

PUBLICATION LIST NEAR 2024

NEAR Projects*

Peer-reviewed articles

Abbadi, A., Kokoroskos, E., Stamets, M., Vetrano, D. L., Orsini, N., Elmståhl, S., Fagerström, C., Wimo, A., Sköldunger, A., Berglund, J. S., Olsson, C. B., Wachtler, C., Fratiglioni, L., & Calderón-Larrañaga, A. (2024). Validation of the Health Assessment Tool (HAT) based on four aging cohorts from the Swedish National study on Aging and Care. *BMC medicine*, 22(1), 236.

<https://doi.org/10.1186/s12916-024-03454-4>

Finkel, D., Gatz, M., Franz, C. E., Catts, V. S., Christensen, K., Kremen, W., Nygaard, M., Plassman, B. L., Sachdev, P. S., Whitfield, K., Pedersen, N. L. (2024). Age and sex differences in the genetic architecture of measures of subjective health: Relationships with physical health, depressive symptoms, and episodic memory. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*, 79(6), gbae062. <https://doi.org/10.1093/geronb/gbae062>

Graham, E. K., Beck, E. D., Jackson, K., Yoneda, T., McGhee, C., Pieramici, L., ... & Ong, A. D. (2024). Do we become more lonely with age? A coordinated data analysis of nine longitudinal studies. *Psychological science*, 35(6), 579-596. <https://doi.org/10.1177/09567976241242037>

Hernandez, R., Jin, H., Lee, P. J., Schneider, S., Junghaenel, D. U., Stone, A. A., ... & Zelinski, E. M. (2024). Attrition from longitudinal ageing studies and performance across domains of cognitive functioning: an individual participant data meta-analysis. *BMJ open*, 14(3), e079241.

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Javeed, Ashir., Anderberg, Peter., Ghazi, Ahmad Nauman., Noor, Adeeb., Elmståhl, Sölve., Berglund, Johan. (2024). Breaking barriers: a statistical and machine learning-based hybrid system for predicting dementia. *Frontiers in Bioengineering and Biotechnology*, 11:1336255.

<https://doi.org/10.3389/fbioe.2023.1336255>

Javeed, A., Anderberg, P., Saleem, M.A., Ghazi, A.N. and Sanmartin Berglund, J. (2024), Unveiling Cancer: A Data-Driven Approach for Early Identification and Prediction Using F-RUS-RF Model.

Int J Imaging Syst Technol, 34:e23221. <https://doi.org/10.1002/ima.23221>

Lopes De Oliveira, T., Tang, B., Bai, G., Sjölander, A., Jylhävä, J., Finkel, D., Pedersen, N. L., Hassing, L. B., Reynolds, C. A., Karlsson, I. K., & Hägg, S. (2024). Effects from medications on functional biomarkers of aging in three longitudinal studies of aging in Sweden. *Aging Cell*, 23,

e14132. <https://doi.org/10.1111/accel.14132>

Lindberg, T., Sanmartin Berglund, J., Wimo, A., Qiu, C., Bohman, D. M., Elmståhl, S. (2024). Prevalence of Atrial Fibrillation and Long-Term Survival of Older Adults; Findings from the SNAC Study. *Gerontol Geriatr Med*, 10:23337214241304887. <https://doi.org/10.1177/23337214241304887>

Mukadam, N., Wolters, F. J., Walsh, S., Wallace, L., Brayne, C., Matthews, F. E., Sacuiu, S., Skoog, I., Seshadri, S., Beiser, A., Ghosh, S., & Livingston, G. (2024). Changes in prevalence and incidence of dementia and risk factors for dementia: an analysis from cohort studies. *The Lancet Public Health*, 9(7), e443–e460. [https://doi.org/10.1016/s2468-2667\(24\)00120-8](https://doi.org/10.1016/s2468-2667(24)00120-8)

Nagel, G., Chen, J., Jaensch, A., Skodda, L., Rodopoulou, S., Strak, M., de Hoogh, K., Andersen, Z. J., Bellander, T., Brandt, J., Fecht, D., Forastiere, F., Gulliver, J., Hertel, O., Hoffmann, B., Hvidtfeldt, U. A., Katsouyanni, K., Ketzel, M., Leander, K., Magnusson, P. K. E., ... Weinmayr, G.

