

DAFTAR PUSTAKA

- Aam, S., Gynnild, M.N., Munthe-Kaas, R., Saltvedt, I., Lydersen, S., Knapskog, A.-B., Ihle-Hansen, H., Ellekjær, H., Eldholm, R.S., Fure, B., 2021. The Impact of Vascular Risk Factors on Post-stroke Cognitive Impairment: The Nor-COAST Study. *Front Neurol* Volume 12-2021. <https://doi.org/10.3389/fneur.2021.678794>
- Abcar, A.C., Chan, L., Yeoh, H., 2004. What to do for the patient with minimally elevated creatinine level? *Perm. J.* 8, 51–53.
- Abe, K., Yamashita, T., Hishikawa, N., Ohta, Y., Deguchi, K., Sato, K., Matsuzono, K., Nakano, Y., Ikeda, Y., Wakutani, Y., Takao, Y., 2015. A new simple score (ABS) for assessing behavioral and psychological symptoms of dementia. *J Neurol Sci* 350, 14–17. <https://doi.org/https://doi.org/10.1016/j.jns.2015.01.029>
- Agrawal, M., Agrawal, A.K., 2022. Pathophysiological association between diabetes mellitus and Alzheimer's disease. *Cureus* 14, e29120.
- Akhter, F., Persaud, A., Zaokari, Y., Zhao, Z., Zhu, D., 2021. Vascular Dementia and Underlying Sex Differences. *Front Aging Neurosci.* <https://doi.org/10.3389/fnagi.2021.720715>
- Alber, J., Alladi, S., Bae, H.-J., Barton, D.A., Beckett, L.A., Bell, J.M., Berman, S.E., Biessels, G.J., Black, S.E., Bos, I., Bowman, G.L., Brai, E., Brickman, A.M., Callahan, B.L., Coriveau, R.A., Fossati, S., Gottesman, R.F., Gustafson, D.R., Hachinski, V., Hayden, K.M., Helman, A.M., Hughes, T.M., Isaacs, J.D., Jefferson, A.L., Johnson, S.C., Kapasi, A., Kern, S., Kwon, J.C., Kukolja, J., Lee, A., Lockhart, S.N., Murray, A., Osborn, K.E., Power, M.C., Price, B.R., Rhodius-Meester, H.F.M., Rondeau, J.A., Rosen, A.C., Rosene, D.L., Schneider, J.A., Scholtzova, H., Shaaban, C.E., Silva, N.C.B.S., Snyder, H.M., Swardfager, W., Troen, A.M., van Veluw, S.J., Vemuri, P., Wallin, A., Wellington, C., Wilcock, D.M., Xie, S.X., Hainsworth, A.H., 2019. White matter hyperintensities in vascular contributions to cognitive impairment and dementia (VCID): Knowledge gaps and opportunities. *Alzheimer's & Dementia: Translational Research & Clinical Interventions* 5, 107–117. <https://doi.org/https://doi.org/10.1016/j.trci.2019.02.001>
- Alsharif, Alaa A, Wei, Li, Ma, Tiantian, Man, Kenneth K C, Lau, Wallis C Y, Brauer, Ruth, Almetwazi, Mansour, Howard, Rob, Wong, Ian C K, 2020. Prevalence and Incidence of Dementia in People with Diabetes Mellitus. *Journal of Alzheimer's Disease* 75, 607–615. <https://doi.org/10.3233/JAD-191115>

- American Diabetes Association, 2023. 2. Diagnosis and Classification of Diabetes: Standards of Care in Diabetes—2024. *Diabetes Care* 47, S20–S42. <https://doi.org/10.2337/dc24-S002>
- American Diabetes Association, 2004. Diagnosis and Classification of Diabetes Mellitus. *Diabetes Care* 27, s5–s10. <https://doi.org/10.2337/diacare.27.2007.S5>
- Andel, R., Crowe, M., Hahn, E.A., Mortimer, J.A., Pedersen, N.L., Fratiglioni Laura and Johansson, B., Gatz, M., 2012. Work-related stress may increase the risk of vascular dementia. *J. Am. Geriatr. Soc.* 60, 60–67.
- Anjum, I., Fayyaz, M., Wajid, A., Sohail, W., Ali, A., 2018. Does obesity increase the risk of dementia: A literature review. *Cureus* 10, e2660.
- Bandyopadhyay, T.K., Biswas, A., Roy, A., Guin, D.S., Gangopadhyay, G., Sarkhel, S., Ghoshal, M.K., Senapati, A.K., 2014. Neuropsychiatric profiles in patients with Alzheimer’s disease and vascular dementia. *Ann Indian Acad Neurol* 17.
