



Martin (Marinus) Willemink

Instructor, Radiology

Bio

BIO

As a physician, epidemiologist, biomedical engineer and scientist, I am optimizing healthcare by translating clinical needs into technical solutions. I am working at Stanford University and have 8 years of research and clinical experience in radiology.

My clinical experience as a physician in diagnostic radiology and research experience in the field of cardiovascular and chest imaging allow me to recognize medical shortcomings. While my technical background with a PhD (cum laude) in the application of medical image reconstruction allows me to solve these with adequate technical solutions.

I have leadership experience from active involvement in multiple (inter)national scientific organizations, co-directing educational courses, and supervising >15 graduate students.

I have published >70 peer-reviewed papers, have been invited to present >15 lectures at international scientific meetings, am a Fulbright laureate and received >\$300,000 of funding from the American Heart Association, Philips Healthcare, Stanford University and more. I am designated as a Fellow of the Society of Cardiovascular Computed Tomography (SCCT), co-director of the UMC Utrecht Spectral CT Academy, and an active member of multiple European and North American clinical scientific societies. My work has been recognized with awards from the Radiological Society of North America, European Society of Radiology, Society of Thoracic Radiology, European Society of Thoracic Imaging, among others.

ACADEMIC APPOINTMENTS

- Instructor, Radiology

HONORS AND AWARDS

- Introduction to Academic Radiology for Scientists (ITARSc 2019) Program Awardee, Radiological Society of North America (RSNA) (2019)
- AHA Postdoctoral Fellowship Grant (18POST34030192), American Heart Association (AHA) (2018-2020)
- Stanford-Philips Fellowship Training Award, Stanford University / Philips Healthcare (2018)
- Stanford Cardiovascular Institute Travel Award, Stanford University (September 2017)
- Frederik Philips Prize 2016, Philips Healthcare (September 2016)
- ImagO Best Thesis Award, Graduate Programme Medical Imaging (ImagO), Utrecht University (May 2016)
- European Radiology Most Cited Paper Award 2013, European Society of Radiology (March 2016)
- Niels Stensen Fellowship, Niels Stensen Fellowship (October 2015)

- Cum Laude PhD Thesis, Utrecht University (June 2015)
- Award for Best Oral Presentation by a Resident, Society of Thoracic Imaging Annual Meeting 2015, Carlsbad, CA (March 2015)
- Conference Travel Grant, Circulatory Health, UMC Utrecht (February 2015)
- Fulbright Scholarship, Fulbright Center (April 2014)
- Jack Westcott Award, Society of Thoracic Imaging Annual Meeting 2014, San Antonio, USA (March 2014)
- Research Travel Grant, Circulatory Health, UMC Utrecht (March 2014)
- Van Wijck-Stam-Caspers Fund for Cardiovascular Research, Van Wijck-Stam-Caspers Fund for Cardiovascular Research (October 2013)
- European Society of Thoracic Imaging Travel Grant, European Society of Thoracic Imaging (September 2013)
- Radiological Society of the Netherlands Travel Grant, 18de Radiologendagen, Den Bosch, The Netherlands (September 2013)
- Magna Cum Laude Award for Oral Presentation, 3rd World Congress of Thoracic Imaging in Seoul, Korea (June 2013)
- Young Investigator Scholarship, World Congress of Thoracic Imaging (June 2013)
- Cum Laude Award for Oral Presentation, 20th Annual Meeting of the European Society of Thoracic Imaging in London, UK (June 2012)
- Nomination for the Professor Rein Zwierstra Award for best clinical lesson of the academic year, University of Groningen (September 2011)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member of the Radiology & Imaging Clinical Science Peer Review Committee (Reviewer-in-Training), American Heart Association (AHA) (2019 - present)
- Member/Faculty, American Roentgen Ray Society (ARRS) (2019 - present)
- Member/Faculty, Society of Computed Body Tomography & Magnetic Resonance (SCBT-MR) (2019 - present)
- Junior Deputy Editor at European Radiology, European Society of Radiology (ESR) (2019 - present)
- Member/Faculty, North American Society for Cardiovascular Imaging (NASCI) (2018 - present)
- Fellow of the Society of Cardiovascular Computed Tomography (FSCCT), Society of Cardiovascular Computed Tomography (SCCT) (2018 - present)
- Trainee Member, American Heart Association (AHA) (2017 - present)
- Co-director of the Spectral CT Academy, UMC Utrecht, The Netherlands (2016 - present)
- Member of the Fellow and Resident Leaders Committee (FiRST), Society for Cardiovascular Computed Tomography (SCCT) (2015 - 2017)
- Member of the Imaging Techniques Course Committee, Radiological Society of The Netherlands (2015 - 2017)
- Member in Training, European Society of Radiology (ESR) (2013 - present)
- Member in Training, Radiological Society of North America (RSNA) (2012 - present)

