

Stanford



Koen Nieman

Professor of Medicine (Cardiovascular Medicine) and of Radiology (CV Imaging)
Medicine - Cardiovascular Medicine

CLINICAL OFFICES

- **Center for Academic Medicine - Cardiovascular Medicine**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Dr Nieman is a cardiologist and 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

- Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Professor - University Medical 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: Adult Comprehensive Echocardiography, National Board of Echocardiography (2020)
- Board Certification: Cardiovascular Computed Tomography, Council for Certification in Cardiovascular Imaging (2020)
- 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, Recruiting

PROJECTS

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

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Ashish Manohar

Publications

PUBLICATIONS

- **Colocalization of Coronary Plaque with Wall Shear Stress in Myocardial Bridge Patients.** *Cardiovascular engineering and technology*
Khan, M. O., Nishi, T., Imura, S., Seo, J., Wang, H., Honda, Y., Nieman, K., Rogers, I. S., Tremmel, J. A., Boyd, J., Schnittger, I., Marsden, A.
2022
- **Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imaging-part II.** *European heart journal. Cardiovascular Imaging*
Pontone, G., Rossi, A., Guglielmo, M., Dweck, M. R., Gaemperli, O., Nieman, K., Pugliese, F., Maurovich-Horvat, P., Gimelli, A., Cosyns, B., Achenbach, S.
2022
- **Coronary volume to left ventricular mass ratio in patients with diabetes mellitus.** *Journal of cardiovascular computed tomography*
Kuneman, J. H., El Mahdiui, M., van Rosendael, A. R., van den Hoogen, I. J., Patel, M. R., Norgaard, B. L., Fairbairn, T. A., Nieman, K., Akasaka, T., Berman, D. S., Hurwitz Koweek, L. M., Pontone, G., Kawasaki, et al
2022
- **Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imaging-part I.** *European heart journal. Cardiovascular Imaging*
Pontone, G., Rossi, A., Guglielmo, M., Dweck, M. R., Gaemperli, O., Nieman, K., Pugliese, F., Maurovich-Horvat, P., Gimelli, A., Cosyns, B., Achenbach, S.
1800
- **Incremental value of volumetric quantification for myocardial perfusion imaging by computed tomography.** *Kardiologia polska*
Oleksiak, A., Kepka, C., Nieman, K., Debski, M., Demkow, M., Kruk, M.
1800