(2024). Long-term exposure to air pollution and incidence of gastric and the upper aerodigestive tract cancers in a pooled European cohort: The ELAPSE project. *International Journal of Cancer*, 154(11), 1900–1910. <https://doi.org/10.1002/ijc.34864>

Persson, Å., Pyko, A., Stucki, L., Ögren, M., Åkesson, A., Oudin, A., Tjønneland, A., Rosengren, A., Segersson, D., Rizzuto, D., Helte, E., Andersson, E. M., Aasvang, G. M., Gudjonsdottir, H., Selander, J., Christensen, J. H., Leander, K., Mattisson, K., Eneroth, K., Barregard, L., ... Eriksson, C. (2024). Long-term exposure to transportation noise and obesity: A pooled analysis of eleven Nordic cohorts. *Environmental Epidemiology*, 8(4), e319. <https://doi.org/10.1097/EE9.0000000000000319>

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Thacher, J. D., Roswall, N., Ögren, M., Pyko, A., Åkesson, A., Oudin, A., Rosengren, A., Poulsen, A. H., Eriksson, C., Segersson, D., Rizzuto, D., Helte, E., Andersson, E. M., Aasvang, G. M., Engström, G., Gudjonsdottir, H., Selander, J., Christensen, J. H., Brandt, J., Leander, K., ... Sørensen, M. (2024). Residential exposure to transportation noise and risk of incident atrial fibrillation: a pooled study of 11 prospective Nordic cohorts. *The Lancet Regional Health. Europe*, 46, 101091. <https://doi.org/10.1016/j.lanepe.2024.101091>

Thiesmeier, R., Abbadi, A., Rizzuto, D., Calderón-Larrañaga, A., Hofer, S. M., & Orsini, N. (2024). Multiple imputation of systematically missing data on gait speed in the Swedish National Study on Aging and Care. *Aging*, 16(4), 3056–3067. <https://doi.org/10.18632/aging.205552>

Weinmayr, G., Chen, J., Jaensch, A., Skodda, L., Rodopoulou, S., Strak, M., de Hoogh, K., Andersen, Z. J., Bellander, T., Brandt, J., Fecht, D., Forastiere, F., Gulliver, J., Hertel, O., Hoffmann, B., Hvidtfeldt, U. A., Katsouyanni, K., Ketznel, M., Leander, K., Magnusson, P. K. E., ... Nagel, G. (2024). Long-term exposure to several constituents and sources of PM_{2.5} is associated with incidence of upper aerodigestive tract cancers but not gastric cancer: Results from the large pooled European cohort of the ELAPSE project. *The Science of the Total Environment*, 912, 168789. <https://doi.org/10.1016/j.scitotenv.2023.168789>

Thesis

Dove, Abigail (2024). Cardiometabolic disease and dementia risk : identifying compensatory factors. Karolinska Institutet. Thesis. <https://doi.org/10.69622/26053003.v1>

Ler, Peggy (2024). Disentangling the body mass index, metabolic health and aging connection : weighty matters. Karolinska Institutet. Thesis. <https://doi.org/10.69622/26893969.v2>

*Using two or more databases included in NEAR.

Publications by the local NEAR databases

The BETULA Project

Peer-reviewed articles

Boen, R., Kaufmann, T., van der Meer, D., Frei, O., Agartz, I., Ames, D., Andersson, M., Armstrong, N. J., Artiges, E., Atkins, J. R., Bauer, J., Benedetti, F., Boomsma, D. I., Brodaty, H., Brosch, K., Buckner, R. L., Cairns, M. J., Calhoun, V., Caspers, S., ... Sønderby, I. E. (2024). Beyond the Global Brain Differences: Intraindividual Variability Differences in 1q21.1 Distal and 15q11.2 BP1-BP2 Deletion Carriers. *Biological Psychiatry*, 95(2), 147–160.

