

2018

PhD Dissertations

1. **Alberts AR.** (Graduate advisors: MJ Roobol-Bouts, **GP Krestin**, **IG Schoots**)
Magnetic Resonance Imaging and Multivariable Risk-stratification in Prostate Cancer Screening and Active Surveillance. PhD dissertation for Erasmus University Rotterdam/NL (10 January 2018)
2. **Bison SM.** (Graduate advisors: **M de Jong**, **MR Bernsen**, **MK Konijnenberg**)
Combination treatments and dose optimization to enhance peptide receptor radionuclide therapy. PhD dissertation for Erasmus University Rotterdam/NL (04 September 2018)
3. **Blokker BM.** (Graduate advisors: **MGM Hunink**, JW Oosterhuis, **AC Weustink**)
MIA: the Minimally Invasive Autopsy. PhD dissertation for Erasmus University Rotterdam/NL (14 April 2018)
4. **Cremers LGM.** (Graduate advisors: **MW Vernooij**, MA Ikram)
Structural Brain Connectivity in Aging and Neurodegeneration. PhD dissertation for Erasmus University Rotterdam/NL (26 June 2018)
5. **Fahkry F.** (Graduate advisors: **MGM Hunink**, EV Rouwet)
Treatment Strategies for Patients with Intermittent Claudication. PhD dissertation for Erasmus University Rotterdam/NL (19 December 2018)
6. **Huizinga W.** (Graduate advisors: **WJ Niessen**, **S Klein**, **D Poot**)
Advanced Image Analysis for modeling the aging brain. PhD dissertation for Erasmus University Rotterdam/NL (07 November 2018)
7. **Langen CD.** (Graduate advisors: **WJ Niessen**, **TJH White**)
Short circuit: how brain connectivity and disconnectivity relate to brain function. PhD dissertation for Erasmus University Rotterdam/NL (18 April 2018)
8. **Roshchupkin G.** (Graduate advisors: **WJ Niessen**, MA Ikram, **M Vernooij**)
Imaging genetics: Methodological approaches to overcoming high dimensional barriers. PhD dissertation for Erasmus University Rotterdam/NL (25 September 2018)
9. **Thomeer MGJ.** (Graduate advisors: **MGM Hunink**, HC van Doorn)
Abdominal MRI in women's health: advanced imaging. PhD dissertation for Erasmus University Rotterdam/NL (21 November 2018)
10. **van Driel PBAA.** (Graduate advisors: **CWGM Löwik**, AL Vahrmeijer, S Keereweer)
Fluorescence-Guided Therapy in Oncology Targeted imaging and photodynamic therapy. PhD dissertation for Erasmus University Rotterdam/NL (24 October 2018)
11. **van Gils MJ.** (Graduate advisors: **A van der Lugt**, DWJ Dippel)
Insight into Carotid Atherosclerotic Plaque Development with CT Angiography. PhD dissertation for Erasmus University Rotterdam/NL (19 January 2018)
12. **van der Heijden MJE.** (Graduate advisors: M van Dijk, **MGM Hunink**, J Jeekel)
Music in Medicine: the value of music interventions for hospitalised children. PhD dissertation for Erasmus University Rotterdam/NL (07 November 2018)
13. **van Opbroek AG.** (Graduate advisors: **WJ Niessen**, **M de Bruijne**)
Transfer Learning for Medical Image Segmentation. PhD dissertation for Erasmus University Rotterdam/NL (06 June 2018)

Patents

Kotek Gyula, Hernandez-Tamames Juan A. *Magnetic resonance imaging based on transient response signals.* App. No. EP18191501 Application in 2018

Marion de Jong. *Radiolabeled GRPR-Antagonists for Diagnostic Imaging and Treatment of GRPR-Positive Cancer.* App. No. 20180133349 granted May 17, 2018.