- **Low-dose coronary calcium scoring CT using a dedicated reconstruction filter for kV-independent calcium measurements.** *European radiology*
Jubran, A., Mastrodicasa, D., van Praagh, G. D., Willeminck, M. J., Kino, A., Wang, J., Fleischmann, D., Nieman, K.
1800
- **The Influence of Obesity on Coronary Artery Disease and Clinical Outcomes in the ADVANCE Registry**
Lowenstern, A., Takagi, H., Ng, N., Rymer, J., Koweek, L., Douglas, P., Duran, J., Rabbat, M., Chinnaiyan, K., Berman, D., De Bruyne, B., Bax, J., Akasaka, et al
ELSEVIER SCIENCE INC.2021: B124-B125
- **Relationship Between Coronary CT Angiography-Derived Fractional Flow Reserve and Clinical Outcomes in Patients With and Without Diabetes**
Gulsin, G., Tzimas, G., Takagi, H., Eddy, R., Blanke, P., Park, P., Koweek, L., Norgaard, B., Rabbat, M., Fairbairn, T., Chinnaiyan, K., Douglas, P., Huey, et al
ELSEVIER SCIENCE INC.2021: B164
- **Anatomic and Functional Discordance Among Patients With Nonobstructive Coronary Disease**
Rymer, J., Takagi, H., Lowenstern, A., Rabbat, M., Fairbairn, T., Chinnaiyan, K., Douglas, P., Koweek, L., Berman, D., De Bruyne, B., Bax, J., Akasaka, T., Amano, et al
ELSEVIER SCIENCE INC.2021: B36-B37
- **Relationship Between Coronary Atheroma, Epicardial Adipose Tissue Inflammation, and Adipocyte Differentiation Across the Human Myocardial Bridge.** *Journal of the American Heart Association*
McLaughlin, T., Schnittger, I., Nagy, A., Zanelly, E., Xu, Y., Song, Y., Nieman, K., Tremmel, J. A., Dey, D., Boyd, J., Sacks, H.
2021: e021003
- **Prognostic value of coronary computed tomography angiographic derived fractional flow reserve: a systematic review and meta-analysis.** *Heart (British Cardiac Society)*
Norgaard, B. L., Gaur, S., Fairbairn, T. A., Douglas, P. S., Jensen, J. M., Patel, M. R., Ihdahid, A. R., Ko, B. S., Sellers, S. L., Weir-McCall, J., Matsuo, H., Sand, N. P., Ovrehus, et al
2021
- **Deep learning evaluation of biomarkers from echocardiogram videos.** *EBioMedicine*
Hughes, J. W., Yuan, N., He, B., Ouyang, J., Ebinger, J., Botting, P., Lee, J., Theurer, J., Tooley, J. E., Nieman, K., Lungren, M. P., Liang, D. H., Schnittger, et al
2021; 73: 103613
- **Highlights of the 16th annual scientific meeting of the society of cardiovascular computed tomography.** *Journal of cardiovascular computed tomography*
Williams, M. C., Ferencik, M., Branch, K. R., Nieman, K., Ghoshhajra, B. B., Choi, A. D., Nicol, E. D., Williamson, E.
2021
- **Dual-energy CT plaque characteristics of post mortem thin-cap fibroatheroma in comparison to infarct-related culprit lesions.** *Heart and vessels*
Sheta, H. M., Precht, H., Busk, C. A., Heinsen, L. J., Nieman, K., Egstrup, K., Lambrechtsen, J.
2021
- **Impact of Diastolic Vessel Restriction on Quality of Life in Symptomatic Myocardial Bridging Patients Treated With Surgical Unroofing: Preoperative Assessments With Intravascular Ultrasound and Coronary Computed Tomography Angiography.** *Circulation. Cardiovascular interventions*
Hashikata, T., Honda, Y., Wang, H., Pargaonkar, V. S., Nishi, T., Hollak, M. B., Rogers, I. S., Nieman, K., Yock, P. G., Fitzgerald, P. J., Schnittger, I., Boyd, J. H., Tremmel, et al
2021; 14 (10): e011062
- **Dynamic Myocardial Perfusion CT for the Detection of Hemodynamically Significant Coronary Artery Disease.** *JACC. Cardiovascular imaging*
Nous, F. M., Geisler, T., Kruk, M. B., Alkadhi, H., Kitagawa, K., Vliegenthart, R., Hell, M. M., Hausleiter, J., Nguyen, P. K., Budde, R. P., Nikolaou, K., Kepka, C., Manka, et al
2021
- **Trans-lesional fractional flow reserve gradient as derived from coronary CT improves patient management: ADVANCE registry.** *Journal of cardiovascular computed tomography*
Takagi, H., Leipsic, J. A., McNamara, N., Martin, I., Fairbairn, T. A., Akasaka, T., Norgaard, B. L., Berman, D. S., Chinnaiyan, K., Hurwitz-Koweek, L. M., Pontone, G., Kawasaki, T., Ronnow Sand, et al
2021
- **CARDIAC COMPUTED TOMOGRAPHY ANGIOGRAPHY FOR THE SCREENING OF CARDIAC ALLOGRAFT VASCULOPATHY, TWO YEARS OF EXPERIENCE**
Roest, S., Nous, F. A., Brugts, J. J., Attrach, M., Nieman, K., Caliskan, K., Hirsch, A., Constantinescu, A. A., Budde, R. J., Manintveld, O.
WILEY.2021: 79