<https://doi.org/10.1016/j.biopsych.2023.08.018>

Davis, P. A., Trotter, M., Åström, E., & Rønnlund, M. (2024). Balancing Time for Health Behaviors: Associations of Time Perspective With Physical Activity and Weight Management in Older Adults. *American Journal of Health Promotion*, 38(7), 960–969.

<https://doi.org/10.1177/08901171241242546>

Ge, R., Yu, Y., Qi, Y. X., Fan, Y., Chen, S., Gao, C., Haas, S. S., New, F., Boomsma, D. I., Brodaty, H., Brouwer, R. M., Buckner, R., Caseras, X., Crivello, F., Crone, E. A., Erk, S., Fisher, S. E., Franke, B., Glahn, D. C., ... Yu, K. (2024). Normative modelling of brain morphometry across the lifespan with CentileBrain: algorithm benchmarking and model optimisation. *The Lancet Digital Health*, 6(3), e211–e221. [https://doi.org/10.1016/S2589-7500\(23\)00250-9](https://doi.org/10.1016/S2589-7500(23)00250-9)

Raza, W., Öhman, A., Kanninen, K. M., Jalava, P., Zeng, X.-W., de Crom, T. O. E., ... Oudin, A. (2024). Metabolic profiles associated with exposure to ambient particulate air pollution : findings from the Betula cohort. *Frontiers in Public Health*, 12. <https://doi.org/10.3389/fpubh.2024.1401006>

Ronat, L., Rønnlund, M., Adolfsson, R., Hanganu, A., & Pudas, S. (2024). Revised Temperament and Character Inventory factors predict neuropsychiatric symptoms and aging-related cognitive decline across 25 years. *Frontiers in Aging Neuroscience*, 16, 1335336.

<https://doi.org/10.3389/FNAGI.2024.1335336/BIBTEX>

Roe, J. M., Vidal-Piñeiro, D., Sørensen, Ø., Grydeland, H., Leonardsen, E. H., Iakunchykova, O., Pan, M., Mowinckel, A., Strømstad, M., Nawijn, L., Milaneschi, Y., Andersson, M., Pudas, S., Bråthen, A. C. S., Kransberg, J., Falch, E. S., Øverbye, K., Kievit, R. A., Ebmeier, K. P., Nyberg, L., ... Wang, Y. (2024). Brain change trajectories in healthy adults correlate with Alzheimer's related genetic variation and memory decline across life. *Nature Communications*, 15(1), 1–19.

<https://doi.org/10.1038/s41467-024-53548-z>

Sörman, D. E., Åström, E., Ahlström, M., Adolfsson, R., & Ljungberg, J. K. (2024). The influence of personality traits on engagement in lifelong learning. *International Journal of Lifelong Education*, 43(2–3), 259–276. <https://doi.org/10.1080/02601370.2024.2343013>

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Vega-Mendoza, M., Eriksson Sörman, D., Josefsson, M., & Ljungberg, J. K. (2024). A longitudinal study of episodic memory recall in multilinguals. *International Journal of Bilingualism*, 28(1), 125–145. <https://doi.org/10.1177/13670069221139155>

Books and Chapters

Nyberg, L. (2024). (Super)Aging and Memory: What's special about older individuals with well-maintained brain and cognition? In *Learning and Memory: A Comprehensive Reference* (3rd Ed.), Systems Neuroscience (Ed. M. Rugg).