Peer-reviewed Journal Articles – First Author

1. **Arias Lorza AM, van Engelen A, Petersen J, van der Lugt A and de Bruijne M.** Maximization of regional probabilities using Optimal Surface Graphs: Application to carotid artery segmentation in MRI. *Med Phys* 2018;45:1159-1169.
2. **Arias-Lorza AM, Bos D, van der Lugt A and de Bruijne M.** Cooperative carotid artery centerline extraction in MRI. *PLoS One* 2018;13:e0197180.
3. **Arif M, Moelker A and van Walsum T.** Needle Tip Visibility in 3D Ultrasound Images. *Cardiovasc Intervent Radiol* 2018;41:145-152.
4. **Bakker IL, van Tiel ST, Haeck J, Doeswijk GN, de Blois E, Segbers M, Maina T, Nock BA, de Jong M and Dalm SU.** In Vivo Stabilized SB3, an Attractive GRPR Antagonist, for Pre- and Intra-Operative Imaging for Prostate Cancer. *Mol Imaging Biol* 2018;20:973-983.
5. **Bergsma H, van Lom K, Raaijmakers M, Konijnenberg M, Kam B, Teunissen JJM, de Herder WW, Krenning EP and Kwekkeboom DJ.** Persistent Hematologic Dysfunction after Peptide Receptor Radionuclide Therapy with (177)Lu-DOTATATE: Incidence, Course, and Predicting Factors in Patients with Gastroenteropancreatic Neuroendocrine Tumors. *J Nucl Med* 2018;59:452-458.
6. **Berkhemer O and van der Lugt A.** Extracranial Carotid Disease and Effect of Intra-arterial Treatment in Patients With Proximal Anterior Circulation Stroke. *Ann Intern Med* 2018;168:83-84.
7. **Blokker BM, Weustink AC, Wagenveld IM, von der Thusen JH, Pezzato A, Dammers R, Bakker J, Renken NS, den Bakker MA, van Kemenade FJ, Krestin GP, Hunink MGM and Oosterhuis JW.** Conventional Autopsy versus Minimally Invasive Autopsy with Postmortem MRI, CT, and CT-guided Biopsy: Comparison of Diagnostic Performance. *Radiology* 2018;289:658-667.
8. **Boccalini S, Swart LE, Bekkers JA, Nieman K, Krestin GP, Bogers AJ and Budde RP.** CT angiography for depiction of complications after the Bentall procedure. *Br J Radiol* 2018:20180226.
9. **Bos D, Bano A, Hofman A, VanderWeele TJ, Kavousi M, Franco OH, Vernooij MW, Peeters RP, Ikram MA and Chaker L.** Thyroid function and atrial fibrillation: Is there a mediating role for epicardial adipose tissue? *Clin Epidemiol* 2018;10:225-234.
10. **Bos D and Leening MJG.** Leveraging the coronary calcium scan beyond the coronary calcium score. *Eur Radiol* 2018;28:3082-3087.
11. **Bos D, Wolters FJ, Darweesh SKL, Vernooij MW, de Wolf F, Ikram MA and Hofman A.** Cerebral small vessel disease and the risk of dementia: A systematic review and meta-analysis of population-based evidence. *Alzheimers Dement* 2018;14:1482-1492.
12. **Chen KT, Ieritano C, Seimbille Y.** Early-Stage Incorporation Strategy for Regioselective Labeling of Peptides using the 2-Cyanobenzothiazole/1,2-Aminothiol Bioorthogonal Click Reaction. *ChemistryOpen* 2018;7:256-261.
13. **Cheplygina V, Pena IP, Pedersen JH, Lynch DA, Sorensen L and de Bruijne M.** Transfer Learning for Multicenter Classification of Chronic Obstructive Pulmonary Disease. *IEEE J Biomed Health Inform* 2018;22:1486-1496.
14. **Coenen A, Kim YH, Kruk M, Tesche C, De Geer J, Kurata A, Lubbers ML, Daemen J, Itu L, Rapaka S, Sharma P, Schwemmer C, Persson A, Schoepf UJ, Kepka C, Hyun Yang D and Nieman K.** Diagnostic Accuracy of a Machine-Learning Approach to Coronary Computed Tomographic Angiography-Based Fractional Flow Reserve: Result From the MACHINE Consortium. *Circ Cardiovasc Imaging* 2018;11:e007217.

