member, Netherlands Vascular Forum (2013 - 2016)
- Nucleus member CT/Nuc section, European Association of Cardiovascular Imaging (2012 - 2016)
- Research and innovation committee, European Association of Cardiovascular Imaging (2012 - 2016)
- Program Committee Member, European Society of Cardiovascular Imaging (2012 - 2015)
- Board member (Chair 2012-2015), Cardiac CT/MR/Nuc working group of the Dutch Cardiology Association (2009 - 2015)

PROFESSIONAL EDUCATION

- Board Certification: Cardiology, RGS KNMG Dept of Postgraduate Training (2008)
- PhD Training: Erasmus University Medical Center (2003) Netherlands
- Fellowship: Massachusetts General Hospital Dept of Radiology (2005) MA United States of America
- Residency: Erasmus University Medical Center (2008) Netherlands
- Internship: Radboud University (1998) Netherlands
- Medical Education: Radboud University (1998) Netherlands
- Cardiologist, Erasmus University, Rotterdam, NL , Cardiology (2008)
- PhD, Erasmus University, Rotterdam, NL , Cardiac CT (2003)
- MD, Radboud University, Nijmegen, NL , Medicine (1998)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Current research interests:

Functional cardiac CT applications for the hemodynamic interpretation of coronary artery disease:

- CT myocardial perfusion imaging (SPECIFIC trial).
- CTA derived fractional flow reserve (ADVANCE registry, MACHINE registry, PRECISE trial).

Clinical validation of cardiac CT in cardiovascular medicine:

- Coronary CT angiography for the triage of patients with acute chest pain (BEACON randomized controlled trial).
- Tiered cardiac CT protocols algorithms for comprehensive assessment of patients with stable anginal complaints (CRESCENT and CRESCENT2 randomized controlled trials)

Comprehensive evaluation of patients with symptoms after coronary revascularization.

Multimodality imaging of cardiomyopathies.

Noninvasive characterization of atherosclerotic plaque.

Cardiac CT in structural heart disease.

Contrast media (CT-CON and IsoCOR randomized controlled trials).

CLINICAL TRIALS

- Comprehensive Computed Tomography Guidance of Coronary Bypass Graft Surgery, Recruiting
- International Consortium for Multimodality Phenotyping in Adults With Non-compaction, Not Recruiting

PROJECTS

- SPECIFIC Trial - Stanford University and others (5/1/2016 - present)
- ADVANCE registry - Stanford University (7/1/2015)

Publications

PUBLICATIONS

- **Temporal changes in FFRCT-Guided Management of Coronary Artery Disease - Lessons from the ADVANCE Registry.** *Journal of cardiovascular computed tomography*
Nous, F., Budde, R. P., Fairbairn, T. A., Akasaka, T., Norgaard, B. L., Berman, D. S., Raff, G., Hurwitz-Koweek, L. M., Pontone, G., Kawasaki, T., Sand, N. P., Jensen, J. M., Amano, et al
2020
- **Multimodality Imaging for Risk Assessment of Inherited Cardiomyopathies** *CURRENT CARDIOVASCULAR RISK REPORTS*
O'Sullivan, J. W., Rhee, J., Hsu, D., Wheeler, M. T., Nieman, K.
2020; 14 (5)
- **Prognostic Value of Subclinical Coronary Artery Disease in Atrial Fibrillation Patients Identified by Coronary Computed Tomography Angiography.** *The American journal of cardiology*
Nous, F. M., Budde, R. P., van Dijkman, E. D., Musters, P. J., Nieman, K., Galema, T. W.
2020
- **Society of Cardiovascular Computed Tomography guidance for use of cardiac computed tomography amidst the COVID-19 pandemic Endorsed by the American College of Cardiology.** *Journal of cardiovascular computed tomography*
Choi, A. D., Abbara, S., Branch, K. R., Feuchtner, G. M., Ghoshhajra, B., Nieman, K., Pontone, G., Villines, T. C., Williams, M. C., Blankstein, R.
2020
- **Anatomic or functional testing in stable patients with suspected CAD: contemporary role of cardiac CT in the ISCHEMIA trial era.** *The international journal of cardiovascular imaging*
Rodriguez-Granillo, G. A., Nieman, K., Carrascosa, P., Campisi, R., Ambrose, J. A.
2020
- **Impact of machine-learning CT-derived fractional flow reserve for the diagnosis and management of coronary artery disease in the randomized CRESCENT trials.** *European radiology*
Nous, F. M., Budde, R. P., Lubbers, M. M., Yamasaki, Y., Kardys, I., Bruning, T. A., Akkerhuis, J. M., Kofflard, M. J., Kietselaer, B., Galema, T. W., Nieman, K.
2020
- **Opportunities and challenges of implementing computed tomography fractional flow reserve into clinical practice.** *Heart (British Cardiac Society)*
Nazir, M. S., Mittal, T. K., Weir-McCall, J., Nieman, K., Channon, K., Nicol, E. D.
2020

