**SABRE Publications 2015-25**

**SABRE Specific publications**

1: Rehwald R, Sudre CH, Smith L, Sokolska M, Tillin T, Atkinson D, Chaturvedi N, Hughes AD, Jäger HR. High-Resolution MRA Cerebrovascular Findings in a Tri-Ethnic Population. AJNR Am J Neuroradiol. 2024 Nov 7;45(11):1661-1669. doi: 10.3174/ajnr.A8402. PMID: 38997120; PMCID: PMC11543068.

2: Anbar R, Jones S, Chaturvedi N, Sudre C, Richards M, Sultan SR, Hughes AD. Associations of carotid atherosclerosis with cognitive function and brain health: Findings from a UK tri-ethnic cohort study (Southall and Brent Revisited). Atheroscler Plus. 2024 Jan 30;55:39-46. doi: 10.1016/j.athplu.2024.01.002. PMID: 38371883; PMCID: PMC10874717.

3: Green RE, Sudre CH, Warren-Gash C, Butt J, Waterboer T, Hughes AD, Schott JM,

Richards M, Chaturvedi N, Williams DM. Common infections and neuroimaging markers of dementia in three UK cohort studies. Alzheimers Dement. 2024 Mar;20(3):2128-2142. doi: 10.1002/alz.13613. Epub 2024 Jan 22. PMID: 38248636; PMCID: PMC10984486.

4: Al Saikhan L, Park C, Tillin T, Jones S, Mayet J, Chaturvedi N, Hughes A. Does 3D-speckle tracking echocardiography improve prediction of major cardiovascular events in a multi-ethnic general population? A Southall and Brent Revisited (SABRE) cohort study. PLoS One. 2023 Jun 27;18(6):e0287173. doi: 10.1371/journal.pone.0287173. PMID: 37368914; PMCID: PMC10298788.

5: Al Saikhan L, Park C, Tillin T, Jones S, Francis D, Mayet J, Chaturvedi N, Hughes AD. Sex-differences in associations of LV structure and function measured by echocardiography with long-term risk of mortality and cardiovascular morbidity. Front Cardiovasc Med. 2023 Apr 25;10:1144964. doi: 10.3389/fcvm.2023.1144964. PMID: 37180770; PMCID: PMC10166834.

6: Anbar R, Chaturvedi N, Eastwood SV, Tillin T, Hughes AD. Carotid atherosclerosis in people of European, South Asian and African Caribbean ethnicity in the Southall and Brent revisited study (SABRE). Front Cardiovasc Med. 2023 Jan 24;9:1002820. doi: 10.3389/fcvm.2022.1002820. PMID: 36762303; PMCID: PMC9902363.

7: Elliott HR, Burrows K, Min JL, Tillin T, Mason D, Wright J, Santorelli G, Davey Smith G, Lawlor DA, Hughes AD, Chaturvedi N, Relton CL. Characterisation of ethnic differences in DNA methylation between UK-resident South Asians and Europeans. Clin Epigenetics. 2022 Oct 15;14(1):130. doi: 10.1186/s13148-022-01351-2. PMID: 36243740; PMCID: PMC9571473.

8: Molinari M, Cremaschi A, De Iorio M, Chaturvedi N, Hughes A, Tillin T. Bayesian dynamic network modelling: an application to metabolic associations in cardiovascular diseases. J Appl Stat. 2022 Sep 2;51(1):114-138. doi: 10.1080/02664763.2022.2116746. PMID: 38179161; PMCID: PMC10763914.

9: Sudre CH, Moriconi S, Rehwald R, Smith L, Tillin T, Barnes J, Atkinson D,

Ourselin S, Chaturvedi N, Hughes AD, Jäger HR, Cardoso MJ. Accelerated vascular

aging: Ethnic differences in basilar artery length and diameter, and its association with cardiovascular risk factors and cerebral small vessel disease. Front Cardiovasc Med. 2022 Jul 28;9:939680. doi: 10.3389/fcvm.2022.939680. PMID: 35966566; PMCID: PMC9366336.

10: Jones S, Schultz MG, Park C, Tillin T, Chaturvedi N, Hughes AD. Antihypertensive treatment effect on exercise blood pressure and exercise capacity in older adults. J Hypertens. 2022 Sep 1;40(9):1682-1691. doi: 10.1097/HJH.0000000000003201. Epub 2022 Jul 25. PMID: 35881442.