The Gothenburg H70 Birth Cohort Studies (H70, H85, H95 and PPSW)

Peer-reviewed articles

- Bergström, S., Mravinacová, S., Lindberg, O., Zettergren, A., Westman, E., Wahlund, L., Blennow, K., Zetterberg, H., Kern, S., Skoog, I., & Månberg, A. (2024). CSF levels of brain-derived proteins correlate with brain ventricular volume in cognitively healthy 70-year-olds. *Clinical Proteomics*, 21(1). <https://doi.org/10.1186/s12014-024-09517-1>
- Borda, M. G., Samuelsson, J., Cederholm, T., Baldera, J. P., Pérez-Zepeda, M. U., Barreto, G. E., Zettergren, A., Kern, S., Rydén, L., Gonzalez-Lara, M., Salazar-Londoño, S., Duque, G., Skoog, I., & Aarsland, D. (2024). Nutrient Intake and Its Association with Appendicular Total Lean Mass and Muscle Function and Strength in Older Adults: A Population-Based Study. *Nutrients*, 16(4), 568. <https://doi.org/10.3390/nu16040568>
- Borda, M. G., Baldera, J. P., Samuelsson, J., Zettergren, A., Rydén, L., Westman, E., Pérez-Zepeda, M. U., Kern, S., Venegas, L. C., Duque, G., Skoog, I., & Aarsland, D. (2024). Temporal muscle thickness: a practical approximation for assessing muscle mass in older adults. *Journal of the American Medical Directors Association*, 25(4), 664-670.e3. <https://doi.org/10.1016/j.jamda.2023.12.009>
- Constantinescu, C., Wikkelsø, C., Westman, E., Ziegelitz, D., Jaraj, D., Rydén, L., Skoog, I., & Tullberg, M. (2024). Prevalence of possible idiopathic normal pressure hydrocephalus in Sweden. *Neurology*, 102(2). <https://doi.org/10.1212/wnl.0000000000208037>
- Dittrich, A., Westman, E., Shams, S., Skillbäck, T., Zetterberg, H., Blennow, K., Zettergren, A., Skoog, I., & Kern, S. (2024). Proportion of Community-Dwelling individuals older than 70 years eligible for Lecanemab initiation. *Neurology*, 102(9). <https://doi.org/10.1212/wnl.0000000000209402>
- Guo, X., Hällström, T., Johansson, L., Najar, J., Wetterberg, H., Sacuiu, S., Kern, S., & Skoog, I. (2024). Midlife stress-related exhaustion and dementia incidence: a longitudinal study over 50 years in women. *BMC Psychiatry*, 24(1). <https://doi.org/10.1186/s12888-024-05868-z>
- Klenfeldt, I. F., Skoog, G., Skoog, J., & Skoog, I. (2024). The natural history of lifetime psychiatric disorders in patients with obsessive-compulsive disorder followed over half a century. *Acta Psychiatrica Scandinavica*, 149(4), 284–294. <https://doi.org/10.1111/acps.13665>
- Lennon, M. J., Lipnicki, D. M., Lam, B. C. P., Crawford, J. D., Schutte, A. E., Peters, R., Rydberg-Sterner, T., Najar, J., Skoog, I., Riedel-Heller, S. G., Röhr, S., Pabst, A., Lobo, A., De-La-Cámara, C., Lobo, E., Lipton, R. B., Katz, M. J., Derby, C. A., Kim, K. W., . . . Sachdev, P. S. (2024). Blood pressure, antihypertensive use, and Late-Life Alzheimer and Non-Alzheimer dementia risk. *Neurology*, 103(5). <https://doi.org/10.1212/wnl.0000000000209715>
- Lin, K., Wen, W., Lipnicki, D. M., Mewton, L., Chen, R., Du, J., Wang, D., Skoog, I., Sterner, T. R., Najar, J., Kim, K. W., Han, J. W., Kim, J. S., Ng, T. P., Ho, R., Chua, D. Q. L., Anstey, K. J., Cherbuin, N., Mortby, M. E., . . . Jiang, J. (2024). Risk factors and cognitive correlates of white matter hyperintensities in ethnically diverse populations without dementia: The COSMIC consortium. *Alzheimer S & Dementia Diagnosis Assessment & Disease Monitoring*, 16(1). <https://doi.org/10.1002/dad2.12567>
- Lindell, E., Finizia, C., Davidsson, H., Kollen, L., Kern, S., Skoog, I., & Rydén, L. (2024). Prevalence of benign paroxysmal positional vertigo in a population-based setting among 75-year-