- Bastos-Leite, A.J., van der Flier, W.M., van Straaten, E.C.W., Staekenborg, S.S., Scheltens, P., Barkhof, F., 2007. The Contribution of Medial Temporal Lobe Atrophy and Vascular Pathology to Cognitive Impairment in Vascular Dementia. *Stroke* 38, 3182–3185. <https://doi.org/10.1161/STROKEAHA.107.490102>
- Bir, S.C., Khan, M.W., Javalkar, V., Toledo, E.G., Kelley, R.E., 2021. Emerging Concepts in Vascular Dementia: A Review. *Journal of Stroke and Cerebrovascular Diseases* 30, 105864. <https://doi.org/10.1016/J.JSTROKECEREBROVASDIS.2021.105864>
- Birtcher, K.K., Ballantyne, C.M., 2004. Measurement of Cholesterol. *Circulation* 110, e296–e297. <https://doi.org/10.1161/01.CIR.0000141564.89465.4E>
- Blinkouskaya, Y., Caçoilo, A., Gollamudi, T., Jalalian, S., Weickenmeier, J., 2021. Brain aging mechanisms with mechanical manifestations. *Mech Ageing Dev* 200, 111575. <https://doi.org/10.1016/J.MAD.2021.111575>
- Blom, K., Emmelot-Vonk, M.H., Koek, H. (Dineke) L., 2013. The influence of vascular risk factors on cognitive decline in patients with dementia: A systematic review. *Maturitas* 76, 113–117. <https://doi.org/10.1016/j.maturitas.2013.06.011>
- Brain, J., Greene, L., Tang, E.Y.H., Louise, J., Salter, A., Beach, S., Turnbull, D., Siervo, M., Stephan, B.C.M., Tully, P.J., 2023. Cardiovascular disease, associated risk factors, and risk of dementia: An umbrella review of meta-analyses. *Frontiers in Epidemiology* 3. <https://doi.org/10.3389/fepid.2023.1095236>

- Calsolaro, V., Femminella, G.D., Rogani, S., Esposito, S., Franchi, R., Okoye, C., Rengo, G., Monzani, F., 2021. Behavioral and Psychological Symptoms in Dementia (BPSD) and the Use of Antipsychotics. *Pharmaceuticals* 14. <https://doi.org/10.3390/ph14030246>
- Cantone, M., Lanza, G., Fisicaro, F., Pennisi, M., Bella, R., Di Lazzaro, V., Di Pino, G., 2020. Evaluation and Treatment of Vascular Cognitive Impairment by Transcranial Magnetic Stimulation. *Neural Plast* 2020, 8820881. <https://doi.org/https://doi.org/10.1155/2020/8820881>
- Cao, Q., Tan, C.-C., Xu, W., Hu, H., Cao, X.-P., Dong, Q., Tan, L., Yu, J.-T., 2020. The prevalence of dementia: A systematic review and meta-analysis. *J. Alzheimers. Dis.* 73, 1157–1166.
- Carcaillon, L., Brailly-Tabard, S., Ancelin, M.-L., Tzourio, C., Foubert-Samier, A., Dartigues, J.-F., Guiochon-Mantel, A., Scarabin, P.-Y., 2014. Low testosterone and the risk of dementia in elderly men: Impact of age and education. *Alzheimer's & Dementia* 10, S306–S314. <https://doi.org/https://doi.org/10.1016/j.jalz.2013.06.006>
- Carcaillon, L., Gaussem, P., Ducimetiere, P., Giroud, M., Ritchie, K., Dartigues, J.F., Scarabin, P.Y., 2009. Elevated plasma fibrin D-dimer as a risk factor for vascular dementia: the Three-City cohort study. *Journal of Thrombosis and Haemostasis* 7, 1972–1978. <https://doi.org/https://doi.org/10.1111/j.1538-7836.2009.03603.x>
- Celentano, D.D., Szklo, M., 2019. *Gordis Epidemiology*, 6th ed. Elsevier Inc., Philadelphia.
- Celis-Morales, C.A., Franzén, S., Eeg-Olofsson, K., Naucler, E., Svensson, A.-M., Gudbjornsdottir, S., Eliasson, B., Sattar, N., 2022. Type 2 Diabetes, Glycemic Control, and Their Association With Dementia and Its Major Subtypes: Findings From the Swedish National Diabetes Register. *Diabetes Care* 45, 634–641. <https://doi.org/10.2337/dc21-0601>
- Chakraborty, S., Mandal, S., Kundu, S., Sau, A., 2022. Correlation between Clinical Dementia Rating and brain neuroimaging metrics of Alzheimer's disease: An observational study from a tertiary care institute of Eastern India. *Archives of Mental Health* 23.