11: Jones S, Tillin T, Williams S, Rapala A, Chaturvedi N, Hughes AD. Skeletal Muscle Tissue Saturation Changes Measured Using Near Infrared Spectroscopy During Exercise Are Associated With Post-Occlusive Reactive Hyperaemia. Front Physiol. 2022 Jul 8;13:919754. doi: 10.3389/fphys.2022.919754. PMID: 35874520; PMCID: PMC9304617.

12: Al Saikhan L, Park C, Tillin T, Lloyd G, Mayet J, Chaturvedi N, Hughes AD. Relationship Between Image Quality and Bias in 3D Echocardiographic Measures: Data From the SABRE (Southall and Brent Revisited) Study. J Am Heart Assoc. 2022 May 3;11(9):e019183. doi: 10.1161/JAHA.120.019183. Epub 2022 Apr 27. PMID: 35475343; PMCID: PMC9238620.

13: Durdin R, Parsons C, Dennison EM, Williams S, Tillin T, Chaturvedi N, Cooper C, Harvey NC, Ward KA. Inflammatory status, body composition and ethnic differences in bone mineral density: The Southall and Brent Revisited Study. Bone. 2022 Feb;155:116286. doi: 10.1016/j.bone.2021.116286. Epub 2021 Dec 7. PMID: 34890861; PMCID: PMC8755916.

14: Ong ZL, Chaturvedi N, Tillin T, Dale C, Garfield V. Association between sleep quality and type 2 diabetes at 20-year follow-up in the Southall and Brent REvisited (SABRE) cohort: a triethnic analysis. J Epidemiol Community Health. 2021 Nov;75(11):1117-1122. doi: 10.1136/jech-2020-215796. Epub 2021 Jun 11. PMID: 34117111; PMCID: PMC8515117.

15: Jones S, Schultz MG, Tillin T, Park C, Williams S, Chaturvedi N, Hughes AD. Sex differences in the contribution of different physiological systems to physical function in older adults. Geroscience. 2021 Feb;43(1):443-455. doi: 10.1007/s11357-021-00328-y. Epub 2021 Feb 11. PMID: 33575915; PMCID: PMC8050191.

16: Al Saikhan L, Alobaida M, Bhuva A, Chaturvedi N, Heasman J, Hughes AD, Jones

S, Eastwood S, Manisty C, March K, Ghosh AK, Mayet J, Oguntade A, Tillin T, Williams S, Wright A, Park C. Imaging Protocol, Feasibility, and Reproducibility of Cardiovascular Phenotyping in a Large Tri-Ethnic Population-Based Study of Older People: The Southall and Brent Revisited (SABRE) Study. Front Cardiovasc Med. 2020 Nov 13;7:591946. doi: 10.3389/fcvm.2020.591946. Erratum in: Front Cardiovasc Med. 2021 Nov 04;8:769050. doi: 10.3389/fcvm.2021.769050. PMID: 33304933; PMCID: PMC7693529.

17: Topriceanu CC, Tillin T, Chaturvedi N, Joshi R, Garfield V. The association between plasma metabolites and sleep quality in the Southall and Brent Revisited (SABRE) Study: A cross-sectional analysis. J Sleep Res. 2021 Aug;30(4):e13245. doi: 10.1111/jsr.13245. Epub 2020 Dec 6. PMID: 33283399; PMCID: PMC8365718.

18: Vyas MV, Chaturvedi N, Hughes AD, Marmot M, Tillin T. Cardiovascular disease

recurrence and long-term mortality in a tri-ethnic British cohort. Heart. 2021 May 26;107(12):996-1002. doi: 10.1136/heartjnl-2020-317641. PMID: 33067326; PMCID: PMC8165149.

19: Jones S, Tillin T, Park C, Williams S, Rapala A, Al Saikhan L, Eastwood SV, Richards M, Hughes AD, Chaturvedi N. Cohort Profile Update: Southall and Brent Revisited (SABRE) study: a UK population-based comparison of cardiovascular disease and diabetes in people of European, South Asian and African Caribbean heritage. Int J Epidemiol. 2020 Oct 1;49(5):1441-1442e. doi: 10.1093/ije/dyaa135. PMID: 33049759; PMCID: PMC7746410.

