

Circulatory Health (UMC Utrecht) - 2021 List of publications

1: Ronkainen J, Nedelec R, Atehortua A, Balkhiyarova Z, Cascarano A, Ngoc Dang V, Elhakeem A, van Enckevort E, Goncalves Soares A, Haakma S, Halonen M, Heil KF, Heiskala A, Hyde E, Jacquemin B, Keikkala E, Kerckhoffs J, Klåvus A, Kopinska JA, Lepeule J, Marazzi F, Motoc I, Näätänen M, Ribbenstedt A, Rundblad A, Savolainen O, Simonetti V, de Toro Eadie N, Tzala E, Ulrich A, Wright T, Zarei I, d'Amico E, Belotti F, Brunius C, Castleton C, Charles MA, Gaillard R, Hanhineva K, Hoek G, Holven KB, Jaddoe VVW, Kaakinen MA, Kajantie E, Kavousi M, Lakka T, Matthews J, Piano Mortari A, Vääräsmäki M, Voortman T, Webster C, Zins M, Atella V, Bulgheroni M, Chadeau-Hyam M, Conti G, Evans J, Felix JF, Heude B, Järvelin MR, Kolehmainen M, Landberg R, Lekadir K, Parusso S, Prokopenko I, de Rooij SR, Roseboom T, Swertz M, Timpson N, Ulven SM, **Vermeulen R**, Juola T, Sebert S. LongITools: Dynamic longitudinal exposome trajectories in cardiovascular and metabolic noncommunicable diseases. *Environ Epidemiol.* 2021 Dec 28;6(1):e184. doi: 10.1097/EE9.000000000000184. PMID: 35169663; PMCID: PMC8835657.

2: Slenders L, Landsmeer LPL, Cui K, Depuydt MAC, Verwer M, Mekke J, Timmerman N, van den Dungen NAM, Kuiper J, de Winther MPJ, Prange KHM, Ma WF, Miller CL, Aherrahrou R, Civelek M, **de Borst GJ**, **de Kleijn DPV**, **Asselbergs FW**, **den Ruijter HM**, Boltjes A, **Pasterkamp G**, van der Laan SW, **Mokry M**. Intersecting single-cell transcriptomics and genome-wide association studies identifies crucial cell populations and candidate genes for atherosclerosis. *Eur Heart J Open.* 2021 Dec 21;2(1):oeab043. doi: 10.1093/ehjopen/oeab043. PMID: 35174364; PMCID: PMC8841481.

3: Jones D, Di Martino E, Bradley SH, Essang B, Hemphill S, Wright JM, Renzi C, Surr C, Clegg A, **De Wit N**, Neal R. Factors affecting the decision to investigate older adults with potential cancer symptoms: a systematic review. *Br J Gen Pract.* 2021 Dec 31;72(714):e1-e10. doi: 10.3399/BJGP.2021.0257. PMID: 34782315; PMCID: PMC8597772.

4: Martini ML, Neifert SN, Shuman WH, Chapman EK, Schüpfer AJ, Oermann EK, Mocco J, Todd M, Torner JC, Molyneux A, Mayer S, Roux PL, **Vergouwen MDI**, **Rinkel GJE**, Wong GKC, Kirkpatrick P, Quinn A, Hänggi D, Etminan N, van den Bergh WM, Jaja BNR, Cusimano M, Schweizer TA, Suarez JI, Fukuda H, Yamagata S, Lo B, Leonardo de Oliveira Manoel A, Boogaarts HD, Macdonald RL; SAHIT Collaboration. Rescue therapy for vasospasm following aneurysmal subarachnoid hemorrhage: a propensity score-matched analysis with machine learning. *J Neurosurg.* 2021 Jul 2;136(1):134-147. doi: 10.3171/2020.12.JNS203778. PMID: 34214980.

5: Marzà-Florensa A, Boateng D, Agyemang C, Beune E, Meeks KAC, Bahendeka S, Levitt N, **Klipstein-Grobusch K**. Multimorbidity Among Migrant and Non-Migrant Ghanaians: The RODAM Study. *Int J Public Health.* 2021 Dec 31;66:1604056. doi: 10.3389/ijph.2021.1604056. PMID: 35035346; PMCID: PMC8759292.