- **Diagnostic CMR Imaging Criteria in Noncompaction Cardiomyopathy and the Yield of Genetic Testing.** *The Canadian journal of cardiology*
van Waning, J. I., Caliskan, K., Chelu, R. G., van der Velde, N., Pezzato, A., Michels, M., van Slegtenhorst, M. A., Boersma, E., Nieman, K., Majoor-Krakauer, D., Hirsch, A.
2020
- **1-Year Impact on Medical Practice and Clinical Outcomes of FFRCT The ADVANCE Registry** *JACC-CARDIOVASCULAR IMAGING*
Patel, M. R., Norgaard, B., Fairbairn, T. A., Nieman, K., Akasaka, T., Berman, D. S., Raff, G. L., Koweek, L., Pontone, G., Kawasaki, T., Sand, N., Jensen, J. M., Amano, et al
2020; 13 (1): 97–105
- **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., Schnittger, I., Tremmel, J., Pargaonkar, V., Rogers, I., Becker, H. C., Yang, S., Mastrodicasa, D., Willemink, M., Fleischmann, D., Nieman, K.
2020; 13 (2): e009576
- **Highlights of the fourteenth annual scientific meeting of the Society of Cardiovascular Computed Tomography.** *Journal of cardiovascular computed tomography*
Weir-McCall, J. R., Nicol, E., Abbara, S., Branch, K., Choi, A. D., Ghoshhajra, B. B., Leipsic, J., Nieman, K., Shaw, L. J., Blankstein, R.
2019
- **Society of cardiovascular computed tomography expert consensus document on myocardial computed tomography perfusion imaging.** *Journal of cardiovascular computed tomography*
Patel, A. R., Bamberg, F., Branch, K., Carrascosa, P., Chen, M., Cury, R. C., Ghoshhajra, B., Ko, B., Nieman, K., Pugliese, F., Schoepf, J., Blankstein, R.
2019
- **The global social media response to the 14th annual Society of Cardiovascular Computed Tomography scientific sessions.** *Journal of cardiovascular computed tomography*
Choi, A. D., Parwani, P., Michos, E. D., Lee, J., Singh, V., Fentanes, E., Lopez-Mattei, J., Gulati, M., Nasir, K., Nieman, K., Shaw, L. J., Blankstein, R.
2019
- **Coronary artery calcium: A technical argument for a new scoring method** *JOURNAL OF CARDIOVASCULAR COMPUTED TOMOGRAPHY*
Willemink, M. J., van der Werf, N. R., Nieman, K., Greuter, M. W., Koweek, L. M., Fleischmann, D.
2019; 13 (6): 347–52
- **Impact of iodine concentration and iodine delivery rate on contrast enhancement in coronary CT angiography: a randomized multicenter trial (CT-CON)** *EUROPEAN RADIOLOGY*
Rengo, M., Dharampal, A., Lubbers, M., Kock, M., Wildberger, J. E., Das, M., Niezen, A., van Tilborg, F., Kofflard, M., Laghi, A., Krestin, G., Nieman, K.
2019; 29 (11): 6109–18
- **Dynamic CT myocardial perfusion imaging.** *Journal of cardiovascular computed tomography*
Nieman, K., Balla, S.
2019
- **The feasibility, findings and future of CT-FFR in the emergency ward.** *Journal of cardiovascular computed tomography*
Nieman, K.
2019
- **Cardiac CT After Coronary Revascularization: Enough to Make a Difference?** *JACC. Cardiovascular imaging*
Nagel, E., Nieman, K.
2019
- **Influence of Coronary Calcium on Diagnostic Performance of Machine Learning CT-FFR: Results From MACHINE Registry.** *JACC. Cardiovascular imaging*
Tesche, C., Otani, K., De Cecco, C. N., Coenen, A., De Geer, J., Kruk, M., Kim, Y., Albrecht, M. H., Baumann, S., Renker, M., Bayer, R. R., Duguay, T. M., Litwin, et al
2019
- **Effect of Tube Voltage on Diagnostic Performance of Fractional Flow Reserve Derived From Coronary CT Angiography With Machine Learning: Results From the MACHINE Registry** *AMERICAN JOURNAL OF ROENTGENOLOGY*
De Geer, J., Coenen, A., Kim, Y., Kruk, M., Tesche, C., Schoepf, U., Kepka, C., Yang, D., Nieman, K., Persson, A.
2019; 213 (2): 325–31