- **Clinical implementation of coronary computed tomography angiography for routine detection of cardiac allograft vasculopathy in heart transplant patients.** *Transplant international : official journal of the European Society for Organ Transplantation*
Nous, F. M., Roest, S., van Dijkman, E. D., Attrach, M., Caliskan, K., Brugts, J. J., Nieman, K., Hirsch, A., Constantinescu, A. A., Manintveld, O. C., Budde, R. P. 2021
- **Coronary Artery Calcium Scoring: Toward a New Standard.** *Investigative radiology*
van Praagh, G. D., Wang, J., van der Werf, N. R., Greuter, M. J., Mastrodicasa, D., Nieman, K., van Hamersvelt, R. W., Oostveen, L. J., Lange, F. d., Slart, R. H., Leiner, T., Fleischmann, D., Willemink, et al
2021
- **Emerging methods for the characterization of ischemic heart disease: ultrafast Doppler angiography, micro-CT, photon-counting CT, novel MRI and PET techniques, and artificial intelligence.** *European radiology experimental*
Willemink, M. J., Varga-Szemes, A., Schoepf, U. J., Codari, M., Nieman, K., Fleischmann, D., Mastrodicasa, D.
2021; 5 (1): 12
- **Accreditation in cardiovascular CT.** *Journal of cardiovascular computed tomography*
Nieman, K.
2021
- **Characteristics of culprit lesion in patients with non-ST-elevation myocardial infarction and improvement of diagnostic utility using dual energy cardiac CT.** *The international journal of cardiovascular imaging*
Sheta, H. M., Moller, S., Heinsen, L. J., Nieman, K., Thomsen, T., Egstrup, K., Lambrechtsen, J.
2021
- **From Inception to 2020: a Review of Dynamic Myocardial CT Perfusion Imaging** *CURRENT CARDIOVASCULAR IMAGING REPORTS*
Balla, S., Nieman, K.
2021; 14 (1)
- **Coronary Computed Tomographic Angiography for Complete Assessment of Coronary Artery Disease: JACC State-of-the-Art Review.** *Journal of the American College of Cardiology*
Serruys, P. W., Hara, H., Garg, S., Kawashima, H., Nørgaard, B. L., Dweck, M. R., Bax, J. J., Knuuti, J., Nieman, K., Leipsic, J. A., Mushtaq, S., Andreini, D., Onuma, et al
2021; 78 (7): 713-736
- **Best Practices for Imaging Cardiac Device-Related Infections and Endocarditis: A JACC: Cardiovascular Imaging Expert Panel Statement.** *JACC. Cardiovascular imaging*
Dilsizian, V., Budde, R. P., Chen, W., Mankad, S. V., Lindner, J. R., Nieman, K.
2021
- **A Policy Statement on Cardiovascular Test Substitution and Authorization: Principles of Patient-Centered Noninvasive Testing.** *Journal of the American College of Cardiology*
Thompson, R. C., Bateman, T. M., Blankstein, R., Di Carli, M. F., Heydari, B., Hung, J., Kwong, R. Y., Lindner, J. R., Nieman, K., Dorbala, S.
2021; 78 (13): 1385-1389
- **Association Among Local Hemodynamic Parameters Derived From CT Angiography and Their Comparable Implications in Development of Acute Coronary Syndrome.** *Frontiers in cardiovascular medicine*
Yang, S., Choi, G., Zhang, J., Lee, J. M., Hwang, D., Doh, J., Nam, C., Shin, E., Cho, Y., Choi, S., Chun, E. J., Norgaard, B. L., Nieman, et al
2021; 8: 713835
- **Relationship of Stress Test Findings to Anatomic or Functional Extent of Coronary Artery Disease Assessed by Coronary Computed Tomography Angiography-Derived Fractional Flow Reserve.** *BioMed research international*
Doukas, D. n., Allen, S. n., Wozniak, A. n., Kunchakarra, S. n., Verma, R. n., Marot, J. n., Lopez, J. J., Nieman, K. n., Pontone, G. n., Leipsic, J. n., Bax, J. n., Rabbat, M. G.
2021; 2021: 6674144
- **SCCT: A growing community.** *Journal of cardiovascular computed tomography*
Nieman, K.
2020
- **Cardiovascular CT in a world adrift.** *Journal of cardiovascular computed tomography*
Nieman, K.

2020

- **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
- **Multimodality Cardiovascular Imaging in the Midst of the COVID-19 Pandemic: Ramping Up Safely to a New Normal.** *JACC. Cardiovascular imaging*
Zoghbi, W. A., DiCarli, M. F., Blankstein, R. n., Choi, A. D., Dilsizian, V. n., Flachskampf, F. A., Geske, J. B., Grayburn, P. A., Jaffer, F. A., Kwong, R. Y., Leipsic, J. A., Marwick, T. H., Nagel, et al
2020; 13 (7): 1615–26
- **Diagnostic CMR Imaging Criteria in Noncompaction Cardiomyopathy and the Yield of Genetic Testing.** *The Canadian journal of cardiology*
van Waning, J. I., Caliskan, K. n., Chelu, R. G., van der Velde, N. n., Pezzato, A. n., Michels, M. n., van Slegtenhorst, M. A., Boersma, E. n., Nieman, K. n., Majoor-Krakauer, D. n., Hirsch, A. n.
2020
- **Cardiac Imaging in the Post-ISCHEMIA Trial Era: A Multisociety Viewpoint.** *JACC. Cardiovascular imaging*
Shaw, L. n., Kwong, R. Y., Nagel, E. n., Salerno, M. n., Jaffer, F. n., Blankstein, R. n., Dilsizian, V. n., Flachskampf, F. n., Grayburn, P. n., Leipsic, J. n., Marwick, T. n., Nieman, K. n., Raman, et al
2020; 13 (8): 1815–33
- **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. n., Schnittger, I. n., Tremmel, J. n., Pargaonkar, V. n., Rogers, I. n., Becker, H. C., Yang, S. n., Mastrodicasa, D. n., Willemink, M. n., Fleischmann, D. n., Nieman, K. n.
2020; 13 (2): e009576
- **Sex Differences in Coronary Computed Tomography Angiography-Derived Fractional Flow Reserve: Lessons From ADVANCE.** *JACC. Cardiovascular imaging*
Fairbairn, T. A., Dobson, R. n., Hurwitz-Koweek, L. n., Matsuo, H. n., Norgaard, B. L., Rønnow Sand, N. P., Nieman, K. n., Bax, J. J., Pontone, G. n., Raff, G. n., Chinnaiyan, K. M., Rabbat, M. n., Amano, et al