- Chandra, S., Yadav, R., Puneeth, C., Saini, J., Gregor Issac, T., 2014. 38 JOURNAL OF THE ASSOCIATION OF PHYSICIANS OF INDIA • VOL 62 • PUBLISHED ON 1ST OF EVERY MONTH 'The Spectrum of Vascular Dementia'-A Retrospective Study from South India.
- Chang Wong, E., Chang Chui, H., 2022. Vascular Cognitive Impairment and Dementia. *Continuum (Minneap. Minn.)* 28, 750–780.

- Chazan, B., 2022. What Is “Education”?, in: Chazan, B. (Ed.), *Principles and Pedagogies in Jewish Education*. Springer International Publishing, Cham, pp. 13–21. https://doi.org/10.1007/978-3-030-83925-3_3
- Chen, X., 2022. Effectiveness of cognitive stimulation therapy (CST) on cognition, quality of life and neuropsychiatric symptoms for patients living with dementia: A meta-analysis. *Geriatr Nurs (Minneap)* 47, 201–210. <https://doi.org/https://doi.org/10.1016/j.gerinurse.2022.07.012>
- Chen, Y., Lv, C., Li, X., Zhang Junying and Chen, K., Liu, Z., Li, H., Fan Jialing and Qin, T., Luo, L., Zhang, Z., 2019. The positive impacts of early-life education on cognition, leisure activity, and brain structure in healthy aging. *Aging (Albany NY)* 11, 4923–4942.
- Cloak, N., Schoo, C., Al Khalili, Y., 2024. *Behavioral and Psychological Symptoms in Dementia*. StatPearls Publishing, Treasure Island.
- Cohen, E., Kramer, M., Shochat, T., Goldberg, E., Krause, I., 2017. Relationship between hematocrit levels and intraocular pressure in men and women: A population-based cross-sectional study. *Medicine* 96.
- Collins, W.A., Welsh, D.P., Furman, W., 2009. Adolescent Romantic Relationships. *Annu Rev Psychol* 60, 631–652. <https://doi.org/https://doi.org/10.1146/annurev.psych.60.110707.163459>
- Davis, M.A., Lee, K.A., Harris, M., Ha, J., Langa, K.M., Bynum, J.P.W., Hoffman, G.J., 2022. Time to dementia diagnosis by race: A retrospective cohort study. *J Am Geriatr Soc* 70, 3250–3259. <https://doi.org/https://doi.org/10.1111/jgs.18078>
- Deskianditya, R.B., Astuti, A., Yudiyanta, Y., 2021. Caregiver’s burden and age are related determinants to quality of life in people with dementia. *Journal of Community Empowerment for Health* 4, 94. <https://doi.org/10.22146/jcoemph.60432>
- D’Onofrio, G., Sancarlo, D., Addante, F., Ciccone, F., Cascavilla, L., Paris, F., Picoco, M., Nuzzaci, C., Elia, A.C., Greco, A., Chiarini, R., Panza, F., Pilotto, A., 2015. Caregiver burden characterization in patients with Alzheimer’s disease or vascular dementia. *Int J Geriatr Psychiatry* 30, 891–899. <https://doi.org/10.1002/gps.4232>
- Drew, D.A., 2023. Albuminuria, Cognitive Impairment, and Structural Brain Disease: Connecting the Brain and Kidney. *Kidney Med* 5. <https://doi.org/10.1016/j.xkme.2023.100609>
- Driscoll, I., Beydoun, M.A., An, Y., Davatzikos, C., Ferrucci, L., Zonderman, A.B., Resnick, S.M., 2012. Midlife obesity and trajectories of brain volume changes in older adults. *Hum. Brain Mapp.* 33, 2204–2210.

- Duong, S., Patel, T., Chang, F., 2017. Dementia: What pharmacists need to know. *Canadian Pharmacists Journal / Revue des Pharmaciens du Canada* 150, 118–129. <https://doi.org/10.1177/1715163517690745>
- Durrani, R., Badhwar, A., Bhangu, J., Ganesh, A., Black, S.E., Barber, P.A., Frayne, R., Field, T.S., Hachinski, V., Sahlas, D., Mai, L.M., Sharma, M., Swartz, R.H., Smith, E.E., 2022. Vascular Brain Lesions, Cognitive Reserve, and Their Association with Cognitive Profile in Persons with Early-Stage Cognitive Decline. *J Alzheimers Dis Rep* 6, 607–616. <https://doi.org/10.3233/ADR-220054>
- Elias, M.F., Elias, P.K., Seliger, S.L., Narsipur, S.S., Dore, G.A., Robbins, M.A., 2009. Chronic kidney disease, creatinine and cognitive functioning. *Nephrology Dialysis Transplantation* 24, 2446–2452. <https://doi.org/10.1093/ndt/gfp107>
- Erkinjuntti, T., Vataja, R., Leppävuori, A., 2000. Behavioral and Psychological Symptoms of Dementia and Vascular Dementia. *Int Psychogeriatr* 12, 195–200. <https://doi.org/https://doi.org/10.1017/S104161020000702X>
- Eyth, E., Naik, R., 2024. Hemoglobin A1C. StatPearls Publishing, Treasure Island.