- **Functional Interpretation of Coronary Stenoses by Cardiac CT and the Many Ways to Skin That Cat.** *JACC. Cardiovascular imaging*
Nieman, K., Chandrasekhar, Y.
2019; 12 (8 Pt 1): 1599–1600
- **Controversies in Diagnostic Imaging of Patients With Suspected Stable and Acute Chest Pain Syndromes.** *JACC. Cardiovascular imaging*
Shaw, L. J., Blankstein, R., Brown, D. L., Dhruva, S. S., Douglas, P. S., Genders, T. S., Gibbons, R. J., Greenwood, J. P., Kwong, R., Leipsic, J., Mahmarian, J. J., Maron, D., Nagel, et al
2019; 12 (7 Pt 1): 1254–78
- **Clinical applications of machine learning in cardiovascular disease and its relevance to cardiac imaging** *EUROPEAN HEART JOURNAL*
Al'Aref, S. J., Anchouche, K., Singh, G., Slomka, P. J., Kolli, K. K., Kumar, A., Pandey, M., Maliakal, G., van Rosendaal, A. R., Beecy, A. N., Berman, D. S., Leipsic, J., Nieman, et al
2019; 40 (24): 1975–+
- **The role of coronary CT angiography for acute chest pain in the era of high-sensitivity troponins.** *Journal of cardiovascular computed tomography*
Yang, S., Manjunath, L., Willeminck, M. J., Nieman, K.
2019
- **Coronary CT in Patients with a History of PCI or CABG: Helpful or Harmful?** *CURRENT CARDIOVASCULAR IMAGING REPORTS*
Jubran, A., Willeminck, M. J., Nieman, K.
2019; 12 (6)
- **1-Year Impact on Medical Practice and Clinical Outcomes of FFRCT: The ADVANCE Registry.** *JACC. Cardiovascular imaging*
Patel, M. R., Norgaard, B. L., Fairbairn, T. A., Nieman, K., Akasaka, T., Berman, D. S., Raff, G. L., Hurwitz Koweek, L. M., Pontone, G., Kawasaki, T., Sand, N. P., Jensen, J. M., Amano, et al
2019
- **Intermodality variation of aortic dimensions: How, where and when to measure the ascending aorta** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Bons, L. R., Duijnhouwer, A. L., Boccacini, S., van den Hoven, A. T., van der Vlugt, M. J., Chelu, R. G., McGhie, J. S., Kardys, I., van den Bosch, A. E., Siebelink, H. J., Nieman, K., Hirsch, A., Broberg, et al
2019; 276: 230–35
- **Impact of iodine concentration and iodine delivery rate on contrast enhancement in coronary CT angiography: a randomized multicenter trial (CT-CON).** *European radiology*
Rengo, M., Dharampal, A., Lubbers, M., Kock, M., Wildberger, J. E., Das, M., Niezen, A., van Tilborg, F., Kofflard, M., Laghi, A., Krestin, G., Nieman, K.
2019
- **Gender differences in the diagnostic performance of machine learning coronary CT angiography-derived fractional flow reserve -results from the MACHINE registry.** *European journal of radiology*
Baumann, S., Renker, M., Schoepf, U. J., De Cecco, C. N., Coenen, A., De Geer, J., Kruk, M., Kim, Y. H., Albrecht, M. H., Duguay, T. M., Jacobs, B. E., Bayer, R. R., Litwin, et al
2019; 119: 108657
- **A novel therapy for an unusual problem: IL-1 receptor antagonist for recurrent post-transplant pericarditis.** *Clinical transplantation*
Parizo, J. T., Moayed, Y., Nieman, K., Town, K., Teuteberg, J. J., Khush, K. K.
2019
- **Effect of Tube Voltage on Diagnostic Performance of Fractional Flow Reserve Derived From Coronary CT Angiography With Machine Learning: Results From the MACHINE Registry.** *AJR. American journal of roentgenology*
De Geer, J., Coenen, A., Kim, Y. H., Kruk, M., Tesche, C., Schoepf, U. J., Kepka, C., Yang, D. H., Nieman, K., Persson, A.
2019: 1–7
- **Determinants of Rejection Rate for Coronary CT Angiography Fractional Flow Reserve Analysis.** *Radiology*
Pontone, G., Weir-McCall, J. R., Baggiano, A., Del Torto, A., Fusini, L., Guglielmo, M., Muscogiuri, G., Guaricci, A. I., Andreini, D., Patel, M., Nieman, K., Akasaka, T., Rogers, et al
2019: 182673
- **Comparison of the Diagnostic Performance of Coronary Computed Tomography Angiography-Derived Fractional Flow Reserve in Patients With Versus Without Diabetes Mellitus (from the MACHINE Consortium).** *The American journal of cardiology*
Nous, F. M., Coenen, A., Boersma, E., Kim, Y., Kruk, M. B., Tesche, C., de Geer, J., Yang, D. H., Kepka, C., Schoepf, U. J., Persson, A., Kurata, A., Budde, et al
2018