6: Zoccali C, Vanholder R, Wagner CA, Anders HJ, **Blankestijn PJ**, Bruchfeld A, Capasso G, Cozzolino M, Dekker FW, Fliser D, Fouque D, Gansevoort RT, Goumenos D, Jager KJ, Massy ZA, Ostrom TAJ, Rychlik I, Soler MJ, Stevens K, Spasovski G, Wanner C. Funding kidney research as a public health priority: challenges and opportunities. *Nephrol Dial Transplant.* 2021 Dec 31;37(1):21-28. doi: 10.1093/ndt/gfaa163. PMID: 32888017.

7: van der Linde-van den Bor M, Slond F, Liesdek OCD, **Suyker WJ**, Weldam SWM. The use of virtual reality in patient education related to medical somatic treatment: A scoping review. *Patient Educ Couns.* 2021 Dec 29:S0738-3991(21)00793-X. doi: 10.1016/j.pec.2021.12.015. Epub ahead of print. PMID: 35000833.

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8: Niemantsverdriet MSA, Pieters TT, **Hoefler IE**, **Verhaar MC**, Joles JA, **van Solinge WW**, Tiel Groenestege WM, Haitjema S, Rookmaaker MB. GFR estimation is complicated by a high incidence of non-steady-state serum creatinine concentrations at the emergency department. *PLoS One*. 2021 Dec 29;16(12):e0261977. doi: 10.1371/journal.pone.0261977. PMID: 34965267; PMCID: PMC8716053.

9: **Peters SAE**, Kluin J. Why do women do worse after coronary artery bypass grafting? *Eur Heart J*. 2021 Dec 28;43(1):29-31. doi: 10.1093/eurheartj/ehab617. PMID: 34524421.

10: Hsu B, Carcel C, Wang X, **Peters SAE**, Randall DA, Havard A, Miller M, Redfern J, Woodward M, Jorm LR. Erratum to "Sex differences in emergency medical services management of patients with myocardial infarction: Analysis of routinely collected data for over 110,000 patients" [*Am Heart J* (2021) 87-91]. *Am Heart J*. 2021 Dec 24:S0002-8703(21)00451-8. doi: 10.1016/j.ahj.2021.11.007. Epub ahead of print. Erratum for: *Am Heart J*. 2021 Nov;241:87-91. PMID: 34961614.

11: Bakers JNE, de Jongh AD, Bunte TM, Kendall L, Han SS, Epstein N, Lavrov A, Beelen A, **Visser-Meily JMA**, van den Berg LH, van Eijk RPA. Using the ALSFRS-R in multicentre clinical trials for amyotrophic lateral sclerosis: potential limitations in current standard operating procedures. *Amyotroph Lateral Scler Frontotemporal Degener*. 2021 Dec 24:1-8. doi: 10.1080/21678421.2021.2016838. Epub ahead of print. PMID: 34949141.

12: Peters S, Vienneau D, Sampri A, Turner MC, Castaño-Vinyals G, Bugge M, **Vermeulen R**. Occupational Exposure Assessment Tools in Europe: A Comprehensive Inventory Overview. *Ann Work Expo Health*. 2021 Dec 22:wxab110. doi: 10.1093/annweh/wxab110. Epub ahead of print. PMID: 34935027.

13: Holthuis EI, **Visseren FLJ**, **Bots ML**, **Peters SAE**; UCC-SMART study group. Risk Factor Clusters and Cardiovascular Disease in High-Risk Patients: The UCC-SMART Study. *Glob Heart*. 2021 Dec 21;16(1):85. doi: 10.5334/gh.897. PMID: 35141126; PMCID: PMC8698229.

14: Driessen HE, van der Voorn SM, Bourfiss M, van Lint FHM, Mirzad F, Onsri LE, **Vos MA**, **van Veen TAB**. Buccal Mucosa Cells as a Potential Diagnostic Tool to Study Onset and Progression of Arrhythmogenic Cardiomyopathy. *Int J Mol Sci*. 2021 Dec 21;23(1):57. doi: 10.3390/ijms23010057. PMID: 35008484; PMCID: PMC8744793.

