



Koen Nieman

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

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **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 - 2021)
- 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: Cardiovascular Computed Tomography, Council for Certification in Cardiovascular Imaging (2021)
- Board Certification: Adult Echocardiography, National Board of Echocardiography (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 Research Mentor

Maria Jose Medrano Matamoros

Publications

PUBLICATIONS

- **Cardiac CT fractal analysis of LV noncompaction and common cardiomyopathies.** *Journal of cardiovascular computed tomography*
Manohar, A., Wong, A., Castillo, E., Gunderson, A., Mistelbauer, G., Bagherzadeh, S. P., Haddad, F., Caliskan, K., Budde, R. P., Hirsch, A., Lee, S. P., Lee, W., Owens, et al
2025
- **High-intensity statin therapy is associated with reduced coronary inflammation on CT in patients with type 2 diabetes mellitus.** *Diabetes, obesity & metabolism*
Wu, B., Nieman, K., Sandoval, R.
2025
- **Coronary CT angiography evaluation with artificial intelligence for individualized medical treatment of atherosclerosis: a Consensus Statement from the QCI Study Group.** *Nature reviews. Cardiology*
Schulze, K., Stantien, A., Williams, M. C., Vassiliou, V. S., Giannopoulos, A. A., Nieman, K., Maurovich-Horvat, P., Tarkin, J. M., Vliegenthart, R., Weir-McCall, J., Mohamed, M., Follmer, B., Biavati, et al
2025
- **Personalized and uncertainty-aware coronary hemodynamics simulations: From Bayesian estimation to improved multi-fidelity uncertainty quantification.** *Computer methods and programs in biomedicine*
Menon, K., Zaroni, A., Khan, M. O., Geraci, G., Nieman, K., Schiavazzi, D. E., Marsden, A. L.
2025; 271: 108951
- **Artificial intelligence-based accurate myocardial infarction mapping using 12-lead electrocardiography** *EUROPEAN HEART JOURNAL - DIGITAL HEALTH*

Wang, H., Gao, Z., Zhang, H., Zhu, Y., Lian, S., Bo, K., Li, S., Gao, Y., Zhuang, B., Zhou, Z., Zhang, X., Wang, C., Nieman, et al
2025