- **Comprehensive Cardiac CT With Myocardial Perfusion Imaging Versus Functional Testing in Suspected Coronary Artery Disease: The Multicenter, Randomized CRESCENT-II Trial.** *JACC. Cardiovascular imaging*
Lubbers, M., Coenen, A., Kofflard, M., Bruning, T., Kietselaer, B., Galema, T., Kock, M., Niezen, A., Das, M., van Gent, M., van den Bos, E., van Woerkens, L., Musters, et al
2018; 11 (11): 1625–36
- **Cardiac Computed Tomography 2.0: Adding Physiology to Anatomy.** *JACC. Cardiovascular imaging*
Nieman, K., Shaw, L. J., Chandrasekhar, Y.
2018; 11 (11): 1733–35
- **Highlights of the thirteenth annual scientific meeting of the Society of Cardiovascular Computed Tomography.** *Journal of cardiovascular computed tomography*
Weir-McCall, J. R., Madan, N., Villines, T. C., Shaw, L. J., Abbara, S., Ferencik, M., Nieman, K., Blankstein, R., Ghoshhajra, B. B., Choi, A. D., Nicol, E.
2018
- **Computed tomography myocardial perfusion imaging vs. computed tomography-derived fractional flow reserve, which way forward?** *European heart journal cardiovascular Imaging*
Nieman, K.
2018
- **Evaluation of atrial septal defects with 4D flow MRI-multilevel and inter-reader reproducibility for quantification of shunt severity.** *Magma (New York, N.Y.)*
Chelu, R. G., Horowitz, M., Sucha, D., Kardys, I., Ingremau, D., Vasanawala, S., Nieman, K., Paul, J., Hsiao, A.
2018
- **Intermodality variation of aortic dimensions: How, where and when to measure the ascending aorta.** *International journal of cardiology*
Bons, L. R., Duijnhouwer, A. L., Boccalini, S., van den Hoven, A. T., van der Vlugt, M. J., Chelu, R. G., McGhie, J. S., Kardys, I., van den Bosch, A. E., Siebelink, H. J., Nieman, K., Hirsch, A., Broberg, et al
2018
- **Clinical applications of machine learning in cardiovascular disease and its relevance to cardiac imaging.** *European heart journal*
Al'Aref, S. J., Anchouche, K., Singh, G., Slomka, P. J., Kolli, K. K., Kumar, A., Pandey, M., Maliakal, G., van Rosendaal, A. R., Beecy, A. N., Berman, D. S., Leipsic, J., Nieman, et al
2018
- **Diagnostic Accuracy of a Machine-Learning Approach to Coronary Computed Tomographic Angiography-Based Fractional Flow Reserve Result From the MACHINE Consortium** *CIRCULATION-CARDIOVASCULAR IMAGING*
Coenen, A., Kim, Y., Kruk, M., Tesche, C., De Geer, J., Kurata, A., Lubbers, M. L., Daemen, J., Itu, L., Rapaka, S., Sharma, P., Schwemmer, C., Persson, et al
2018; 11 (6): e007217
- **Round-the-clock performance of coronary CT angiography for suspected acute coronary syndrome: Results from the BEACON trial** *EUROPEAN RADIOLOGY*
Lubbers, M. M., Dedic, A., Kurata, A., Dijkshoorn, M., Schaap, J., Lammers, J., Lamfers, E. J., Rensing, B. J., Braam, R. L., Nathoe, H. M., Post, J. C., Rood, P. P., Schultz, et al
2018; 28 (5): 2169–75
- **Strategies for radiation dose reduction in nuclear cardiology and cardiac computed tomography imaging: a report from the European Association of Cardiovascular Imaging (EACVI), the Cardiovascular Committee of European Association of Nuclear Medicine (EANM), and the European Society of Cardiovascular Radiology (ESCR)** *EUROPEAN HEART JOURNAL*
Gimelli, A., Achenbach, S., Buechel, R. R., Edvardsen, T., Francone, M., Gaemperli, O., Hacker, M., Hyafil, F., Kaufmann, P. A., Lancellotti, P., Nieman, K., Pontone, G., Pugliese, et al
2018; 39 (4): 286–94
- **Iodixanol versus iopromide at Coronary CT Angiography: Lumen Opacification and Effect on Heart Rhythm—the Randomized IsoCOR Trial** *RADIOLOGY*
Lubbers, M. M., Kock, M., Niezen, A., Galema, T., Kofflard, M., Bruning, T., Kooij, H. S., van Valen, H., Dijkshoorn, M., Booi, R., Padmos, A., Vogels, A., Budde, et al
2018; 286 (1): 71–80
- **Coronary artery calcium: A technical argument for a new scoring method.** *Journal of cardiovascular computed tomography*
Willeminck, M. J., van der Werf, N. R., Nieman, K., Greuter, M. J., Koweek, L. M., Fleischmann, D.