15. **Compagne KCJ, Clephas PRD**, Majoie C, Roos Y, **Berkhemer OA**, van Oostenbrugge RJ, van Zwam WH, **van Es A**, Dippel DWJ, **van der Lugt A, Bos D** and MR CLEAN Investigators. Intracranial Carotid Artery Calcification and Effect of Endovascular Stroke Treatment. *Stroke* 2018;49:2961-2968.
16. **Compagne KCJ, van de Graaf RA and van der Lugt A**. Additional Factors Regarding Clinical Outcomes of General Anesthesia and Conscious Sedation for Acute Ischemic Stroke. *JAMA Neurol* 2018;75:1151.
17. **Compagne KCJ, van Es A, Berkhemer OA**, Borst J, Roos Y, van Oostenbrugge RJ, van Zwam WH, Majoie C, Marquering HA, Dippel DWJ, **van der Lugt A, Emmer BJ** and MR CLEAN Trial Investigators. Prevalence of Carotid Web in Patients with Acute Intracranial Stroke Due to Intracranial Large Vessel Occlusion. *Radiology* 2018;286:1000-1007.
18. **Cristobal-Huerta A, Poot DHJ**, Vogel MW, **Krestin GP and Hernandez-Tamames JA**. K-space trajectories in 3D-GRASE sequence for high resolution structural imaging. *Magn Reson Imaging* 2018;48:10-19.
19. **Croll PH**, Voortman T, Ikram MA, Franco OH, Schoufour JD, **Bos D and Vernooij MW**. Better diet quality relates to larger brain tissue volumes: The Rotterdam Study. *Neurology* 2018;90:e2166-e2173.
20. **de Blois E, de Zanger RMS**, Oehlke E, **Chan HS and Breeman WAP**. Semi-automated system for concentrating (68)Ga-eluate to obtain high molar and volume concentration of (68)Ga-Radiopharmaca for preclinical applications. *Nucl Med Biol* 2018;64-65:16-21.
21. **Dijkland SA**, Voormolen DC, Venema E, Roozenbeek B, Polinder S, Haagsma JA, Nieboer D, **Chalos V**, Yoo AJ, Schreuders J, **van der Lugt A**, Majoie C, Roos Y, van Zwam WH, van Oostenbrugge RJ, Steyerberg EW, Dippel DWJ, Lingsma HF and Investigators MC. Utility-Weighted Modified Rankin Scale as Primary Outcome in Stroke Trials: A Simulation Study. *Stroke* 2018;49:965-971.
22. **Drost FH**, Rannikko A, Valdagni R, Pickles T, Kakehi Y, Remmers S, van der Poel HG, Bangma CH, Roobol MJ and PRIAS study group. Can active surveillance really reduce the harms of overdiagnosing prostate cancer? A reflection of real life clinical practice in the PRIAS study. *Transl Androl Urol* 2018;7:98-105.
23. **Eijgenraam SM**, Reijman M, Bierma-Zeinstra SMA, van Yperen DT and Meuffels DE. Can we predict the clinical outcome of arthroscopic partial meniscectomy? A systematic review. *Br J Sports Med* 2018;52:514-521.
24. **Evans TE, Adams HHH**, Licher S, Wolters FJ, **van der Lugt A**, Ikram MK, O'Sullivan MJ, **Vernooij MW** and Ikram MA. Subregional volumes of the hippocampus in relation to cognitive function and risk of dementia. *Neuroimage* 2018;178:129-135.
25. **Fakhry F**, Fokkenrood HJ, Spronk S, Tejjink JA, Rouwet EV and **Hunink MGM**. Endovascular revascularisation versus conservative management for intermittent claudication. *Cochrane Database Syst Rev* 2018;3:CD010512.
26. **Faure ME, Swart LE, Dijkshoorn ML**, Bekkers JA, **van Straten M**, Nieman K, Parizel PM, **Krestin GP and Budde RPJ**. Advanced CT acquisition protocol with a third-generation dual-source CT scanner and iterative reconstruction technique for comprehensive prosthetic heart valve assessment. *Eur Radiol* 2018;28:2159-2168.
27. **Gotink RA, Vernooij MW**, Ikram MA, **Niessen WJ, Krestin GP**, Hofman A, Tiemeier H and **Hunink MGM**. Meditation and yoga practice are associated with smaller right amygdala volume: the Rotterdam study. *Brain Imaging Behav* 2018;12:1631-1639.
28. **Gunay G, van der Voort S, Luu MH, Moelker A and Klein S**. Local Image Registration Uncertainty Estimation Using Polynomial Chaos Expansions. *Biomedical Image Registration. WBIR 2018. Lecture Notes in Computer Science* 2018;10883:115-125.