PROFESSIONAL EDUCATION

- Ph.D. (cum laude), Utrecht University , Life Sciences (2015)
- M.Sc. (GPA 4.0), Utrecht University , Clinical Epidemiology (2014)
- M.D. (GPA 4.0), University of Groningen , Medicine (2011)
- B.Sc., Twente University , Biomedical Engineering (2006)

LINKS

- LinkedIn: <https://www.linkedin.com/in/martin-willemink>
- Research Gate: https://www.researchgate.net/profile/Martin_Willemink
- Google Scholar Citations: https://scholar.google.com/citations?view_op=list_works&hl=en&gmla=AJSN-F4SbtyvBEFQvCXLiRnjwLu7_bIqxztEILYAlxGEwJR5cNH00Ye987hlzrSuqdQA56G2FHwDYmGv8QGepprh13UZd8MJwLIXFA_PS8fXtOi0u83Ps&user=82gFvkMAAA
- Publons: <https://publons.com/author/1132629/martin-willemink>

Publications

PUBLICATIONS

- **Artificial Intelligence and Machine Learning in Radiology: Current State and Considerations for Routine Clinical Implementation.** *Investigative radiology*
Wichmann, J. L., Willemink, M. J., De Cecco, C. N.
2020; 55 (9): 619–27
- **At the heart of innovation: cardiac imaging in 2019.** *European radiology*
Willemink, M. J.
2020
- **The Project Baseline Health Study: a step towards a broader mission to map human health** *NPJ DIGITAL MEDICINE*
Arges, K., Assimes, T., Bajaj, V., Balu, S., Bashir, M. R., Beskow, L., Blanco, R., Califf, R., Campbell, P., Carin, L., Christian, V., Cousins, S., Das, et al
2020; 3 (1): 84
- **Preparing Medical Imaging Data for Machine Learning.** *Radiology*
Willemink, M. J., Koszek, W. A., Hardell, C., Wu, J., Fleischmann, D., Harvey, H., Folio, L. R., Summers, R. M., Rubin, D. L., Lungren, M. P.
2020: 192224
- **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
- **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
- **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., Willemink, 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., Willemink, M. J., Nieman, K.
2019; 12 (6)
- **Aortic growth and development of partial false lumen thrombosis are associated with late adverse events in type B aortic dissection.** *The Journal of thoracic and cardiovascular surgery*
Higashigaito, K., Sailer, A. M., van Kuijk, S. M., Willemink, M. J., Hahn, L. D., Hastie, T. J., Miller, D. C., Fischbein, M. P., Fleischmann, D.
2019
- **Photon-counting CT: Technical Principles and Clinical Prospects** *RADIOLOGY*
Willemink, M. J., Persson, M., Pourmorteza, A., Pelc, N., Fleischmann, D.
2018; 289 (2): 293–312
- **The impact of dose reduction on the quantification of coronary artery calcifications and risk categorization: A systematic review** *JOURNAL OF CARDIOVASCULAR COMPUTED TOMOGRAPHY*
Vonder, M., van der Werf, N. R., Leiner, T., Greuter, M. W., Fleischmann, D., Vliegthart, R., Oudkerk, M., Willemink, M. J.
2018; 12 (5): 352–63
- **PREDICTING MORTALITY WITH AORTOMITRAL CALCIFICATIONS IN 317 TAVR PATIENTS**
Willemink, M., Maret, E., Moneghetti, K., Kim, J., Haddad, F., Kobayashi, Y., Higashigaito, K., Yeung, A., Lee, A., Miller, D., Fischbein, M., Fearon, W., Fleischmann, et al
ELSEVIER SCIENCE INC.2018: 1591
- **THE PROGNOSTIC VALUE OF COMPUTED TOMOGRAPHY FRAILITY MEASURES FOR PROLONGED HOSPITAL STAY AFTER TAVR IN 429 PATIENTS**
Maret, E., Willemink, M., Moneghetti, K., Kim, J., Haddad, F., Kobayashi, Y., Miller, C., Yeung, A., Fishbein, M., Fearon, W., Fleischmann, D.
ELSEVIER SCIENCE INC.2018: 1414