2018

- **Highlights of the Twelfth Annual Scientific Meeting of the Society of Cardiovascular Computed Tomography** *JOURNAL OF CARDIOVASCULAR COMPUTED TOMOGRAPHY*
Weir-McCall, J. R., Villines, T. C., Shaw, L. J., Abbara, S., Ferencik, M., Nieman, K., Achenbach, S., Nicol, E.
2018; 12 (1): 3-7
- **Diagnostic Value of Transluminal Attenuation Gradient for the Presence of Ischemia as Defined by Fractional Flow Reserve and Quantitative Positron Emission Tomography.** *JACC. Cardiovascular imaging*
Bom, M. J., Driessen, R. S., Stuijzand, W. J., Raijmakers, P. G., Van Kuijk, C. C., Lammertsma, A. A., van Rossum, A. C., van Royen, N., Knuuti, J., Maki, M., Nieman, K., Min, J. K., Leipsic, et al
2017
- **Is there still a role for cardiac CT in the emergency department in the era of highly-sensitive troponins?** *Minerva cardioangiologica*
Dedic, A., Nieman, K., Hoffmann, U., Ferencik, M.
2017; 65 (3): 214-224
- **Calcium Imaging in the Emergency Department: Between a Rock and a Hard Place** *CIRCULATION-CARDIOVASCULAR IMAGING*
Nieman, K.
2017; 10 (5)
- **Sex Differences in the Performance of Cardiac Computed Tomography Compared With Functional Testing in Evaluating Stable Chest Pain: Subanalysis of the Multicenter, Randomized CRESCENT Trial (Calcium Imaging and Selective CT Angiography in Comparison to Functional Testing for Suspected Coronary Artery Disease).** *Circulation. Cardiovascular imaging*
Lubbers, M., Coenen, A., Bruning, T., Galema, T., Akkerhuis, J., Krenning, B., Musters, P., Ouhlous, M., Liem, A., Niezen, A., Dedic, A., van Domburg, R., Hunink, et al
2017; 10 (2)
- **Cloud-processed 4D CMR flow imaging for pulmonary flow quantification.** *European journal of radiology*
Chelu, R. G., Wanambiro, K. W., Hsiao, A., Swart, L. E., Voogd, T., van den Hoven, A. T., van Kranenburg, M., Coenen, A., Bocalini, S., Wielopolski, P. A., Vogel, M. W., Krestin, G. P., Vasanawala, et al
2016; 85 (10): 1849-1856
- **Calcium imaging and selective computed tomography angiography in comparison to functional testing for suspected coronary artery disease: the multicentre, randomized CRESCENT trial** *EUROPEAN HEART JOURNAL*
Lubbers, M., Dedic, A., Coenen, A., Galema, T., Akkerhuis, J., Bruning, T., Krenning, B., Musters, P., Ouhlous, M., Liem, A., Niezen, A., Hunink, M., de Feijter, et al
2016; 37 (15): 1232-1243
- **'Prognostic implications of non-culprit plaques in acute coronary syndrome: non-invasive assessment with coronary CT angiography'.** *European heart journal cardiovascular Imaging*
Dedic, A., Kurata, A., Lubbers, M., Meijboom, W. B., van Dalen, B. M., Snelder, S., Korbee, R., Moelker, A., Ouhlous, M., Van Domburg, R., de Feijter, P. J., Nieman, K.
2016; 17 (4): 392-?
- **Qualitative grading of aortic regurgitation: a pilot study comparing CMR 4D flow and echocardiography** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Chelu, R. G., van den Bosch, A. E., van Kranenburg, M., Hsiao, A., van den Hoven, A. T., Ouhlous, M., Budde, R. P., Beniest, K. M., Swart, L. E., Coenen, A., Lubbers, M. M., Wielopolski, P. A., Vasanawala, et al
2016; 32 (2): 301-307
- **Coronary CT Angiography for Suspected ACS in the Era of High-Sensitivity Troponins: Randomized Multicenter Study.** *Journal of the American College of Cardiology*
Dedic, A., Lubbers, M. M., Schaap, J., Lammers, J., Lamfers, E. J., Rensing, B. J., Braam, R. L., Nathoe, H. M., Post, J. C., Nielen, T., Beelen, D., le Cocq d'Armandville, M., Rood, et al
2016; 67 (1): 16-26
- **Diagnostic value of transmural perfusion ratio derived from dynamic CT-based myocardial perfusion imaging for the detection of haemodynamically relevant coronary artery stenosis.** *European radiology*
Coenen, A., Lubbers, M. M., Kurata, A., Kono, A., Dedic, A., Chelu, R. G., Dijkshoorn, M. L., Rossi, A., van Geuns, R. M., Nieman, K.
2016