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Matson, A. P., Flood, V. M., Lam, B. C., Lipnicki, D. M., Tucker, K. L., Preux, P., Guerchet, M., D’Orsi, E., Quialheiro, A., Rech, C. R., Skoog, I., Najar, J., Sterner, T. R., Scarmeas, N., Kosmidis, M. H., Yannakoulia, M., Gureje, O., Ojagbemi, A., Bello, T., . . . Mather, K. A. (2024). Associations between fruit and vegetable intakes and incident depression in middle-aged and older adults from 10 diverse international longitudinal cohorts. *Journal of Affective Disorders*, 359, 373–381. <https://doi.org/10.1016/j.jad.2024.05.096>

Rennie, A., Ekman, U., Shams, S., Rydén, L., Samuelsson, J., Zettergren, A., Kern, S., Oppedal, K., Blanc, F., Hort, J., Garcia-Ptacek, S., Antonini, A., Lemstra, A. W., Padovani, A., Kramberger, M. G., Rektorová, I., Walker, Z., Snædal, J., Pardini, M., . . . Ferreira, D. (2024). Cerebrovascular and Alzheimer’s disease biomarkers in dementia with Lewy bodies and other dementias. *Brain Communications*, 6(5). <https://doi.org/10.1093/braincomms/fcae290>

Rymo, I., Zetterberg, H., Blennow, K., Kern, S., Skoog, I., Sacuiu, S., & Waern, M. (2024). High CSF neurogranin level is related to lifetime reports of passive suicidal ideation in a population-based sample of older adults. *Journal of Psychiatric Research*, 181, 340–347. <https://doi.org/10.1016/j.jpsychires.2024.11.044>

Seidu, N. M., Kern, S., Sacuiu, S., Sterner, T. R., Blennow, K., Zetterberg, H., Lindberg, O., Ferreira, D., Westman, E., Zettergren, A., & Skoog, I. (2024). Association of CSF biomarkers with MRI brain changes in Alzheimer’s disease. *Alzheimer S & Dementia Diagnosis Assessment & Disease Monitoring*, 16(1). <https://doi.org/10.1002/dad2.12556>

Srikrishna, M., Ashton, N. J., Moscoso, A., Pereira, J. B., Heckemann, R. A., van Westen, D., Volpe, G., Simrén, J., Zettergren, A., Kern, S., Wahlund, L. O., Gyanwali, B., Hilal, S., Ruifen, J. C., Zetterberg, H., Blennow, K., Westman, E., Chen, C., Skoog, I., & Schöll, M. (2024). CT-based volumetric measures obtained through deep learning: Association with biomarkers of neurodegeneration. *Alzheimer's & dementia: the Journal of the Alzheimer's Association*, 20(1), 629–640. <https://doi.org/10.1002/alz.13445>

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Wetterberg, H., Najar, J., Sterner, T. R., Kern, S., & Skoog, I. (2024). The effect of diagnostic criteria on dementia Prevalence – A Population-Based Study from Gothenburg, Sweden. *American Journal of Geriatric Psychiatry*, 32(2), 230–243. <https://doi.org/10.1016/j.jagp.2023.08.018>

Winzell Juhlin, Å., Rosenhall, U., Wallström Berg, B., Hoff, M., Wetterberg, H., Rydén, L., Skoog, I., & Sadeghi, A. (2024). Hearing acuity in nonagenarians aged 90 and 95 assessed in a home setting

using standardized pure-tone audiometry. *International Journal of Audiology*, 64(2)145–155.
<https://doi.org/10.1080/14992027.2024.2329710>

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<https://doi.org/10.1186/s12886-024-03299-8>

Xu, Y., McFall, G. P., Rydén, L., Skoog, J., Chang, E., Cysique, L. A., Harris, K., Kedwell, S., Lim, M. L., Anstey, K. J., Anderson, C. S., Dixon, R. A., Skoog, I., Tully, P. J., & Peters, R. (2024). Cumulative blood pressure load and cognitive decline in older adults: an observational analysis of two large cohorts. *Cerebral Circulation - Cognition and Behavior*, 8:100375.
<https://doi.org/10.1016/j.cccb.2024.100375>