- **Cardiac Computed Tomography for Prosthetic Heart Valve Assessment: An Expert Consensus Document of the Society of Cardiovascular Computed Tomography (SCCT), the American College of Cardiology (ACC), the European Society of Cardiovascular Radiology (ESCR), the North American Society of Cardiovascular Imaging (NASCI), the Radiological Society of North America (RSNA), the Society for Cardiovascular Angiography & Interventions (SCAI) and Society of Thoracic Surgeons (STS).** *Journal of the American College of Cardiology*
Budde, R. P., Faure, M. E., Abbara, S., Alkadhi, H., Cremer, P. C., Feuchtner, G. M., Gonzales, H. M., Kiefer, T. L., Leipsic, J., Nieman, K., Revels, J., Wang, D. D., Williamson, et al
2025
- **Cardiac Computed Tomography for Prosthetic Heart Valve Assessment. An Expert Consensus Document of the Society of Cardiovascular Computed Tomography (SCCT), the American College of Cardiology (ACC), the European Society of Cardiovascular Radiology (ESCR), the North American Society of Cardiovascular Imaging (NASCI), the Radiological Society of North America (RSNA), the Society for Cardiovascular Angiography & Interventions (SCAI), and Society of Thoracic Surgeons (STS)**1,2. *Radiology. Cardiothoracic imaging*
Budde, R. P., Faure, M. E., Abbara, S., Alkadhi, H., Cremer, P. C., Feuchtner, G. M., Gonzales, H. M., Kiefer, T. L., Leipsic, J., Nieman, K., Revels, J., Wang, D. D., Williamson, et al
2025; 7 (3): e250231
- **Coronary Computed Tomography Angiography to Guide Percutaneous Coronary Intervention: Expert Opinion from a SCAI/SCCT Roundtable.** *Journal of the Society for Cardiovascular Angiography & Interventions*
Sandoval, Y., Leipsic, J. A., Collet, C., Ali, Z. A., Azzalini, L., Barbato, E., Cavalcante, J. L., Costa, R. A., Garcia-Garcia, H. M., Jones, D. A., Khoo, J. K., Maran, A., Nieman, et al
2025; 4 (6): 103664
- **Cardiac computed tomography for prosthetic heart valve assessment. An expert consensus document of the Society of Cardiovascular Computed Tomography (SCCT), the American College of Cardiology (ACC), the European Society of Cardiovascular Radiology (ESCR), the North American Society of Cardiovascular Imaging (NASCI), the Radiological Society of North America (RSNA), the Society for Cardiovascular Angiography & Interventions (SCAI) and Society of Thoracic Surgeons (STS).** *Journal of cardiovascular computed tomography*
Budde, R. P., Faure, M. E., Abbara, S., Alkadhi, H., Cremer, P. C., Feuchtner, G. M., Gonzales, H. M., Kiefer, T. L., Leipsic, J., Nieman, K., Revels, J., Wang, D. D., Williamson, et al
2025
- **Coronary computed tomography angiography to guide percutaneous coronary intervention: Expert opinion from a SCAI/SCCT roundtable.** *Journal of cardiovascular computed tomography*
Sandoval, Y., Leipsic, J., Collet, C., Ali, Z. A., Azzalini, L., Barbato, E., Cavalcante, J. L., Costa, R. A., Garcia-Garcia, H. M., Jones, D. A., Khoo, J. K., Maran, A., Nieman, et al
2025
- **Photon-Counting Detector Coronary CT Angiography A Confidence Booster for Bloomy Vessels** *JACC-CARDIOVASCULAR IMAGING*
Nieman, K., Chandrashekhar, Y.
2025; 18 (5): 621-623
- **Prognostic Value of Compact Myocardial Thinning in Patients with Left Ventricular Non-compaction.** *The American journal of cardiology*
Gegenava, T., Tukker, M., Caliskan, K., Hirsch, A., Manohar, A., Lee, S. P., Owens, A., Kwon, D. H., Ramchand, J., Wheeler, M. T., Tang, W. H., Nieman, K.
2025
- **THE PROGNOSTIC VALUE OF COMPACT MYOCARDIAL THINNING IN PATIENTS WITH LEFT VENTRICULAR NON-COMPACTION**
Gegenava, T., Tukker, M., Caliskan, K., Hirsch, A., Lee, S., Owens, A., Kwon, D., Ramchand, J., Wheeler, M., Tang, W., Nieman, K.
ELSEVIER SCIENCE INC.2025: 1981
- **Left atrial volumetric/mechanical coupling index: best of both worlds?** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
Gegenava, T., Nieman, K.
2024
- **Coronary atherosclerotic plaque characterization with silicon-based photon-counting computed tomography (CT): A simulation-based feasibility study.** *Medical physics*
Li, M., Wu, M., Pack, J., Wu, P., Yan, P., De Man, B., Wang, A., Nieman, K., Wang, G.
2024