- **Qualitative grading of aortic regurgitation: a pilot study comparing CMR 4D flow and echocardiography.** *The international journal of cardiovascular imaging*
Chelu, R. G., van den Bosch, A. E., van Kranenburg, M., Hsiao, A., van den Hoven, A. T., Ouhlous, M., Budde, R. P., Beniest, K. M., Swart, L. E., Coenen, A., Lubbers, M. M., Wielopolski, P. A., Vasanawala, et al
2016; 32 (2): 301-7
- **Coronary angiography after cardiac arrest: Rationale and design of the COACT trial.** *American heart journal*
Lemkes, J. S., Janssens, G. N., Straaten, H. M., Elbers, P. W., van der Hoeven, N. W., Tijssen, J. G., Otterspoor, L. C., Voskuil, M., van der Heijden, J. J., Meuwissen, M., Rijpstra, T. A., Vlachojannis, G. J., van der Vleugel, et al
2016; 180: 39-45
- **Cardiac computed tomography in patients with acute chest pain** *EUROPEAN HEART JOURNAL*
Nieman, K., Hoffmann, U.
2015; 36 (15): 906-914
- **The Optimal Imaging Strategy for Patients With Stable Chest Pain A Cost-Effectiveness Analysis** *ANNALS OF INTERNAL MEDICINE*
Genders, T. S., Petersen, S. E., Pugliese, F., Dastidar, A. G., Fleischmann, K. E., Nieman, K., Hunink, M. G.
2015; 162 (7): 474-U145
- **Cardiac computed tomography core syllabus of the European Association of Cardiovascular Imaging (EACVI)** *EUROPEAN HEART JOURNAL-CARDIOVASCULAR IMAGING*
Nieman, K., Achenbach, S., Pugliese, F., Cosyns, B., Lancellotti, P., Kitsiou, A.
2015; 16 (4): 351-352
- **Fractional Flow Reserve Computed from Noninvasive CT Angiography Data: Diagnostic Performance of an On-Site Clinician-operated Computational Fluid Dynamics Algorithm** *RADIOLOGY*
Coenen, A., Lubbers, M. M., Kurata, A., Kono, A., Dedic, A., Chelu, R. G., Dijkshoorn, M. L., Gijsen, F. J., Ouhlous, M., van Geuns, R. M., Nieman, K.
2015; 274 (3): 674-683
- **Multislice computed tomography angiography for noninvasive assessment of the 18-month performance of a novel radiolucent bioresorbable vascular scaffolding device: the ABSORB trial (a clinical evaluation of the bioabsorbable everolimus eluting coronary stent system in the treatment of patients with de novo native coronary artery lesions).** *Journal of the American College of Cardiology*