15: Kinaci A, Bergmann W, van Thoor S, Redegeld S, **van der Zwan A**, van Doormaal TPC. Safety and biodegradability of a synthetic dural sealant patch (Liqoseal) in a porcine cranial model. *Animal Model Exp Med*. 2021 Dec 21;4(4):398-405. doi: 10.1002/ame2.12184. PMID: 34977491; PMCID: PMC8690992.

16: Vernooij LM, van Klei WA, Moons KG, Takada T, **van Waes J**, Damen JA. The comparative and added prognostic value of biomarkers to the Revised Cardiac Risk Index for preoperative prediction of major adverse cardiac events and all-cause mortality in patients who undergo noncardiac surgery. *Cochrane Database Syst Rev*. 2021 Dec 21;12(12):CD013139. doi: 10.1002/14651858.CD013139.pub2. PMID: 34931303; PMCID: PMC8689147.

17: Valentijn FA, Knoppert SN, Pissas G, Rodrigues-Diez RR, Marquez-Exposito L, Broekhuizen R, **Mokry M**, Kester LA, Falke LL, **Goldschmeding R**, Ruiz-Ortega M, Eleftheriadis T, Nguyen TQ. CCN2 Aggravates the Immediate Oxidative Stress-DNA Damage Response following Renal Ischemia-Reperfusion Injury. *Antioxidants (Basel)*. 2021 Dec 20;10(12):2020. doi: 10.3390/antiox10122020. PMID: 34943123; PMCID: PMC8698829.

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18: Cupido AJ, **Asselbergs FW**, Natarajan P; CHARGE Inflammation Working Group, Ridker PM, Hovingh GK, **Schmidt AF**. Dissecting the IL-6 pathway in cardiometabolic disease: A Mendelian randomization study on both IL6 and IL6R. *Br J Clin Pharmacol*. 2021 Dec 20. doi: 10.1111/bcp.15191. Epub ahead of print. PMID: 34931349.

19: Mathijssen H, Tjoeng TWH, Keijsers RGM, Bakker ALM, Akdim F, van Es HW, van Beek FT, Veltkamp MV, Grutters JC, **Post MC**. The usefulness of repeated CMR and FDG PET/CT in the diagnosis of patients with initial possible cardiac sarcoidosis. *EJNMMI Res*. 2021 Dec 20;11(1):129. doi: 10.1186/s13550-021-00870-y. PMID: 34928457; PMCID: PMC8688603.

20: van den Boogert TPW, Claessen BEPM, Boekholdt SM, **Leiner T**, Vliegenthart R, Schuiling SF, Timmer JR, Bekkers SCAM, **Voskuil M**, Siebelink HJ, van Es W, Lamb HJ, Prokop M, Damman P, Stoker J, Willems HC, Henriques JP, Planken RN. The impact and challenges of implementing CTCA according to the 2019 ESC guidelines on chronic coronary syndromes: a survey and projection of CTCA services in the Netherlands. *Insights Imaging*. 2021 Dec 18;12(1):186. doi: 10.1186/s13244-021-01122-2. PMID: 34921633; PMCID: PMC8684565.

21: Van Ommen AM, Kessler EL, Valstar G, **Onland-Moret NC**, **Cramer MJ**, **Rutten F**, Coronel R, Den Ruijter H. Electrocardiographic Features of Left Ventricular Diastolic Dysfunction and Heart Failure With Preserved Ejection Fraction: A Systematic Review. *Front Cardiovasc Med*. 2021 Dec 17;8:772803. doi: 10.3389/fcvm.2021.772803. PMID: 34977187; PMCID: PMC8719440.

22: van Goor HMR, Breteler MJM, van Loon K, de Hond TAP, **Reitsma JB**, Zwart DLM, Kalkman CJ, **Kaasjager KAH**. Remote Hospital Care for Recovering COVID-19 Patients Using Telemedicine: A Randomised Controlled Trial. *J Clin Med*. 2021 Dec 17;10(24):5940. doi: 10.3390/jcm10245940. PMID: 34945234; PMCID: PMC8706980.