20: Wang J, Tillin T, Hughes AD, Richards M, Sattar N, Park C, Chaturvedi N. Subclinical macro and microvascular disease is differently associated with depressive symptoms in men and women: Findings from the SABRE population-based study. Atherosclerosis. 2020 Nov;312:35-42. doi: 10.1016/j.atherosclerosis.2020.09.005. Epub 2020 Sep 13. PMID: 32971394; PMCID: PMC7594642.

21: Molinari M, de Iorio M, Chaturvedi N, Hughes A, Tillin T. Modelling ethnic differences in the distribution of insulin resistance via Bayesian nonparametric processes: an application to the SABRE cohort study. Int J Biostat. 2020 Aug 31;17(1):153-164. doi: 10.1515/ijb-2019-0108. PMID: 32866119.

22: Kazmi N, Elliott HR, Burrows K, Tillin T, Hughes AD, Chaturvedi N, Gaunt TR, Relton CL. Associations between high blood pressure and DNA methylation. PLoS One. 2020 Jan 30;15(1):e0227728. doi: 10.1371/journal.pone.0227728. PMID: 31999706; PMCID: PMC6991984.

23: Jones S, Tillin T, Williams S, Eastwood SV, Hughes AD, Chaturvedi N. Type 2 diabetes does not account for ethnic differences in exercise capacity or skeletal muscle function in older adults. Diabetologia. 2020 Mar;63(3):624-635. doi: 10.1007/s00125-019-05055-w. Epub 2019 Dec 9. PMID: 31820039; PMCID: PMC6997264.

24: Eastwood SV, Chaturvedi N, Sattar N, Welsh PI, Hughes AD, Tillin T. Impact of Kidney Function on Cardiovascular Risk and Mortality: A Comparison of South Asian and European Cohorts. Am J Nephrol. 2019;50(6):425-433. doi: 10.1159/000503873. Epub 2019 Oct 30. PMID: 31665726; PMCID: PMC6892637.

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26: Garfield V, Joshi R, Garcia-Hernandez J, Tillin T, Chaturvedi N. The relationship between sleep quality and all-cause, CVD and cancer mortality: the Southall and Brent REvisited study (SABRE). Sleep Med. 2019 Aug;60:230-235. doi: 10.1016/j.sleep.2019.03.012. Epub 2019 Mar 27. PMID: 31182326; PMCID: PMC6626293.

27: Smith LA, Melbourne A, Owen D, Cardoso MJ, Sudre CH, Tillin T, Sokolska M, Atkinson D, Chaturvedi N, Ourselin S, Hughes AD, Barkhof F, Jäger HR. Cortical cerebral blood flow in ageing: effects of haematocrit, sex, ethnicity and diabetes. Eur Radiol. 2019 Oct;29(10):5549-5558. doi: 10.1007/s00330-019-06096-w. Epub 2019 Mar 18. PMID: 30887200; PMCID: PMC6719435.

28: Sudre CH, Smith L, Atkinson D, Chaturvedi N, Ourselin S, Barkhof F, Hughes AD, Jäger HR, Cardoso MJ. Cardiovascular Risk Factors and White Matter Hyperintensities: Difference in Susceptibility in South Asians Compared With Europeans. J Am Heart Assoc. 2018 Nov 6;7(21):e010533. doi: 10.1161/JAHA.118.010533. PMID: 30376748; PMCID: PMC6404219.

29: Leeuwis AE, Smith LA, Melbourne A, Hughes AD, Richards M, Prins ND, Sokolska

M, Atkinson D, Tillin T, Jäger HR, Chaturvedi N, van der Flier WM, Barkhof F. Cerebral Blood Flow and Cognitive Functioning in a Community-Based, Multi-Ethnic Cohort: The SABRE Study. Front Aging Neurosci. 2018 Sep 18;10:279. doi: 10.3389/fnagi.2018.00279. PMID: 30279656; PMCID: PMC6154257.

30: Sudre CH, Gomez Anson B, Davagnanam I, Schmitt A, Mendelson AF, Prados F, Smith L, Atkinson D, Hughes AD, Chaturvedi N, Cardoso MJ, Barkhof F, Jaeger HR, Ourselin S. Bullseye's representation of cerebral white matter hyperintensities. J Neuroradiol. 2018 Mar;45(2):114-122. doi: 10.1016/j.neurad.2017.10.001. Epub 2017 Nov 11. PMID: 29132940; PMCID: PMC5867449.