Nieman, K., Serruys, P. W., Onuma, Y., van Geuns, R., Garcia-Garcia, H. M., De Bruyne, B., Thuesen, L., Smits, P. C., Koolen, J. J., McClean, D., Chevalier, B., Meredith, I., Ormiston, et al
2013; 62 (19): 1813-1814
- **Expert Consensus for Multi-Modality Imaging Evaluation of Cardiovascular Complications of Radiotherapy in Adults: A Report from the European Association of Cardiovascular Imaging and the American Society of Echocardiography** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*
Lancellotti, P., Nkomo, V. T., Badano, L. P., Bergler, J., Bogaert, J., Davin, L., Cosyns, B., Coucke, P., Dulgheru, R., Edvardsen, T., Gaemperli, O., Galderisi, M., Griffin, et al
2013; 26 (9): 1013-1032
- **Expert consensus for multi-modality imaging evaluation of cardiovascular complications of radiotherapy in adults: a report from the European Association of Cardiovascular Imaging and the American Society of Echocardiography** *EUROPEAN HEART JOURNAL-CARDIOVASCULAR IMAGING*
Lancellotti, P., Nkomo, V. T., Badano, L. P., Bergler, J., Bogaert, J., Davin, L., Cosyns, B., Coucke, P., Dulgheru, R., Edvardsen, T., Gaemperli, O., Galderisi, M., Griffin, et al
2013; 14 (8): 721-740
- **Comparison of postprocessing techniques for the detection of perfusion defects by cardiac computed tomography in patients presenting with acute ST-segment elevation myocardial infarction** *JOURNAL OF CARDIOVASCULAR COMPUTED TOMOGRAPHY*
Rogers, I. S., Cury, R. C., Blankstein, R., Shapiro, M. D., Nieman, K., Hoffmann, U., Brady, T. J., Abbara, S.
2010; 4 (4): 258-266
- **A bioabsorbable everolimus-eluting coronary stent system (ABSORB): 2-year outcomes and results from multiple imaging methods** *LANCET*
Serruys, P. W., Ormiston, J. A., Onuma, Y., Regar, E., Gonzalo, N., Garcia-Garcia, H. M., Nieman, K., Bruining, N., Dorange, C., Miquel-Hebert, K., Veldhof, S., Webster, M., Thuesen, et al
2009; 373 (9667): 897-910
- **Reliable noninvasive coronary angiography with fast submillimeter multislice spiral computed tomography** *CIRCULATION*
Nieman, K., Cademartiri, F., Lemos, P. A., Raaijmakers, R., Pattynama, P. M., de Feyter, P. J.

2002; 106 (16): 2051-2054

- **Coronary angiography with multi-slice computed tomography** *LANCET*

Nieman, K., Oudkerk, M., Rensing, B. J., van Ooijen, P., Munne, A., van Geuns, R. J., de Feyter, P. J.

2001; 357 (9256): 599-603