- Ferreira, A.R., Dias, C.C., Simões, M.R., Abe, K., Fernandes, L., 2021. Portuguese ABE's BPSD score (ABS): exploring agreement between ABS items and neuropsychiatric inventory domains. *European Psychiatry* 64, S428–S428. <https://doi.org/DOI:10.1192/j.eurpsy.2021.1141>
- Fillit, H., Hill, J., 2002. The costs of vascular dementia: a comparison with Alzheimer's disease. *J. Neurol. Sci.* 203–204, 35–39.
- Forette, F., Seux, M.-L., Staessen, J.A., Thijs, L., Birkenhäger, W.H., Babarskiene, M.-R., Babeanu, S., Bossini, A., Gil-Extremera, B., Girerd, X., Laks, T., Lilov, E., Moisseiev, V., Tuomilehto, J., Vanhanen, H., Webster, J., Yodanis, C., Fagard, R., 1998. Prevention of dementia in randomised double-blind placebo-controlled Systolic Hypertension in Europe (Syst-Eur) trial. *The Lancet* 352, 1347–1351. [https://doi.org/10.1016/S0140-6736\(98\)03086-4](https://doi.org/10.1016/S0140-6736(98)03086-4)
- Forte, G., De Pascalis, V., Favieri, F., Casagrande, M., 2020. Effects of Blood Pressure on Cognitive Performance: A Systematic Review. *J Clin Med* 9. <https://doi.org/10.3390/jcm9010034>
- Frisoni, G.B., Scheltens, P. h, Galluzzi, S., Nobili, F.M., Fox, N.C., Robert, P.H., Soininen, H., Wahlund, L.-O., Waldemar, G., Salmon, E., 2003. Neuroimaging tools to rate regional atrophy, subcortical cerebrovascular disease, and regional cerebral blood flow and metabolism: consensus paper of the EADC. *J Neurol Neurosurg Psychiatry* 74, 1371–1381. <https://doi.org/10.1136/jnnp.74.10.1371>
- Furtner, J., Prayer, D., 2021. Neuroimaging in dementia. *Wien. Med. Wochenschr.* 171, 274–281.

- Gattas, B.S., Ibetoh, C.N., Stratulat, E., Liu, F., Wuni, G.Y., Bahuva, R., Shafiq, M.A., Gordon, D.K., 2020. The impact of low hemoglobin levels on cognitive brain functions. *Cureus* 12, e11378.
- Ge, Y., Grossman, R.I., Babb, J.S., Rabin, M.L., Mannon, L.J., Kolson, D.L., 2002. Age-Related Total Gray Matter and White Matter Changes in Normal Adult Brain. Part I: Volumetric MR Imaging Analysis. *American Journal of Neuroradiology* 23, 1327–1333.
- Ghafar, M.Z.A.A., Miptah, H.N., O’Caoimh, R., 2019. Cognitive Screening Instruments to Identify Vascular Cognitive Impairment: A Systematic Review. *Int. J. Geriatr. Psychiatry* 34, 1114–1127.