23: Zuidegeest MGP, Goetz I, Meinecke AK, Boateng D, Irving EA, van Thiel GJM, Welsing PMJ, Oude-Rengerink K, **Grobbee DE**; www.imi-getreal.eu. The GetReal Trial Tool: design, assess and discuss clinical drug trials in light of Real World Evidence generation. *J Clin Epidemiol*. 2021 Dec 17:S0895-4356(21)00423-6. doi: 10.1016/j.jclinepi.2021.12.019. Epub ahead of print. PMID: 34929319.

24: van Rhijn-Brouwer FCCC, Vernooij RWM, Wever K, Schilt I, Fledderus JO, **Verhaar MC**, Gremmels H. Evaluation of bone marrow-derived cell-based therapies in the hindlimb ischaemia model: a protocol for a systematic review and meta-analysis. *BMJ Open Sci*. 2021 Dec 16;5(1):e100209. doi: 10.1136/bmjos-2021-100209. PMID: 35047706; PMCID: PMC8749269.

25: Hullegie S, Venekamp RP, van Dongen TMA, Mulder S, van Schaik W, **de Wit GA**, Hay AD, Little P, Moore MV, Sanders EAM, Bonten MJM, Bogaert D, Schilder AG, Damoiseaux RAMJ. Topical or oral antibiotics for children with acute otitis media presenting with ear discharge: study protocol of a randomised controlled non-inferiority trial. *BMJ Open*. 2021 Dec 16;11(12):e052128. doi: 10.1136/bmjopen-2021-052128. PMID: 34916313; PMCID: PMC8679066.

26: van Etten ES, Kaushik K, Jolink WMT, Koemans EA, Ekker MS, Rasing I, Voigt S, Schreuder FHBM, Cannegieter SC, **Rinkel GJE**, Lijfering WM, Klijn CJM, Wermer MJH. Trigger Factors for Spontaneous Intracerebral Hemorrhage: A Case-Crossover Study. *Stroke*. 2021 Dec 16:STROKEAHA121036233. doi: 10.1161/STROKEAHA.121.036233. Epub ahead of print. PMID: 34911344.

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27: van der Ven CFT, Tibbitt MW, Conde J, van Mil A, Hjortnaes J, **Doevendans PA, Sluijter JPG**, Aikawa E, Langer RS. Controlled delivery of gold nanoparticle- coupled miRNA therapeutics *via* an injectable self-healing hydrogel. *Nanoscale*. 2021 Dec 16;13(48):20451-20461. doi: 10.1039/d1nr04973a. PMID: 34817483; PMCID: PMC8675028.

28: Uijl A, Lund LH, **Asselbergs FW**, Savarese G. Methodological issues in meta- analyses of real-world clinical data to infer causality. *Int J Cardiol*. 2021 Dec 15;345:107-108. doi: 10.1016/j.ijcard.2021.10.029. Epub 2021 Oct 22. PMID: 34688720.

29: Diepstraten FA, Hoetink AE, van Grotel M, Huitema ADR, **Stokroos RJ**, van den Heuvel-Eibrink MM, Meijer AJM. Aminoglycoside- and glycopeptide-induced ototoxicity in children: a systematic review. *JAC Antimicrob Resist*. 2021 Dec 14;3(4):dlab184. doi: 10.1093/jacamr/dlab184. PMID: 34917943; PMCID: PMC8669239.

30: Alberga AJ, von Meijenfeldt GCI, Rastogi V, de Bruin JL, Wever JJ, **van Herwaarden JA**, Hamming JF, **Hazenberg CEVB**, van Schaik J, Mees BME, van der Laan MJ, Zeebregts CJ, Schurink GWH, Verhagen HJM; Dutch Society of Vascular Surgery*, the Steering Committee of the Dutch Surgical Aneurysm Audit, the Dutch Institute for Clinical Auditing. Association of Hospital Volume with Perioperative Mortality of Endovascular Repair of Complex Aortic Aneurysms: A Nationwide Cohort Study. *Ann Surg*. 2021 Dec 14. doi: 10.1097/SLA.0000000000005337. Epub ahead of print. PMID: 34913891.