- **Radiation dose reduction for CT assessment of urolithiasis using iterative reconstruction: A prospective intra-individual study.** *European radiology*
den Harder, A. M., Willemink, M. J., van Doormaal, P. J., Wessels, F. J., Lock, M. T., Schilham, A. M., Budde, R. P., Leiner, T., de Jong, P. A.
2018; 28 (1): 143–50
- **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. J., Koweek, L. M., Fleischmann, D.
2018
- **Emphysema quantification using chest CT: influence of radiation dose reduction and reconstruction technique.** *European radiology experimental*
den Harder, A. M., de Boer, E., Lagerweij, S. J., Boomsma, M. F., Schilham, A. M., Willemink, M. J., Milles, J., Leiner, T., Budde, R. P., de Jong, P. A.
2018; 2 (1): 30
- **The evolution of image reconstruction for CT-from filtered back projection to artificial intelligence.** *European radiology*
Willemink, M. J., Noël, P. B.
2018
- **Acute Limited Intimal Tears of the Thoracic Aorta.** *Journal of the American College of Cardiology*
Chin, A. S., Willemink, M. J., Kino, A., Hinostraza, V., Sailer, A. M., Fischbein, M. P., Mitchell, R. S., Berry, G. J., Miller, D. C., Fleischmann, D.
2018; 71 (24): 2773–85
- **Contrast agent concentration optimization in CTA using low tube voltage and dual-energy CT in multiple vendors: a phantom study.** *The international journal of cardiovascular imaging*
van Hamersvelt, R. W., Eijssvoogel, N. G., Muhl, C., de Jong, P. A., Schilham, A. M., Buls, N., Das, M., Leiner, T., Willemink, M. J.
2018
- **Cardiac imaging to detect coronary artery disease in athletes aged 35 years and older. A scoping review.** *Scandinavian journal of medicine & science in sports*
Braber, T. L., Reitsma, J. B., Mosterd, A., Willemink, M. J., Prakken, N. H., Halle, M., Sharma, S., Velthuis, B. K.
2018; 28 (3): 1036–47
- **Influence of dose reduction and iterative reconstruction on CT calcium scores: a multi-manufacturer dynamic phantom study.** *The international journal of cardiovascular imaging*
van der Werf, N. R., Willemink, M. J., Willems, T. P., Greuter, M. J., Leiner, T.
2017
- **Influence of heart rate on coronary calcium scores: a multi-manufacturer phantom study.** *The international journal of cardiovascular imaging*
van der Werf, N. R., Willemink, M. J., Willems, T. P., Vliegenthart, R., Greuter, M. J., Leiner, T.
2017
- **Influence of iterative reconstruction on coronary calcium scores at multiple heart rates: a multivendor phantom study on state-of-the-art CT systems.** *The international journal of cardiovascular imaging*
van der Werf, N. R., Willemink, M. J., Willems, T. P., Greuter, M. J., Leiner, T.
2017
- **The Effects of Iodine Attenuation on Pulmonary Nodule Volumetry using Novel Dual-Layer Computed Tomography Reconstructions.** *European radiology*
den Harder, A. M., Bangert, F., van Hamersvelt, R. W., Leiner, T., Milles, J., Schilham, A. M., Willemink, M. J., de Jong, P. A.
2017; 27 (12): 5244–51
- **Accuracy of bone mineral density quantification using dual-layer spectral detector CT: a phantom study.** *European radiology*
van Hamersvelt, R. W., Schilham, A. M., Engelke, K., den Harder, A. M., de Keizer, B., Verhaar, H. J., Leiner, T., de Jong, P. A., Willemink, M. J.
2017
- **Accuracy of iodine quantification using dual energy CT in latest generation dual source and dual layer CT.** *European radiology*
Pelgrim, G. J., van Hamersvelt, R. W., Willemink, M. J., Schmidt, B. T., Flohr, T., Schilham, A., Milles, J., Oudkerk, M., Leiner, T., Vliegenthart, R.
2017
- **Aortic Valve and Thoracic Aortic Calcification Measurements: How Low Can We Go in Radiation Dose?** *Journal of computer assisted tomography*
van Hamersvelt, R. W., den Harder, A. M., Willemink, M. J., Schilham, A. M., Lammers, J. J., Nathoe, H. M., Budde, R. P., Leiner, T., de Jong, P. A.
2017; 41 (1): 148–55