- Giubilei, F., Bastianello, S., Paolillo, A., Gasperini, C., Tisei, P., Casini, A.R., Gragnani, A., Bozzao, L., Fieschi, C., 1997. Quantitative magnetic resonance analysis in vascular dementia. *J Neurol* 244, 246–251. <https://doi.org/10.1007/s004150050079>
- Goh, F.Q., Kong, W.K.F., Wong, R.C.C., Chong, Y.F., Chew, N.W.S., Yeo, T.-C., Sharma, V.K., Poh, K.K., Sia, C.-H., 2022. Cognitive Impairment in Heart Failure—A Review. *Biology (Basel)* 11. <https://doi.org/10.3390/biology11020179>
- Goldney, J., Barker, M.M., Sargeant, J.A., Daynes, E., Papamargaritis, D., Shabnam, S., Goff, L.M., Khunti, K., Henson, J., Davies, M.J., Zaccardi, F., 2025. Burden of vascular risk factors by age, sex, ethnicity and deprivation in young adults with and without newly diagnosed type 2 diabetes. *Diabetes Res Clin Pract* 220. <https://doi.org/10.1016/j.diabres.2025.112002>
- Gottesman, R.F., Hillis, A.E., 2010. Predictors and assessment of cognitive dysfunction resulting from ischaemic stroke. *Lancet Neurol* 9, 895–905. [https://doi.org/10.1016/S1474-4422\(10\)70164-2](https://doi.org/10.1016/S1474-4422(10)70164-2)
- Gupta, M., Pandey, S., Rumman, M., Singh, B., Mahdi, A.A., 2023. Molecular mechanisms underlying hyperglycemia associated cognitive decline. *IBRO Neurosci Rep* 14, 57–63. <https://doi.org/10.1016/j.ibneur.2022.12.006>
- Håkansson, K., Rovio, S., Helkala, E.-L., Vilska, A.-R., Winblad, B., Soininen, H., Nissinen, A., Mohammed, A.H., Kivipelto, M., 2009. Association between mid-life marital status and cognitive function in later life: population based cohort study. *BMJ* 339, b2462. <https://doi.org/10.1136/bmj.b2462>
- Hanifah, A.K., Astari, R.V., Muktamiroh, H., Saleh, A.Y., 2022. Vascular Dementia Patients Characteristics With a History of Stroke in a National Brain Center Hospital Jakarta, Indonesia. *Folia Medica Indonesiana* 58, 203–207. <https://doi.org/10.20473/fmi.v58i3.33228>

- Hasna Imami, N., Haryono, Y., Sensusiaty, A.D., Hamdan, M., Hidayati, H.B., 2021. Dementia in Dr. Soetomo General Hospital Surabaya: A Synthetic Review of Its Characteristics. *MNJ (Malang Neurology Journal)* 7. <https://doi.org/10.21776/ub.mnj.2021.007.01.3>
- He, Q., Wang, W., Zhang, Y., Xiong, Y., Tao, C., Ma, L., You, C., Ma, J., Jiang, Y., 2025. Global burden of young-onset dementia, from 1990 to 2021: an age-period-cohort analysis from the global burden of disease study 2021. *Transl Psychiatry* 15, 56. <https://doi.org/10.1038/s41398-025-03275-w>
- He, W., Ruan, Y., Yuan, C., Luan, X., He, J., 2020. Hemoglobin, anemia, and poststroke cognitive impairment: A cohort study. *Int J Geriatr Psychiatry* 35, 564–571. <https://doi.org/https://doi.org/10.1002/gps.5272>
- Heath, C.A., Mercer, S.W., Guthrie, B., 2015. Vascular comorbidities in younger people with dementia: a cross-sectional population-based study of 616 245 middle-aged people in Scotland. *J Neurol Neurosurg Psychiatry* 86, 959–964. <https://doi.org/10.1136/jnnp-2014-309033>
- Hemrungronj, S., Tangwongchai, S., Charernboon, T., Phanasathit, M., Chaipresertsud, P., Maleevach, P., Likitjaroen, Y., Phanthumchinda, K., Assawatinna, R., Amrapala, A., Maes, M., 2023. Cognitive impairments predict the behavioral and psychological symptoms of dementia. *Front Neurol* 14.
- Higashi, Y., 2023. Endothelial Function in Dyslipidemia: Roles of LDL-Cholesterol, HDL-Cholesterol and Triglycerides. *Cells* 12. <https://doi.org/10.3390/cells12091293>
- Hoang, M.T., Jurado, P.G., Abzhandadze, T., Mostafaei, S., Mo, M., Åkerman, M., Vestling, K., Chen, C., Xu, H., Eriksson, M., Garcia-Ptacek, S., 2024. Effects of the COVID-19 Pandemic on the Number of New Dementia Diagnoses and the Quality of Dementia Diagnostics and Treatment. *J Prev Alzheimers Dis* 11, 1703–1711. <https://doi.org/https://doi.org/10.14283/jpad.2024.150>
- Holick, M.F., 2009. Vitamin D Status: Measurement, Interpretation, and Clinical Application. *Ann Epidemiol* 19, 73–78. <https://doi.org/https://doi.org/10.1016/j.annepidem.2007.12.001>
- Hosoki, S., Tanaka, T., Ihara, M., 2021. Diagnostic and prognostic blood biomarkers in vascular dementia: From the viewpoint of ischemic stroke. *Neurochem Int* 146, 105015. <https://doi.org/https://doi.org/10.1016/j.neuint.2021.105015>
- Hu, H.-Y., Ou, Y.-N., Shen, X.-N., Qu, Y., Ma, Y.-H., Wang, Z.-T., Dong, Q., Tan, L., Yu, J.-T., 2021. White matter hyperintensities and risks of cognitive impairment and dementia: A systematic review and meta-

- analysis of 36 prospective studies. *Neurosci Biobehav Rev* 120, 16–27.