- **Personalized and uncertainty-aware coronary hemodynamics simulations: From Bayesian estimation to improved multi-fidelity uncertainty quantification.** *ArXiv*
Menon, K., Zanon, A., Khan, O., Geraci, G., Nieman, K., Schiavazzi, D. E., Marsden, A. L.
2024
- **Artificial intelligence and machine learning for cardiovascular computed tomography (CCT): A white paper of the society of cardiovascular computed tomography (SCCT).** *Journal of cardiovascular computed tomography*
Williams, M. C., Weir-McCall, J. R., Baldassarre, L. A., De Cecco, C. N., Choi, A. D., Dey, D., Dweck, M. R., Isgum, I., Kolossvary, M., Leipsic, J., Lin, A., Lu, M. T., Motwani, et al
2024
- **CT Myocardial Perfusion and CT-FFR versus Invasive FFR for Hemodynamic Relevance of Coronary Artery Disease.** *Radiology*
Soschynski, M., Storelli, R., Birkemeyer, C., Hagar, M. T., Faby, S., Schwemmer, C., Nous, F. M., Pugliese, F., Vliegenthart, R., Schlett, C. L., Nikolaou, K., Krumm, P., Nieman, et al
2024; 312 (2): e233234
- **Completeness of revascularization by FFRCT in stable angina: Association to adverse cardiovascular outcomes.** *Journal of cardiovascular computed tomography*
Madsen, K. T., Norgaard, B. L., Ovrehus, K. A., Jensen, J. M., Parner, E., Grove, E. L., Mortensen, M. B., Iraqi, N., Fairbairn, T. A., Nieman, K., Patel, M. R., Rogers, C., Mullen, et al
2024
- **Standards for quantitative assessments by coronary computed tomography angiography (CCTA): An expert consensus document of the society of cardiovascular computed tomography (SCCT).** *Journal of cardiovascular computed tomography*
Nieman, K., García-García, H. M., Hideo-Kajita, A., Collet, C., Dey, D., Pugliese, F., Weissman, G., Tijssen, J. G., Leipsic, J., Opolski, M. P., Ferencik, M., Lu, M. T., Williams, et al
2024
- **Quantification and Visualization of CT Myocardial Perfusion Imaging to Detect Ischemia-Causing Coronary Arteries.** *IEEE transactions on medical imaging*
Khan, M. O., Seresti, A. A., Menon, K., Marsden, A. L., Nieman, K.
2024; PP
- **Personalized coronary and myocardial blood flow models incorporating CT perfusion imaging and synthetic vascular trees.** *Npj imaging*
Menon, K., Khan, M. O., Sexton, Z. A., Richter, J., Nguyen, P. K., Malik, S. B., Boyd, J., Nieman, K., Marsden, A. L.
2024; 2 (1): 9
- **Atherosclerosis evaluation and cardiovascular risk estimation using coronary computed tomography angiography.** *European heart journal*
Nurmohamed, N. S., van Rosendaal, A. R., Danad, I., Ngo-Metzger, Q., Taub, P. R., Ray, K. K., Figtree, G., Bonaca, M. P., Hsia, J., Rodriguez, F., Sandhu, A. T., Nieman, K., Earls, et al
2024
- **Interaction of AI-Enabled Quantitative Coronary Plaque Volumes on Coronary CT Angiography, FFRCT, and Clinical Outcomes: A Retrospective Analysis of the ADVANCE Registry.** *Circulation. Cardiovascular imaging*
Dundas, J., Leipsic, J., Fairbairn, T., Ng, N., Sussman, V., Guez, I., Rosenblatt, R., Hurwitz Koweek, L. M., Douglas, P. S., Rabbat, M., Pontone, G., Chinnaiyan, K., de Bruyne, et al
2024: e016143
- **Coronary computed tomography angiography derived fractional flow reserve and risk of recurrent angina: A 3-year follow-up study.** *Journal of cardiovascular computed tomography*
Madsen, K. T., Norgaard, B. L., Ovrehus, K. A., Jensen, J. M., Parner, E., Grove, E. L., Mortensen, M. B., Fairbairn, T. A., Nieman, K., Patel, M. R., Rogers, C., Mullen, S., Mickley, et al
2024
- **Quantitative metrics of the LV trabeculated layer by cardiac CT and cardiac MRI in patients with suspected noncompaction cardiomyopathy.** *European radiology*
Manohar, A., Vigneault, D. M., Kwon, D. H., Caliskan, K., Budde, R. P., Hirsch, A., Lee, S. P., Lee, W., Owens, A., Litt, H., Haddad, F., Mistelbauer, G., Wheeler, et al
2023
- **Deep Learning-based Prediction of Percutaneous Recanalization in Chronic Total Occlusion Using Coronary CT Angiography.** *Radiology*
Zhou, Z., Gao, Y., Zhang, W., Zhang, N., Wang, H., Wang, R., Gao, Z., Huang, X., Zhou, S., Dai, X., Yang, G., Zhang, H., Nieman, et al