29. **Guyader JM, Huizinga W, Fortunati V, Poot D, Veenland J**, Paulides MM, **Niessen W and Klein S**. Groupwise multi-channel image registration. *IEEE J Biomed Health Inform* 2018 [epub ahead of print].
30. **Guyader JM, Huizinga W, Poot DHJ**, van Kranenburg M, Uitterdijk A, **Niessen WJ and Klein S**. Groupwise image registration based on a total correlation dissimilarity measure for quantitative MRI and dynamic imaging data. *Sci Rep* 2018;8:13112.
31. **Hilal S, Ikram MA**, Verbeek MM, Franco OH, Stoops E, Vanderstichele H, **Niessen WJ and Vernooij MW**. C-Reactive Protein, Plasma Amyloid-beta Levels, and Their Interaction With Magnetic Resonance Imaging Markers. *Stroke*. 2018;49:2692-2698.
32. **Hilal S**, Tan CS, **Adams HHH**, Habes M, Mok V, Venketasubramanian N, Hofer E, Ikram MK, Abrigo J, **Vernooij MW**, Chen C, Hosten N, Volzke H, Grabe HJ, Schmidt R and **Ikram MA**. Enlarged perivascular spaces and cognition: A meta-analysis of 5 population-based studies. *Neurology* 2018;91:e832-e842.
33. **Hilal S**, Wolters FJ, Verbeek MM, Vanderstichele H, Ikram MK, Stoops E, **Ikram MA and Vernooij MW**. Plasma amyloid-beta levels, cerebral atrophy and risk of dementia: a population-based study. *Alzheimers Res Ther*. 2018;10:63.
34. **Huizinga W, Poot DHJ, Vernooij MW, Roshchupkin GV, Bron EE, Ikram MA**, Rueckert D, **Niessen WJ, Klein S** and Alzheimer's Disease Neuroimaging Initiative. A spatio-temporal reference model of the aging brain. *Neuroimage* 2018;169:11-22.
35. **Ikram MA, Zonneveld HI, Roshchupkin G**, Smith AV, Franco OH, Sigurdsson S, van Duijn C, Uitterlinden AG, Launer LJ, **Vernooij MW**, Gudnason V and **Adams HH**. Heritability and genome-wide associations studies of cerebral blood flow in the general population. *J Cereb Blood Flow Metab* 2018;38:1598-1608.
36. **Incekara F**, Satoer D, Visch-Brink E, Vincent A and **Smits M**. Changes in language white matter tract microarchitecture associated with cognitive deficits in patients with presumed low-grade glioma. *J Neurosurg* 2018:1-9.
37. **Incekara F, Smits M**, Dirven C and Vincent A. Clinical Feasibility of a Wearable Mixed-Reality Device in Neurosurgery. *World Neurosurg* 2018;118:e422-e427.
38. **Khatib S**, van Osch GJ, Kops N, Bastiaansen-Jenniskens YM, Bos PK, Verhaar JA, **Bernsen MR** and van Buul GM. Mesenchymal stem cell secretome reduces pain and prevents cartilage damage in a murine osteoarthritis model. *Eur Cell Mater* 2018;36:218-230.
39. **Kuo W, Ciet P**, Andrinopoulou ER, Chen Y, Pullens B, Garcia-Pena P, Fleck RJ, Paoletti M, McCartin M, Vermeulen F, Morana G, Lee EY, **Tiddens H** and Normal Chest CT Study Group. Reference Values for Central Airway Dimensions on CT Images of Children and Adolescents. *AJR Am J Roentgenol* 2018;210:423-430.
40. **Langen CD, Cremers LGM, de Groot M, White T, Ikram MA, Niessen WJ and Vernooij MW**. Disconnection due to white matter hyperintensities is associated with lower cognitive scores. *Neuroimage* 2018;183:745-756.
41. **Langen CD**, Muetzel R, Blanken L, **van der Lugt A**, Tiemeier H, Verhulst F, **Niessen WJ and White T**. Differential patterns of age-related cortical and subcortical functional connectivity in 6-to-10 year old children: A connectome-wide association study. *Brain Behav* 2018;8:e01031.
42. **Li B, de Groot M, Vernooij MW, Ikram MA, Niessen WJ and Bron EE**. Reproducible White Matter Tract Segmentation Using 3D U-Net on a Large-scale DTI Dataset. *Machine Learning in Medical Imaging MLMI 2018 Lecture Notes in Computer Science* 2018;11046:205-213.
43. **Lubbers M**, Coenen A, Kofflard M, Bruning T, Kietselaer B, Galema T, Kock M, Niezen A, Das M, van Gent M, van den Bos EJ, van Woerkens L, Musters P, Kooij S, **Nous F, Budde R, Hunink M** and Nieman K.