<https://doi.org/https://doi.org/10.1016/j.neubiorev.2020.11.007>
- Hua, R., Ma, Y., Li, C., Zhong, B., Xie, W., 2021. Low levels of low-density lipoprotein cholesterol and cognitive decline. *Sci Bull (Beijing)* 66, 1684–1690. <https://doi.org/https://doi.org/10.1016/j.scib.2021.02.018>
- Husein, N., Lumempouw, S.F., Ramli, Y., Herqutanto, 2010. Montreal Cognitive Assessment Versi Indonesia MoCA-Ina Untuk Skrining Gangguan Fungsi Kognitif. *Neurona*.
- Iadecola, C., 2013. The Pathobiology of Vascular Dementia. *Neuron* 80, 844–866.
<https://doi.org/https://doi.org/10.1016/j.neuron.2013.10.008>
- Iadecola, C., Duering, M., Hachinski, V., Joutel, A., Pendlebury, S.T., Schneider, J.A., Dichgans, M., 2019. Vascular Cognitive Impairment and Dementia: JACC Scientific Expert Panel. *J Am Coll Cardiol*.
<https://doi.org/10.1016/j.jacc.2019.04.034>
- Inoue, Y., Shue, F., Bu, G., Kanekiyo, T., 2023. Pathophysiology and probable etiology of cerebral small vessel disease in vascular dementia and Alzheimer’s disease. *Mol Neurodegener*. <https://doi.org/10.1186/s13024-023-00640-5>
- Iwagami, M., Qizilbash, N., Gregson, J., Douglas, I., Johnson, M., Pearce, N., Evans, S., Pocock, S., 2021. Blood cholesterol and risk of dementia in more than 1·8 million people over two decades: a retrospective cohort study. *Lancet Healthy Longev* 2, e498–e506. [https://doi.org/https://doi.org/10.1016/S2666-7568\(21\)00150-1](https://doi.org/https://doi.org/10.1016/S2666-7568(21)00150-1)
- Javanshiri, Keivan, Waldö, Maria Landqvist, Friberg, Niklas, Sjövall, Fredrik, Wickerström, Karin, Haglund, Mattias, Englund, Elisabet, 2018. Atherosclerosis, Hypertension, and Diabetes in Alzheimer’s Disease, Vascular Dementia, and Mixed Dementia: Prevalence and Presentation. *Journal of Alzheimer’s Disease* 65, 1247–1258. <https://doi.org/10.3233/JAD-180644>
- Jochemsen, H.M., Muller, M., Visseren, F.L., Scheltens, P., Vincken, K.L., Mali, W.P., van der Graaf, Y., Geerlings, M.I., Group, for the S.S., 2013. Blood Pressure and Progression of Brain Atrophy: The SMART-MR Study. *JAMA Neurol* 70, 1046–1053.
<https://doi.org/10.1001/jamaneurol.2013.217>
- Kalaria, R.N., Akinyemi, R., Ihara, M., 2016. Stroke injury, cognitive impairment and vascular dementia. *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease* 1862, 915–925.
<https://doi.org/https://doi.org/10.1016/j.bbadis.2016.01.015>
- Karakose, S., Luchetti, M., Stephan, Y., Sutin, A.R., Terracciano, A., 2025. Marital status and risk of dementia over 18 years: Surprising findings from the

- National Alzheimer's Coordinating Center. *Alzheimer's & Dementia* 21, e70072. <https://doi.org/https://doi.org/10.1002/alz.70072>
- Kasatkina, L.A., Tarasenko, A.S., Krupko, O.O., Kuchmerovska, T.M., Lisakovska, O.O., Triakash, I.O., 2020. Vitamin D deficiency induces the excitation/inhibition brain imbalance and the proinflammatory shift. *Int J Biochem Cell Biol* 119, 105665. <https://doi.org/https://doi.org/10.1016/j.biocel.2019.105665>
- Kaushik, S., Vani, K., Chumber, S., Anand, K.S., Dhamija, R.K., 2021. Evaluation of MR Visual Rating Scales in Major Forms of Dementia. *J Neurosci Rural Pract* 12. <https://doi.org/10.1055/s-0040-1716806>
- Khan, M.G., 2006. Blood Pressure, in: KHAN, M.G. (Ed.), *Encyclopedia of Heart Diseases*. Academic Press, Burlington, pp. 175–181. <https://doi.org/https://doi.org/10.1016/B978-012406061-6/50030-8>
- Kiely, K.M., 2014. Cognitive Function, in: *Encyclopedia of Quality of Life and Well-Being Research*. Springer Netherlands, Dordrecht, pp. 974–978.