2020

- **Current Evidence and Recommendations for Coronary CTA First in Evaluation of Stable Coronary Artery Disease.** *Journal of the American College of Cardiology*
Poon, M. n., Lesser, J. R., Biga, C. n., Blankstein, R. n., Kramer, C. M., Min, J. K., Noack, P. S., Farrow, C. n., Hoffman, U. n., Murillo, J. n., Nieman, K. n., Shaw, L. J.
2020; 76 (11): 1358–62
- **Pace of guidance publishing accelerates in cardiovascular CT.** *Journal of cardiovascular computed tomography*
Nieman, K. n.
2020
- **Lipid-rich Plaques Detected by Near-infrared Spectroscopy Are More Frequently Exposed to High Shear Stress.** *Journal of cardiovascular translational research*
Hartman, E. M., De Nisco, G. n., Kok, A. M., Hoogendoorn, A. n., Coenen, A. n., Mastik, F. n., Korteland, S. A., Nieman, K. n., Gijzen, F. J., van der Steen, A. F., Daemen, J. n., Wentzel, J. J.
2020
- **The clinical utility of FFRCT stratified by age.** *Journal of cardiovascular computed tomography*
Anastasius, M. n., Maggiore, P. n., Huang, A. n., Blanke, P. n., Patel, M. R., Nørgaard, B. L., Fairbairn, T. A., Nieman, K. n., Akasaka, T. n., Berman, D. S., Raff, G. L., Hurwitz Koweek, L. M., Pontone, et al
2020
- **Highlights of the 15th annual scientific meeting of the Society of Cardiovascular Computed Tomography.** *Journal of cardiovascular computed tomography*
Weir-McCall, J. R., Branch, K. n., Ferencik, M. n., Blankstein, R. n., Choi, A. D., Ghoshhajra, B. B., Chinnaiyan, K. n., Parwani, P. n., Nicol, E. n., Nieman, K. n.
2020
- **Stress myocardial perfusion with qualitative magnetic resonance and quantitative dynamic computed tomography: comparison of diagnostic performance and incremental value over coronary computed tomography angiography.** *European heart journal cardiovascular Imaging*
de Kneegt, M. C., Rossi, A. n., Petersen, S. E., Wragg, A. n., Khurram, R. n., Westwood, M. n., Saberwal, B. n., Mathur, A. n., Nieman, K. n., Bamberg, F. n., Jensen, M. T., Pugliese, F. n.
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. n., Nieman, K. n., Channon, K. n., Nicol, E. D.
2020
- **SCCT 2021 expert consensus document on coronary computed tomographic angiography: A report of the society of Cardiovascular Computed Tomography.** *Journal of cardiovascular computed tomography*
Narula, J. n., Chandrashekar, Y. n., Ahmadi, A. n., Abbara, S. n., Berman, D. S., Blankstein, R. n., Leipsic, J. n., Newby, D. n., Nicol, E. D., Nieman, K. n., Shaw, L. n., Villines, T. C., Williams, et al
2020
- **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*
Willeminck, 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., Chandrashekar, 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., Mahmorian, 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., Anouchouche, K., Singh, G., Slomka, P. J., Kolli, K. K., Kumar, A., Pandey, M., Maliakal, G., van Rosendael, A. R., Beecy, A. N., Berman, D. S., Leipsic, J., Nieman, et al
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