- Comprehensive Cardiac CT With Myocardial Perfusion Imaging Versus Functional Testing in Suspected Coronary Artery Disease: The Multicenter, Randomized CRESCENT-II Trial. *JACC Cardiovasc Imaging* 2018;11:1625-1636.
44. **Lubbers M and Nieman K.** The Authors Reply. *JACC Cardiovasc Imaging* 2018;11:931.
 45. **Lubbers MM, Dedic A, Kurata A, Dijkshoorn M,** Schaap J, Lammers J, Lamfers EJ, Rensing BJ, Braam RL, Nathoe HM, Post JC, Rood PP, Schultz CJ, **Moelker A, Ouhlous M,** van Dalen BM, Boersma E and **Nieman K.** Round-the-clock performance of coronary CT angiography for suspected acute coronary syndrome: Results from the BEACON trial. *Eur Radiol* 2018;28:2169-2175.
 46. **Lubbers MM,** Kock M, Niezen A, Galema T, Kofflard M, Bruning T, Kooij HS, van Valen H, **Dijkshoorn M, Booij R, Padmos A, Vogels A, Budde RPJ and Nieman K.** Iodixanol versus Iopromide at Coronary CT Angiography: Lumen Opacification and Effect on Heart Rhythm-the Randomized IsoCOR Trial. *Radiology* 2018;286:71-80.
 47. **Luu HM, Moelker A, Klein S, Niessen W and van Walsum T.** Quantification of nonrigid liver deformation in radiofrequency ablation interventions using image registration. *Phys Med Biol* 2018;63:175005.
 48. **Meester EJ,** Krenning BJ, **de Blois RH,** Norenberg JP, **de Jong M, Bernsen MR** and Van der Heiden K. Imaging of atherosclerosis, targeting LFA-1 on inflammatory cells with (111)In-DANBIRT. *J Nucl Cardiol* 2018 [epub ahead of print].
 49. **Nguyen AH, Perez-Rovira A, Wielopolski PA, Hernandez Tamames JA,** Duijts L, **de Bruijne M,** Aliverti A, Pennati F, Ivanovska T, **Tiddens H and Ciet P.** Technical challenges of quantitative chest MRI data analysis in a large cohort pediatric study. *Eur Radiol* 2018 [epub ahead of print].
 50. **Oei EH, Koromani F,** Rivadeneira F and Oei L. Response to Osteoporotic Vertebral Fracture Prevalence Varies Widely. *J Bone Miner Res* 2018;33:1550.
 51. **Oei EHG,** Wick MC, Muller-Lutz A, Schleich C and Miese FR. Cartilage Imaging: Techniques and Developments. *Semin Musculoskelet Radiol* 2018;22:245-260.
 52. **Pieterman K, White TJ,** van den Bosch GE, **Niessen WJ,** Reiss IKM, Tibboel D, Hoebeek FE and Dudink J. Cerebellar Growth Impairment Characterizes School-Aged Children Born Preterm without Perinatal Brain Lesions. *AJNR Am J Neuroradiol* 2018;39:956-962.
 53. **Polfliet M, Klein S, Huizinga W,** Paulides MM, **Niessen WJ** and Vandemeulebroucke J. Intrasubject multimodal groupwise registration with the conditional template entropy. *Med Image Anal* 2018;46:15-25.
 54. **Poot DHJ, van der Heijden RA,** van Middelkoop M, **Oei EHG and Klein S.** Dynamic contrast-enhanced MRI of the patellar bone: How to quantify perfusion. *J Magn Reson Imaging* 2018;47:848-858.
 55. **Radojevic M and Meijering E.** Automated Neuron Reconstruction from 3D Fluorescence Microscopy Images Using Sequential Monte Carlo Estimation. *Neuroinformatics* 2018 [epub ahead of print].
 56. **Schoots IG.** MRI in early prostate cancer detection: how to manage indeterminate or equivocal PI-RADS 3 lesions? *Transl Androl Urol* 2018;7:70-82.
 57. **Schoots IG,** Nieboer D, Giganti F, Moore CM, Bangma CH and Roobol MJ. Is magnetic resonance imaging-targeted biopsy a useful addition to systematic confirmatory biopsy in men on active surveillance for low-risk prostate cancer? A systematic review and meta-analysis. *BJU Int* 2018;122:946-958.
 58. **Schoots IG, Osses DF, Drost FH,** Verbeek JFM, Remmers S, van Leenders G, Bangma CH and Roobol MJ. Reduction of MRI-targeted biopsies in men with low-risk prostate cancer on active surveillance by