- Kim, Jong S, 2014. Stroke in Asia: A Global Disaster. *International Journal of Stroke* 9, 856–857. <https://doi.org/10.1111/ijvs.12317>
- Kim, J.W., Byun, M.S., Yi, D., Lee, J.H., Jeon, S.Y., Ko, K., Joung, H., Jung, G., Lee, J.-Y., Sohn, C.-H., Lee, Y.-S., Kim, Y.K., Lee, D.Y., 2021. Blood Hemoglobin, in-vivo Alzheimer Pathologies, and Cognitive Impairment: A Cross-Sectional Study. *Front Aging Neurosci* 13. <https://doi.org/10.3389/fnagi.2021.625511>
- Kishimoto, S., Maruhashi, T., Kajikawa, M., Matsui, S., Hashimoto, H., Takaeko, Y., Harada, T., Yamaji, T., Han, Y., Kihara, Y., Chayama, K., Goto, C., Yusoff, F.M., Nakashima, A., Higashi, Y., 2020. Hematocrit, hemoglobin and red blood cells are associated with vascular function and vascular structure in men. *Sci Rep* 10, 11467. <https://doi.org/10.1038/s41598-020-68319-1>
- Knopman, D.S., Parisi, J.E., Boeve, B.F., Cha, R.H., Apaydin, H., Salviati, A., Edland, S.D., Rocca, W.A., 2003. Vascular Dementia in a Population-Based Autopsy Study. *Arch Neurol* 60, 569–575. <https://doi.org/10.1001/archneur.60.4.569>
- Koedam, E.L.G.E., Lehmann, M., van der Flier, W.M., Scheltens, P., Pijnenburg, Y.A.L., Fox, N., Barkhof, F., Wattjes, M.P., 2011. Visual assessment of posterior atrophy development of a MRI rating scale. *Eur Radiol* 21, 2618–2625. <https://doi.org/10.1007/s00330-011-2205-4>
- Kosmas, Constantine E, Bousvarou, Maria D, Kostara, Christina E, Papakonstantinou, Evangelia J, Salamou, Evdokia, Guzman, Eliscer, 2023. Insulin resistance and cardiovascular disease. *Journal of International Medical Research* 51, 03000605231164548. <https://doi.org/10.1177/03000605231164548>

- Kruyt, N.D., Nys, G.M.S., van der Worp, H.B., van Zandvoort, M.J.E., Kappelle, L.J., Biessels, G.J., 2008. Hyperglycemia and cognitive outcome after ischemic stroke. *J Neurol Sci* 270, 141–147. <https://doi.org/https://doi.org/10.1016/j.jns.2008.02.020>
- Kume, K., Hanyu, H., Sato, T., Hirao, K., Shimizu, S., Kanetaka, H., Sakurai, H., Iwamoto, T., 2011. Vascular risk factors are associated with faster decline of Alzheimer disease: a longitudinal SPECT study. *J Neurol* 258, 1295–1303. <https://doi.org/10.1007/s00415-011-5927-y>
- Lee, J.-Y., Han, K., Kim, J., Lim, J.-S., Cheon, D.Y., Lee, M., 2025. Association Between Metabolic Syndrome and Young-Onset Dementia. *Neurology* 104, e213599. <https://doi.org/10.1212/WNL.0000000000213599>
- Legdeur, N., van der Lee, S.J., de Wilde, M., van der Lei, J., Muller, M., Maier, A.B., Visser, P.J., 2019. The association of vascular disorders with incident dementia in different age groups. *Alzheimers Res Ther* 11, 47. <https://doi.org/10.1186/s13195-019-0496-x>
- Levine, D.A., Springer, M. V, Brodtmann, A., 2022. Blood Pressure and Vascular Cognitive Impairment. *Stroke* 53, 1104–1113. <https://doi.org/10.1161/STROKEAHA.121.036140>
- Li, N., Wu, D., 2022. Education Level, Underemployment, and Health. *Front Psychol* Volume 13-2022. <https://doi.org/10.3389/fpsyg.2022.708454>
- Liang, J., Li, C., Gao, D., Ma, Q., Wang, Y., Pan, Y., Zhang, W., Xie, W., Zheng, F., 2023. Association Between Onset Age of Coronary Heart Disease and Incident Dementia: A Prospective Cohort Study. *J Am Heart Assoc* 12, e031407. <https://doi.org/10.1161/JAHA.123.031407>
- Lim, J.U., Lee, J.H., Kim, J.S., Hwang, Y. Il, Kim, T.-H., Lim, S.Y., Yoo, K.H., Jung, K.-S., Kim, Y.K., Rhee, C.K., 2017a. Comparison of World Health Organization and Asia-Pacific body mass index classifications in COPD patients. *Int J Chron Obstruct Pulmon Dis* 12, 2465–2475. <https://doi.org/10.2147/copd.s141295>