31: Vugt SV, de Schepper E, van Delft S, Zuithoff N, **de Wit N**, Bindels P. Effectiveness of professional and patient-oriented strategies in reducing vitamin D and B12 test ordering in primary care: a cluster randomised intervention study. *BJGP Open*. 2021 Dec 14;5(6):BJGPO.2021.0113. doi: 10.3399/BJGPO.2021.0113. PMID: 34407963.

32: Sijtsma A, Rienks J, **van der Harst P**, Navis G, Rosmalen JGM, Dotinga A. Cohort Profile Update: Lifelines, a three-generation cohort study and biobank. *Int J Epidemiol*. 2021 Dec 13:dyab257. doi: 10.1093/ije/dyab257. Epub ahead of print. PMID: 34897450.

33: Mao Z, Aglago EK, Zhao Z, Schalkwijk C, Jiao L, Freisling H, Weiderpass E, Hughes DJ, Eriksen AK, Tjønneland A, Severi G, Rothwell J, Boutron-Ruault MC, Katzke V, Kaaks R, Schulze MB, Birukov A, Krogh V, Panico S, Tumino R, Ricceri F, Bueno-de-Mesquita HB, **Vermeulen RCH**, Gram IT, Skeie G, Sandanger TM, Quirós JR, Crous-Bou M, Sánchez MJ, Amiano P, Chirlaque MD, Barricarte Gurrea A, Manjer J, Johansson I, Perez-Cornago A, Jenab M, Fedirko V. Dietary Intake of Advanced Glycation End Products (AGEs) and Mortality among Individuals with Colorectal Cancer. *Nutrients*. 2021 Dec 10;13(12):4435. doi: 10.3390/nu13124435. PMID: 34959986; PMCID: PMC8704988.

34: Meijjs TA, van de Sande DAJP, Peek J, Limburg AS, **Voskuil M**. Coarctatio aortae [Coarctation of the aorta as a cause of difficult-to-control hypertension]. *Ned Tijdschr Geneeskd*. 2021 Dec 9;165:D5417. Dutch. PMID: 35129897.

35: Kamel SM, van Opbergen CJM, Koopman CD, Verkerk AO, Boukens BJD, de Jonge B, Onderwater YL, van Alebeek E, Chocron S, Polidoro Pontalti C, Weuring WJ, **Vos MA, de Boer TP, van Veen TAB, Bakkers J**. Istaroxime treatment ameliorates calcium dysregulation in a zebrafish model of phospholamban R14del cardiomyopathy. *Nat Commun*. 2021 Dec 9;12(1):7151. doi: 10.1038/s41467-021-27461-8. PMID: 34887420; PMCID: PMC8660846.

36: Jwair S, Boerboom RA, Versnel H, **Stokroos RJ**, Thomeer HGXM. Evaluating cochlear insertion trauma and hearing preservation after cochlear implantation (CIPRES): a study protocol for a randomized single-blind controlled trial. *Trials*. 2021 Dec 9;22(1):895. doi: 10.1186/s13063-021-05878-2. PMID: 34886884; PMCID: PMC8656003.

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37: Coats AJS, Heymans S, Farmakis D, Anker SD, Backs J, Bauersachs J, de Boer RA, f  elutkienf   J, Cleland JGF, Dobrev D, van Gelder IC, von Haehling S, Hindricks G, Jankowska E, Kotecha D, **van Laake LW**, Lainscak M, Lund LH, Lunde IG, Lyon AR, Manouras A, Milif  if   D, Mueller C, Polovina M, Ponikowski P, Rosano G, Seferovif   PM, Tsch   pe C, Wachter R, Ruschitzka F. Atrial disease and heart failure: the common soil hypothesis proposed by the Heart Failure Association of the European Society of Cardiology. *Eur Heart J*. 2021 Dec 7:ehab834. doi: 10.1093/eurheartj/ehab834. Epub ahead of print. Erratum in: *Eur Heart J*. 2022 Mar 11;; PMID: 34875053.