- stratifying to PI-RADS and PSA-density, with different thresholds for significant disease. *Transl Androl Urol* 2018;7:132-144.
59. **Sun W, Poot DHJ, Yang X, Niessen WJ and Klein S.** Averaged Stochastic Optimization for Medical Image Registration Based on Variance Reduction. *Biomedical Image Registration WBIR 2018 Lecture Notes in Computer Science* 2018;10883:69-79.
 60. **Swart LE, Gomes A, Scholtens AM, Sinha B, Tanis W, Lam M, van der Vlugt MJ, Streukens SAF, Aarntzen E, Bucerius J, van Assen S, Bleeker-Rovers CP, van Geel PP, Krestin GP, van Melle JP, Roos-Hesselink JW, Slart R, Glaudemans A and Budde RPJ.** Improving the Diagnostic Performance of (18)F-Fluorodeoxyglucose Positron-Emission Tomography/Computed Tomography in Prosthetic Heart Valve Endocarditis. *Circulation* 2018;138:1412-1427.
 61. **Swart LE, Roos-Hesselink JW, Valkema R, Schurink CAM and Budde RPJ.** Hybrid 18F-fluorodeoxyglucose positron emission tomography/CT angiography in percutaneous pulmonary prosthetic valve endocarditis. *Eur Heart J Cardiovasc Imaging* 2018;19:1188-1189.
 62. **Swart LE, Scholtens AM, Tanis W, Nieman K, Bogers A, Verzijlbergen FJ, Krestin GP, Roos-Hesselink JW and Budde RPJ.** 18F-fluorodeoxyglucose positron emission/computed tomography and computed tomography angiography in prosthetic heart valve endocarditis: from guidelines to clinical practice. *Eur Heart J* 2018;39:3739-3749.
 63. **Tiddens H, Kuo W, van Straten M and Ciet P.** Paediatric lung imaging: the times they are a-changin'. *Eur Respir Rev.* 2018;27.
 64. **Thomeer MG, Gest B, van Beek H, De Vries M, Dwarkasing R, Klompenhouwer AJ, De Man RA, IJzermans JN and Braun L.** Quantitative analysis Of hepatocellular adenoma and focal nodular hyperplasia in the hepatobiliary phase: External validation of LLCER method using gadobenate dimeglumine as contrast agent. *J Magn Reson Imaging* 2018;47:860-861.
 65. **van de Graaf RA, Chalos V, Del Zoppo GJ, van der Lugt A, Dippel DWJ and Rozenbeek B.** Periprocedural Antithrombotic Treatment During Acute Mechanical Thrombectomy for Ischemic Stroke: A Systematic Review. *Front Neurol* 2018;9:238.
 66. **van de Graaf RA, Samuels N, Mulder M, Eralp I, van Es A, Dippel DWJ, van der Lugt A, Emmer BJ and MR CLEAN Registry Investigators.** Conscious sedation or local anesthesia during endovascular treatment for acute ischemic stroke. *Neurology* 2018;91:e19-e25.
 67. **van der Heijden RA, Poot DHJ, Ekinci M, Kotek G, van Veldhoven PLJ, Klein S, Verhaar JAN, Krestin GP, Bierma-Zeinstra SMA, van Middelkoop M and Oei EHG.** Blood perfusion of patellar bone measured by dynamic contrast-enhanced MRI in patients with patellofemoral pain: A case-control study. *J Magn Reson Imaging* 2018;48:1344-1350.
 68. **van Dijk LJD, Bijdevaate DC and Moelker A.** Rupture of the Radial Artery after Brachiocephalic Stent Placement per Transradial Access. *J Vasc Interv Radiol* 2018;29:1281-1283.
 69. **van Dijk LJD, Moons LMG, van Noord D, Moelker A, Verhagen HJM, Bruno MJ and Rouwet EV.** Persistent symptom relief after revascularization in patients with single-artery chronic mesenteric ischemia. *J Vasc Surg* 2018;68:779-785.
 70. **van Dijk LJD, van der Wel T, van Noord D, Moelker A, Verhagen HJM, Nieboer D, Kuipers EJ and Bruno MJ.** Intraobserver and interobserver reliability of visible light spectroscopy during upper gastrointestinal endoscopy. *Expert Rev Med Devices* 2018;15:605-610.
 71. **Vernooij MW, Jasperse B, Steketee R, Koek M, Vrooman H, Ikram MA, Pama J, van der Lugt A, Smits M and Niessen WJ.** Automatic normative quantification of brain tissue volume to support the diagnosis of dementia: A clinical evaluation of diagnostic accuracy. *Neuroimage Clin* 2018;20:374-379.