2023; 309 (2): e231149

- **Coronary CT Angiography- Derived Fractional Flow Reserve and Risk of Recurrent Angina in Stable Coronary Artery Disease: A 3-Year Follow-up Study**
Madsen, K., Norgaard, B., Ovrehus, K., Jensen, J., Parner, E., Grove, E., Mortensen, M., Iraqi, N., Nieman, K., Patel, M., Rogers, C., Mullen, S., Mickley, et al
ELSEVIER SCIENCE INC.2023: B172
- **Prognostic Value of Combined Coronary CT Angiography-Derived Fractional Flow Reserve and Quantitative Plaque Analysis in Patients With Stable Angina**
Madsen, K., Norgaard, B., Ovrehus, K., Jensen, J., Parner, E., Grove, E., Mortensen, M., Iraqi, N., Nieman, K., Patel, M., Rogers, C., Mullen, S., Mickley, et al
ELSEVIER SCIENCE INC.2023: B173
- **Prognostic Value of Coronary CT Angiography-derived Fractional Flow Reserve on 3-year Outcomes in Patients with Stable Angina. *Radiology***
Madsen, K. T., Nørgaard, B. L., Øvrehus, K. A., Jensen, J. M., Parner, E., Grove, E. L., Fairbairn, T. A., Nieman, K., Patel, M. R., Rogers, C., Mullen, S., Mickley, H., Rohold, et al
2023; 308 (3): e230524
- **Personalized coronary and myocardial blood flow models incorporating CT perfusion imaging and synthetic vascular trees. *medRxiv : the preprint server for health sciences***
Menon, K., Khan, M. O., Sexton, Z. A., Richter, J., Nieman, K., Marsden, A. L.
2023
- **Exercise electrocardiography for pre-test assessment of the likelihood of coronary artery disease. *Heart (British Cardiac Society)***
Rasmussen, L. D., Schmidt, S. E., Knuuti, J., Newby, D. E., Singh, T., Nieman, K., Galema, T. W., Vrints, C., Bøttcher, M., Winther, S.
2023
- **Myocardial CT Perfusion Imaging in 2023 *JACC-CARDIOVASCULAR IMAGING***
Nieman, K., Chandrashekhar, Y.
2023; 16 (7): 1000-1002
- **Coronary Volume to Left Ventricular Mass Ratio in Patients With Hypertension. *The American journal of cardiology***
van Rosendaal, S. E., van Rosendaal, A. R., Kuneman, J. H., Patel, M. R., Norgaard, B. L., Fairbairn, T. A., Nieman, K., Akasaka, T., Berman, D. S., Koweek, L. M., Pontone, G., Kawasaki, T., Sand, et al
2023
- **Influence of Obesity on Coronary Artery Disease and Clinical Outcomes in the ADVANCE Registry. *Circulation. Cardiovascular imaging***
Lowenstern, A., Ng, N., Takagi, H., Rymer, J. A., Koweek, L. M., Douglas, P. S., Duran, J. M., Rabbat, M., Pontone, G., Fairbairn, T., Chinnaiyan, K., Berman, D. S., De Bruyne, et al
2023; 16 (5): e014850
- **Computed tomographic angiography in coronary artery disease. *EuroIntervention : journal of EuroPCR in collaboration with the Working Group on Interventional Cardiology of the European Society of Cardiology***
Serruys, P. W., Kotoku, N., Nørgaard, B. L., Garg, S., Nieman, K., Dweck, M. R., Bax, J. J., Knuuti, J., Narula, J., Perera, D., Taylor, C. A., Leipsic, J. A., Nicol, et al
2023; 18 (16): e1307-e1327
- **Prediction of Coronary Artery Calcium Using Deep Learning of Echocardiograms. *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography***
Yuan, N., Kwan, A. C., Duffy, G., Theurer, J., Chen, J. H., Nieman, K., Botting, P., Dey, D., Berman, D. S., Cheng, S., Ouyang, D.
2022
- **Role of cardiac imaging in acute chest pain. *The British journal of radiology***
Koh, N., Nieman, K.
2022: 20220307
- **2022 ASNC/AAPM/SCCT/SNMMI guideline for the use of CT in hybrid nuclear/CT cardiac imaging. *Journal of nuclear cardiology : official publication of the American Society of Nuclear Cardiology***
Al-Mallah, M. H., Bateman, T. M., Branch, K. R., Crean, A., Gingold, E. L., Thompson, R. C., McKenney, S. E., Miller, E. J., Murthy, V. L., Nieman, K., Villines, T. C., Yester, M. V., Einstein, et al