- **Improving early diagnosis of pulmonary infections in patients with febrile neutropenia using low-dose chest computed tomography.** *PloS one*
Gerritsen, M. G., Willemink, M. J., Pompe, E., van der Bruggen, T., van Rhenen, A., Lammers, J. W., Wessels, F., Sprengers, R. W., de Jong, P. A., Minnema, M. C.
2017; 12 (2): e0172256
- **Feasibility and accuracy of dual-layer spectral detector computed tomography for quantification of gadolinium: a phantom study.** *European radiology*
van Hamersvelt, R. W., Willemink, M. J., de Jong, P. A., Milles, J., Vlassenbroek, A., Schilham, A. M., Leiner, T.
2017
- **Submillisievert coronary calcium quantification using model-based iterative reconstruction: A within-patient analysis.** *European journal of radiology*
den Harder, A. M., Wolterink, J. M., Willemink, M. J., Schilham, A. M., de Jong, P. A., Budde, R. P., Nathoe, H. M., Išgum, I., Leiner, T.
2016; 85 (11): 2152-2159
- **Inter-observer and inter-examination variability of manual vertebral bone attenuation measurements on computed tomography** *EUROPEAN RADIOLOGY*
Pompe, E., de Jong, P. A., de Jong, W. U., Takx, R. A., Eikendal, A. L., Willemink, M. J., Oudkerk, M., Budde, R. P., Lammers, J. J., Hoesein, F. A.
2016; 26 (9): 3046-3053
- **New horizons in cardiac CT** *CLINICAL RADIOLOGY*
den Harder, A. M., Willemink, M. J., de Jong, P. A., Schilham, A. M., Rajiah, P., Takx, R. A., Leiner, T.
2016; 71 (8): 758-767
- **Pulmonary Nodule Volumetry at Different Low Computed Tomography Radiation Dose Levels With Hybrid and Model-Based Iterative Reconstruction: A Within Patient Analysis** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
den Harder, A. M., Willemink, M. J., van Hamersvelt, R. W., Vonken, E. P., Schilham, A. M., Lammers, J. J., Luijk, B., Budde, R. P., Leiner, T., de Jong, P. A.
2016; 40 (4): 578-583
- **Cardiac CT Imaging of Plaque Vulnerability: Hype or Hope?** *CURRENT RADIOLOGY REPORTS*
Willemink, M. J., Leiner, T., Maurovich-Horvat, P.
2016; 18 (4)
- **Assessment of Coronary Artery Calcium on Low-Dose Coronary Computed Tomography Angiography With Iterative Reconstruction** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Braber, T. L., Willemink, M. J., Bohte, E. H., Mosterd, A., Leiner, T., Velthuis, B. K.
2016; 40 (2): 266-271
- **Effect of radiation dose reduction and iterative reconstruction on computer-aided detection of pulmonary nodules: Intra-individual comparison** *EUROPEAN JOURNAL OF RADIOLOGY*
den Harder, A. M., Willemink, M. J., van Hamersvelt, R. W., Vonken, E. P., Milles, J., Schilham, A. M., Lammers, J., de Jong, P. A., Leiner, T., Budde, R. P.
2016; 85 (2): 346-359
- **Finding the optimal dose reduction and iterative reconstruction level for coronary calcium scoring** *JOURNAL OF CARDIOVASCULAR COMPUTED TOMOGRAPHY*
Willemink, M. J., den Harder, A. M., Foppen, W., Schilham, A. M., Rienks, R., Laufer, E. M., Nieman, K., de Jong, P. A., Budde, R. P., Nathoe, H. M., Leiner, T.
2016; 10 (1): 69-75
- **Dual energy CT to reveal pseudo leakage of frozen elephant trunk.** *Journal of cardiovascular computed tomography*
van Hamersvelt, R. W., de Jong, P. A., Dessing, T. C., Leiner, T., Willemink, M. J.
2016
- **Dose reduction with iterative reconstruction for coronary CT angiography: a systematic review and meta-analysis** *BRITISH JOURNAL OF RADIOLOGY*
den Harder, A. M., Willemink, M. J., de Ruiter, Q. M., de Jong, P. A., Schilham, A. M., Krestin, G. P., Leiner, T., Budde, R. P.
2016; 89 (1058)
- **Do carotid MR surface coils affect PET quantification in PET/MR imaging?** *EJNMMI physics*
Willemink, M. J., Eldib, M., Leiner, T., Fayad, Z. A., Mani, V.
2015; 2: A34-?
- **Improving head and neck CTA with hybrid and model-based iterative reconstruction techniques** *CLINICAL RADIOLOGY*
Niessen, J. M., van der Schaaf, I. C., Vos, P. C., Willemink, M. J., Velthuis, B. K.
2015; 70 (11): 1252-1259