Zapater-Fajari, M., Diaz-Galvan, P., Cedres, N., Sterner, T. R., Rydén, L., Sacuiu, S., Waern, M., Zettergren, A., Zetterberg, H., Blennow, K., Kern, S., Hidalgo, V., Salvador, A., Westman, E., Skoog, I., & Ferreira, D. (2024). Biomarkers of Alzheimer's disease and cerebrovascular disease in relation to depressive symptomatology in individuals with subjective cognitive decline. *The Journals of Gerontology Series A*, 79(2). <https://doi.org/10.1093/gerona/glad216>

Thesis

Havstam Johansson, L. (2024). Visual function and functional vision – ophthalmological perspectives on a normal population. University of Gothenburg.

Lorenzon, G. (2024). Brain heterogeneity within aging and cognitive impairment: implications for precision medicine and prevention. Karolinska Institutet.

The Swedish Adoption/Twin Study of Aging (SATSA)

Peer-reviewed articles

Beam, C., & Sharp, E. S. (2024). Person-environment fit underlying personality development in middle and late adulthood. *Innovation in Aging*, 8(Supplement_1), 68-68.

<https://doi.org/10.1093/geroni/igae098.0214>

Finkel, D., Nilsen, C., Sindi, S., & Kåreholt, I. (2024). Impact of childhood and adult socioeconomic position on change in functional aging. *Health Psychology: Official Journal of the Division of Health Psychology, American Psychological Association*, 43(5), 388-395.

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Mak J, Skovgaard A, Nygaard M, Kananen L, Reynolds C, Wang Y, Kuja-Halkola R, Karlsson I, Pedersen N, Hagg S, Soerensen M, Jylhava J (2024). Epigenome-wide analysis of frailty: Results from two European twin cohorts. *Aging Cell*, 23(6):e14135. <https://doi.org/10.1111/accel.14135>

Matison, A. P., Thalamuthu, A., Flood, V. M., Catts, V. S., Christensen, K., Nygaard, M., ... & Interplay of Genes and Environment across Multiple Studies (IGEMS) consortium. (2024). Longitudinal associations between fruit and vegetable intakes and depressive symptoms in middle-aged and older adults from four international twin cohorts. *Scientific Reports*, 14(1): 29711.

<https://doi.org/10.1038/s41598-024-79963-2>

Pilgrim, M. J., Beam, C. R., Nygaard, M., & Finkel, D. (2024). Prospective Effects of Self-Rated Health on Dementia Risk in Two Twin Studies of Aging. *Behavior Genetics*, 54: 307-320.

<https://doi.org/10.1007/s10519-024-10182-1>

Wikström Shemer, D., Mostafaei, S., Tang, B., Pedersen, N. L., Karlsson, I. K., Fall, T., & Hägg, S. (2024). Associations between epigenetic aging and diabetes mellitus in a Swedish longitudinal study. *GeroScience*, 46(5), 5003-5014. <https://doi.org/10.1007/s11357-024-01252-7>

Screening Across the Lifespan Twin Study (SALT)

Peer-reviewed articles

Ericsson M, Finch B, Karlsson I, Gatz M, Reynolds C, Pedersen N, Mosing M, Schafer M. (2024). Educational Influences on Late-Life Health: Genetic Propensity and Attained Education. *Journals of Gerontology: Series B, Psychological Sciences and Social Sciences* 79(1):gbad153.
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Sjölander, A., Frisell, T., Öberg, S., Wang, Y., & Hägg, S. (2024). Combining Mendelian randomization with the sibling comparison design. *Statistics in medicine*, 43(4), 731–755.
<https://doi.org/10.1002/sim.9983>

The Swedish National study on Aging and Care – Kungsholmen (SNAC-K) and The Kungsholmen Project (KP)

Peer-reviewed articles

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