2022

- **Pre-procedural planning of coronary revascularization by cardiac computed tomography.** *Journal of cardiovascular computed tomography*
Andreini, D., Collet, C., Leipsic, J., Nieman, K., Bittencurt, M., De Mey, J., Buls, N., Onuma, Y., Mushtaq, S., Conte, E., Bartorelli, A. L., Stefanini, G., Sonck, et al
2022
- **Pre-procedural Planning of Coronary Revascularization by Cardiac Computed Tomography : An Expert Consensus Document of the Society of Cardiovascular Computed Tomography.** *EuroIntervention : journal of EuroPCR in collaboration with the Working Group on Interventional Cardiology of the European Society of Cardiology*
Andreini, D., Collet, C., Leipsic, J., Nieman, K., Bittencurt, M., De Mey, J., Buls, N., Onuma, Y., Mushtaq, S., Conte, E., Bartorelli, A. L., Stefanini, G., Sonck, et al
2022
- **Blood flow modeling reveals improved collateral artery performance during the regenerative period in mammalian hearts.** *Nature cardiovascular research*
Anbazhakan, S., Rios Coronado, P. E., Sy-Quia, A. N., Seow, L. W., Hands, A. M., Zhao, M., Dong, M. L., Pfaller, M. R., Amir, Z. A., Raftrey, B. C., Cook, C. K., D'Amato, G., Fan, et al
2022; 1 (8): 775-790
- **Great debates in cardiac computed tomography: OPINION: "Artificial intelligence is key to the future of CCTA - The great hope".** *Journal of cardiovascular computed tomography*
Motwani, M., Williams, M. C., Nieman, K., Choi, A. D.
2022
- **Recommendations for Multimodality Cardiovascular Imaging of Patients with Hypertrophic Cardiomyopathy: An Update from the American Society of Echocardiography, in Collaboration with the American Society of Nuclear Cardiology, the Society for Cardiovascular Magnetic Resonance, and the Society of Cardiovascular Computed Tomography.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
Nagueh, S. F., Phelan, D., Abraham, T., Armour, A., Desai, M. Y., Dragulescu, A., Gilliland, Y., Lester, S. J., Maldonado, Y., Mohiddin, S., Nieman, K., Sperry, B. W., Woo, et al
2022; 35 (6): 533-569
- **Implications of the 2021 AHA/ACC/AASE/CHEST/SAEM/SCCT/SCMR Chest Pain Guideline for Cardiovascular Imaging: A Multisociety Viewpoint.** *JACC. Cardiovascular imaging*
Blankstein, R., Shaw, L. J., Gulati, M., Atalay, M. K., Bax, J., Calnon, D. A., Dyke, C. K., Ferencik, M., Heitner, J. F., Henry, T. D., Hung, J., Knutti, J., Lindner, et al
2022; 15 (5): 912-926
- **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., Zanley, 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., Ithdayhid, 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.
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- **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*
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