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Feb;61(2):506. doi: 10.1007/s00125-017-4515-9. PMID: 28905229.

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33: Park CM, Williams ED, Chaturvedi N, Tillin T, Stewart RJ, Richards M, Shibata D, Mayet J, Hughes AD. Associations Between Left Ventricular Dysfunction and Brain Structure and Function: Findings From the SABRE (Southall and Brent Revisited) Study. J Am Heart Assoc. 2017 Apr 18;6(4):e004898. doi: 10.1161/JAHA.116.004898. PMID: 28420646; PMCID: PMC5533007.

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36: Halonen JI, Dehbi HM, Hansell AL, Gulliver J, Fecht D, Blangiardo M, Kelly FJ, Chaturvedi N, Kivimäki M, Tonne C. Associations of night-time road traffic noise with carotid intima-media thickness and blood pressure: The Whitehall II and SABRE study cohorts. Environ Int. 2017 Jan;98:54-61. doi: 10.1016/j.envint.2016.09.023. Epub 2016 Oct 3. PMID: 27712935.

37: Park CM, Tillin T, March K, Jones S, Whincup PH, Mayet J, Chaturvedi N, Hughes AD. Adverse effect of diabetes and hyperglycaemia on arterial stiffness in Europeans, South Asians, and African Caribbeans in the SABRE study. J Hypertens. 2016 Feb;34(2):282-9. doi: 10.1097/HJH.0000000000000789. PMID: 26628109; PMCID: PMC4841389.

38: Eastwood SV, Tillin T, Sattar N, Forouhi NG, Hughes AD, Chaturvedi N. Associations Between Prediabetes, by Three Different Diagnostic Criteria, and Incident CVD Differ in South Asians and Europeans. Diabetes Care. 2015 Dec;38(12):2325-32. doi: 10.2337/dc15-1078. Epub 2015 Oct 20. PMID: 26486189; PMCID: PMC4868252.

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Godsland IF, Eastwood SV, McKeigue PM, Chaturvedi N. Diabetes risk and amino acid profiles: cross-sectional and prospective analyses of ethnicity, amino acids and diabetes in a South Asian and European cohort from the SABRE (Southall And Brent REvisited) Study. Diabetologia. 2015 May;58(5):968-79. doi: 10.1007/s00125-015-3517-8. Epub 2015 Feb 19. PMID: 25693751; PMCID: PMC4392114.

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**Consortia Manuscripts**

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3: Boyd A, Evans KM, Turner EL, et al. UK Longitudinal Linkage Collaboration (UK LLC): The National Trusted Research Environment for Longitudinal Research. Int J Popul Data Sci. 2025 Feb 17;10(1):2468. doi: 10.23889/ijpds.v10i1.2468. PMID: 40129687; PMCID: PMC11931487.

4: de Kort FAS, Vinke EJ, van der Lelij EJ, et al. Cerebral white matter hyperintensity volumes: Normative age- and sex-specific values from 15 population-based cohorts comprising 14,876 individuals. Neurobiol Aging. 2025 Feb;146:38-47. doi: 10.1016/j.neurobiolaging.2024.11.006. Epub 2024 Nov 20. PMID: 39602940; PMCID: PMC12087372.

5: NCD Risk Factor Collaboration (NCD-RisC). Worldwide trends in diabetes prevalence and treatment from 1990 to 2022: a pooled analysis of 1108 population-representative studies with 141 million participants. Lancet. 2024 Nov 23;404(10467):2077-2093. doi: 10.1016/S0140-6736(24)02317-1. Epub 2024 Nov 13. Erratum in: Lancet. 2025 Apr 5;405(10485):1146. doi: 10.1016/S0140-6736(25)00620-8. PMID: 39549716; PMCID: PMC7616842.

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11: NCD Risk Factor Collaboration (NCD-RisC). Global variation in diabetes diagnosis and prevalence based on fasting glucose and hemoglobin A1c. Nat Med. 2023 Nov;29(11):2885-2901. doi: 10.1038/s41591-023-02610-2. Epub 2023 Nov 9. PMID: 37946056; PMCID: PMC10667106.

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