- **Achievable dose reduction using iterative reconstruction for chest computed tomography: A systematic review** *EUROPEAN JOURNAL OF RADIOLOGY*
den Harder, A. M., Willemink, M. J., de Ruiter, Q. M., Schilham, A. M., Krestin, G. P., Leiner, T., de Jong, P. A., Budde, R. P.
2015; 84 (11): 2307-2313
- **Coronary calcium scores are systematically underestimated at a large chest size: A multivendor phantom study** *JOURNAL OF CARDIOVASCULAR COMPUTED TOMOGRAPHY*
Willemink, M. J., Abramiuc, B., den Harder, A. M., van der Werf, N. R., de Jong, P. A., Budde, R. P., Wildberger, J. E., Vliegenthart, R., Willems, T. P., Greuter, M. J., Leiner, T.
2015; 9 (5): 415-421
- **Prognostic value of heart valve calcifications for cardiovascular events in a lung cancer screening population** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Willemink, M. J., Takx, R. A., Isgum, I., de Koning, H. J., Oudkerk, M., Mali, W. P., Budde, R. P., Leiner, T., Vliegenthart, R., de Jong, P. A.
2015; 31 (6): 1243-1249
- **Incidental necropsy finding of a quadricuspid aortic valve** *CARDIOVASCULAR PATHOLOGY*
van Rijswijk, J. W., Willemink, M. J., Kluin, J., Vink, A.
2015; 24 (4): 258-259
- **New Applications of Cardiac Computed Tomography Dual-Energy, Spectral, and Molecular CT Imaging** *JACC-CARDIOVASCULAR IMAGING*
Danad, I., Fayad, Z. A., Willemink, M. J., Min, J. K.
2015; 8 (6): 710-723
- **Interscan variation of semi-automated volumetry of subsolid pulmonary nodules** *EUROPEAN RADIOLOGY*
Scholten, E. T., de Jong, P. A., Jacobs, C., van Ginneken, B., van Riel, S., Willemink, M. J., Vliegenthart, R., Oudkerk, M., de Koning, H. J., Horeweg, N., Prokop, M., Mali, W. P., Gietema, et al
2015; 25 (4): 1040-1047
- **Hybrid and Model-Based Iterative Reconstruction Techniques for Pediatric CT** *AMERICAN JOURNAL OF ROENTGENOLOGY*
den Harder, A. M., Willemink, M. J., Budde, R. P., Schilham, A. M., Leiner, T., de Jong, P. A.
2015; 204 (3): 645-653
- **Intravenous contrast injection significantly affects bone mineral density measured on CT** *EUROPEAN RADIOLOGY*
Pompe, E., Willemink, M. J., Dijkhuis, G. R., Verhaar, H. J., Hoesein, F. A., de Jong, P. A.
2015; 25 (2): 283-289
- **Quantification of coronary artery calcium in nongated CT to predict cardiovascular events in male lung cancer screening participants: Results of the NELSON study** *JOURNAL OF CARDIOVASCULAR COMPUTED TOMOGRAPHY*
Takx, R. A., Isgum, I., Willemink, M. J., van der Graaf, Y., de Koning, H. J., Vliegenthart, R., Oudkerk, M., Leiner, T., de Jong, P. A.
2015; 9 (1): 50-57
- **Coronary Artery Calcification Scoring with State-of-the-Art CT Scanners from Different Vendors Has Substantial Effect on Risk Classification** *RADIOLOGY*
Willemink, M. J., Vliegenthart, R., Takx, R. A., Leiner, T., Budde, R. P., Bleys, R. L., Das, M., Wildberger, J. E., Prokop, M., Buls, N., De Mey, J., Schilham, A. M., de Jong, et al
2014; 273 (3): 695-702
- **Computed Tomography Radiation Dose Reduction: Effect of Different Iterative Reconstruction Algorithms on Image Quality** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Willemink, M. J., Takx, R. A., de Jong, P. A., Budde, R. P., Bleys, R. L., Das, M., Wildberger, J. E., Prokop, M., Buls, N., De Mey, J., Leiner, T., Schilham, A. M.
2014; 38 (6): 815-823
- **The impact of CT radiation dose reduction and iterative reconstruction algorithms from four different vendors on coronary calcium scoring** *EUROPEAN RADIOLOGY*
Willemink, M. J., Takx, R. A., de Jong, P. A., Budde, R. P., Bleys, R. L., Das, M., Wildberger, J. E., Prokop, M., Buls, N., De Mey, J., Schilham, A. M., Leiner, T.
2014; 24 (9): 2201-2212
- **Dose reduction for coronary calcium scoring with hybrid and model-based iterative reconstruction: an ex vivo study** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
den Harder, A. M., Willemink, M. J., Bleys, R. L., de Jong, P. A., Budde, R. P., Schilham, A. M., Leiner, T.
2014; 30 (6): 1125-1133