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40: Song L, Chen C, Chen X, Guo Y, Liu F, Lin Y, Billot L, Li Q, Liu H, Si L, Ouyang M, Arima H, Bath PM, Ford GA, Robinson T, Sandset EC, Saver JL, Sprigg N, **van der Worp HB**, Zhang C, Yang J, Li G, Anderson CS; INTERACT4 investigators. INTENSive ambulance-delivered blood pressure Reduction in hyper-ACute stroke Trial (INTERACT4): study protocol for a randomized controlled trial. *Trials*. 2021 Dec 6;22(1):885. doi: 10.1186/s13063-021-05860-y. PMID: 34872617; PMCID: PMC8646007.

41: Wouters PC, van Everdingen WM, Vernooij K, Geelhoed B, Allaart CP, Rienstra M, Maass AH, **Vos MA**, Prinzen FW, **Meine M**, **Cramer MJ**. Does mechanical dyssynchrony in addition to QRS area ensure sustained response to cardiac resynchronization therapy? *Eur Heart J Cardiovasc Imaging*. 2021 Dec 6;jeab264. doi: 10.1093/ehjci/jeab264. Epub ahead of print. PMID: 34871385.

42: Dofferhoff ASM, Piscaer I, Schurgers LJ, Visser MPJ, van den Ouweland JMW, **de Jong PA**, Gosens R, Hackeng TM, van Daal H, Lux P, Maassen C, Karssemeijer EGA, Vermeer C, Wouters EFM, Kistemaker LEM, Walk J, Janssen R. Reduced Vitamin K Status as a Potentially Modifiable Risk Factor of Severe Coronavirus Disease 2019. *Clin Infect Dis*. 2021 Dec 6;73(11):e4039-e4046. doi: 10.1093/cid/ciaa1258. PMID: 32852539; PMCID: PMC7499546.

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45: van der Pol KH, Wever KE, Verbakel M, **Visseren FLJ**, Cornel JH, Rongen GA. Allopurinol to reduce cardiovascular morbidity and mortality: A systematic review and meta-analysis. *PLoS One*. 2021 Dec 2;16(12):e0260844. doi: 10.1371/journal.pone.0260844. PMID: 34855873; PMCID: PMC8638940.

46: van Leeuwen FHP, Lena B, Zwanenburg JJM, van Vulpen LFD, Bartels LW, **Fischer K**, Nap FJ, **de Jong PA**, Bos C, Foppen W. Detecting low blood concentrations in joints using T1 and T2 mapping at 1.5, 3, and 7 T: an in vitro study. *Eur Radiol Exp*. 2021 Dec 2;5(1):51. doi: 10.1186/s41747-021-00251-z. PMID: 34853955; PMCID: PMC8636530.

47: Ayerdem G, van Hassel G, Vinke JSJ, Kremer DJ, **Gaillard CAJM**, de Borst MH, Bakker SJL, Eisenga MF. Iron deficiency, with and without anaemia, across strata of kidney function in kidney transplant recipients. *Nephrol Dial Transplant*. 2021 Dec 2;36(12):2342-2344. doi: 10.1093/ndt/gfab173. PMID: 33944947; PMCID: PMC8643576.

48: Nawaz B, Fromm A, øygarden H, Eide GE, Saeed S, Meijer R, **Bots ML**, Sand KM, Thomassen L, Næss H, Waje-Andreassen U. Prevalence of atherosclerosis and association with 5-year outcome: The Norwegian Stroke in the Young Study. *Eur Stroke J*. 2021 Dec;6(4):374-384. doi: 10.1177/23969873211059472. Epub 2021 Nov 11. PMID: 35342817; PMCID: PMC8948509.

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50: Finnesgard EJ, Simons JP, Marecki H, Ofori I, Kölbel T, Schurink GWH, **van Herwaarden JA**, Schanzer A. Fiber Optic RealShape technology in endovascular surgery. *Semin Vasc Surg*. 2021 Dec;34(4):241-246. doi: 10.1053/j.semvascsurg.2021.10.001. Epub 2021 Oct 27. PMID: 34911630.

51: Arenas J, Szabo Z, van der Wal J, **Maas C**, Riaz T, Tønjum T, Tommassen J. Serum proteases prevent bacterial biofilm formation: role of kallikrein and plasmin. *Virulence*. 2021 Dec;12(1):2902-2917. doi: 10.1080/21505594.2021.2003115. PMID: 34903146; PMCID: PMC8677018.

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