72. **Vibha D**, Tiemeier H, Mirza SS, Adams HHH, **Niessen WJ**, Hofman A, Prasad K, **van der Lugt A**, **Vernooij MW** and **Ikram MA**. Brain Volumes and Longitudinal Cognitive Change: A Population-based Study. *Alzheimer Dis Assoc Disord* 2018;32:43-49.
73. **Wagensveld IM**, **Blokkeer BM**, **Pezzato A**, **Wielopolski PA**, **Renken NS**, von der Thusen JH, **Krestin GP**, **Hunink MGM**, Oosterhuis JW and **Weustink AC**. Diagnostic accuracy of postmortem computed tomography, magnetic resonance imaging, and computed tomography-guided biopsies for the detection of ischaemic heart disease in a hospital setting. *Eur Heart J Cardiovasc Imaging* 2018;19:739-748.
74. **White T**, **Jansen PR**, Muetzel RL, Sudre G, El Marroun H, Tiemeier H, Qiu A, Shaw P, Michael AM and Verhulst FC. Automated quality assessment of structural magnetic resonance images in children: Comparison with visual inspection and surface-based reconstruction. *Hum Brain Mapp* 2018;39:1218-1231.
75. **White T**, Muetzel RL, El Marroun H, Blanken LME, Jansen P, Bolhuis K, Kocevskaja D, Mous SE, Mulder R, Jaddoe VVW, **van der Lugt A**, Verhulst FC and Tiemeier H. Paediatric population neuroimaging and the Generation R Study: the second wave. *Eur J Epidemiol* 2018;33:99-125.
76. **Yilmaz P**, Ikram MK, **Niessen WJ**, **Ikram MA** and **Vernooij MW**. Practical Small Vessel Disease Score Relates to Stroke, Dementia, and Death. *Stroke* 2018;49:2857-2865.
77. **Yilmaz P**, Wallecan K, Kristanto W, Aben JP and **Moelker A**. Evaluation of a Semi-automatic Right Ventricle Segmentation Method on Short-Axis MR Images. *J Digit Imaging*. 2018;31:670-679.