- **Cardiac valve calcifications on low-dose unenhanced ungated chest computed tomography: inter-observer and inter-examination reliability, agreement and variability** *EUROPEAN RADIOLOGY*
van Hamersvelt, R. W., Willemink, M. J., Takx, R. A., Eikendal, A. L., Budde, R. P., Leiner, T., Mol, C. P., Isgum, I., de Jong, P. A.
2014; 24 (7): 1557-1564
- **The impact of a new model-based iterative reconstruction algorithm on prosthetic heart valve related artifacts at reduced radiation dose MDCT** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Sucha, D., Willemink, M. J., de Jong, P. A., Schilham, A. M., Leiner, T., Symersky, P., Budde, R. P.
2014; 30 (4): 785-793
- **Small Irregular Pulmonary Nodules in Low-Dose CT: Observer Detection Sensitivity and Volumetry Accuracy** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Xie, X., Willemink, M. J., de Jong, P. A., van Ooijen, P. M., Oudkerk, M., Vliegthart, R., Greuter, M. J.
2014; 202 (3): W202-W209
- **Coronary Artery Assessment on Electrocardiogram-Gated Thoracoabdominal Multidetector Computed Tomographic Angiography for Aortic Evaluation** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Willemink, M. J., Meijs, M. F., Cramer, M. J., Thijssen, A. S., Moll, F. L., de Jong, P. A., Leiner, T., Budde, R. P.
2014; 38 (2): 185-189
- **The effect of iterative reconstruction on quantitative computed tomography assessment of coronary plaque composition** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Takx, R. A., Willemink, M. J., Nathoe, H. M., Schilham, A. M., Budde, R. P., de Jong, P. A., Leiner, T.
2014; 30 (1): 155-163
- **[The future of the CT scan; will CT replace conventional radiography?].** *Nederlands tijdschrift voor geneeskunde*
Willemink, M. J., den Harder, A. M., de Jong, P. A., Leiner, T.
2014; 158: A7438-?
- **Inter- and intrascanner variability of pulmonary nodule volumetry on low-dose 64-row CT: an anthropomorphic phantom study** *BRITISH JOURNAL OF RADIOLOGY*
Xie, X., Willemink, M. J., Zhao, Y., de Jong, P. A., van Ooijen, P. M., Oudkerk, M., Greuter, M. J., Vliegthart, R.
2013; 86 (1029)
- **Pediatric Chest Computed Tomography at a Radiation Dose Approaching a Chest Radiograph** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Willemink, M. J., de Jong, P. A.
2013; 188 (5): 626-627
- **Re: Willemink MJ, van Es HW, Helmhout PH, et al. The effects of dynamic isolated lumbar extensor training on lumbar multifidus functional cross-sectional area and functional status of patients with chronic nonspecific low back pain. Spine 2012;37:E1651-8 Response** *SPINE*
Willemink, M. J., van Es, H. W., Helmhout, P. H., Kelder, J. C., van Heesewijk, J. M.
2013; 38 (18): 1611-12
- **Computer-Aided Segmentation and Volumetry of Artificial Ground-Glass Nodules at Chest CT** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Scholten, E. T., Jacobs, C., van Ginneken, B., Willemink, M. J., Kuhnigk, J., van Ooijen, P. M., Oudkerk, M., Mali, W. P., de Jong, P. A.
2013; 201 (2): 295-300
- **Iterative reconstruction techniques for computed tomography Part 1: Technical principles** *EUROPEAN RADIOLOGY*
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