Peer-reviewed Journal Articles – Coauthor

79. Ahmad S, Bannister C, van der Lee SJ, Vojinovic D, **Adams HHH**, Ramirez A, Escott-Price V, Sims R, Baker E, Williams J, Holmans P, **Vernooij MW**, **Ikram MA**, Amin N and van Duijn CM. Disentangling the biological pathways involved in early features of Alzheimer's disease in the Rotterdam Study. *Alzheimers Dement* 2018;14:848-857
80. Akin S, Muslem R, Constantinescu AA, Manintveld OC, Birim O, Brugts JJ, Maat A, **Froberg AC**, Bogers A and Caliskan K. 18F-FDG PET/CT in the Diagnosis and Management of Continuous Flow Left Ventricular Assist Device Infections: A Case Series and Review of the Literature. *ASAIO J* 2018;64:e11-e19.
81. Aladro Y, Lopez-Alvarez L, Sanchez-Reyes JM, **Hernandez-Tamames JA**, Melero H, Rubio-Fernandez S, Thuissard I and Cerezo-Garcia M. Relationship between episodic memory and volume of the brain regions of two functional cortical memory systems in multiple sclerosis. *J Neurol* 2018;265:2182-2189.
82. Albrecht M, Koolhaas CM, Schoufour JD, van Rooij FJ, Kavousi M, **Ikram MA** and Franco OH. Physical activity types and atrial fibrillation risk in the middle-aged and elderly: The Rotterdam Study. *Eur J Prev Cardiol* 2018;25:1316-1323.
83. Alves HC, Treurniet KM, Dutra BG, Jansen IGH, Boers AMM, **Santos EMM**, **Berkhemer OA**, Dippel DWJ, **van der Lugt A**, van Zwam WH, van Oostenbrugge RJ, Lingsma HF, Roos Y, Yoo AJ, Marquering HA, Majoie C and MR CLEAN trial investigators. Associations Between Collateral Status and Thrombus Characteristics and Their Impact in Anterior Circulation Stroke. *Stroke* 2018;49:391-396.
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