- Lim, J.U., Lee, J.H., Kim, J.S., Hwang, Y. Il, Kim, T.H., Lim, S.Y., Yoo, K.H., Jung, K.S., Kim, Y.K., Rhee, C.K., 2017b. Comparison of World Health Organization and Asia-Pacific body mass index classifications in COPD patients. *International Journal of COPD* 12, 2465–2475. <https://doi.org/10.2147/COPD.S141295>
- Lioutas, V., Peloso, G., Romero, J.R., Aparicio, H., Gonzales, M., Werry, A., Himali, D., Himali, J., Banerjee, A., Gosh, S., Ramachandran, V.S., Beiser, A., Seshadri, S., 2025. Long-Term Incidence of Dementia Following Transient Ischemic Attack: A Longitudinal Cohort Study. *J Am Heart Assoc* 14, e037817. <https://doi.org/10.1161/JAHA.124.037817>

- Lyketsos, C.G., Steinberg, M., Tschanz, J.T., Norton, M.C., Steffens, D.C., Breitner, J.C.S., 2000. Mental and Behavioral Disturbances in Dementia: Findings From the Cache County Study on Memory in Aging. *American Journal of Psychiatry* 157, 708–714. <https://doi.org/10.1176/appi.ajp.157.5.708>
- Maan, H.B., Meo, S.A., Rouq, F.A., Meo, I.M.U., 2021. Impact of Glycated Hemoglobin (HbA1c) on cognitive functions in Type 2 diabetic patients. *Eur. Rev. Med. Pharmacol. Sci.* 25, 5978–5985.
- Mahadevan, S., Ali, I., 2016. Is body mass index a good indicator of obesity? *Int J Diabetes Dev Ctries* 36, 140–142. <https://doi.org/10.1007/s13410-016-0506-5>
- Malek-Ahmadi, M., Powell, J.J., Belden, C.M., Oconnor, K., Evans, L., Coon, D.W., Nieri, W., 2015. Age-and education-adjusted normative data for the Montreal Cognitive Assessment (MoCA) in older adults age 70-99. *Aging, Neuropsychology, and Cognition* 22, 755–761. <https://doi.org/10.1080/13825585.2015.1041449>
- Manco, C., Cortese, R., Leoncini, M., Plantone, D., Gentile, G., Luchetti, L., Zhang, J., Di Donato, I., Salvadori, E., Poggesi, A., Cosottini, M., Mascalchi, M., Federico, A., Dotti, M.T., Battaglini, M., Inzitari, D., Pantoni, L., De Stefano, N., 2024. Hippocampal atrophy and white matter lesions characteristics can predict evolution to dementia in patients with vascular mild cognitive impairment. *J Neurol Sci* 464, 123163. <https://doi.org/https://doi.org/10.1016/j.jns.2024.123163>
- Michaud, T.L., Siahpush, M., Farazi, P.A., Kim, J., Yu, F., Su, D., Murman, D.L., 2018. The Association between Body Mass Index, and Cognitive, Functional, and Behavioral Declines for Incident Dementia. *Journal of Alzheimer’s Disease* 66, 1507–1517. <https://doi.org/10.3233/JAD-180278>
- Min, J., Song, J., 2023. Spousal loss and cognitive function: the importance of gender and multiple dimensions of marital quality. *Aging Ment Health* 27, 755–764. <https://doi.org/10.1080/13607863.2022.2084715>
- Moon, W., Han, J.W., Bae, J. Bin, Suh, S.W., Kim, T.H., Kwak, K.P., Kim, B.J., Kim, S.G., Kim, J.L., Moon, S.W., Park, J.H., Ryu, S.-H., Youn, J.C., Lee, D.Y., Lee, D.W., Lee, S.B., Lee, J.J., Jhoo, J.H., Kim, K.W., 2021. Disease Burdens of Alzheimer’s Disease, Vascular Dementia, and Mild Cognitive Impairment. *J Am Med Dir Assoc* 22, 2093-2099.e3. <https://doi.org/https://doi.org/10.1016/j.jamda.2021.05.040>
- Morgan, A.E., Mc Auley, M.T., 2024. Vascular dementia: From pathobiology to emerging perspectives. *Ageing Res Rev* 96, 102278. <https://doi.org/https://doi.org/10.1016/j.arr.2024.102278>
- Mundada, M., Diggikar, P.M., Shokeen, A., Reddy, R.H., Oommen, A.B., Pancholi, T., Yammanuru, B., Yekkaluru, S. vidya, R, J., Jagirdar, A., 2024.

- Comprehensive Analysis of Dementia Types and Risk Factors: A Study From a Tertiary Care Center in India. *Cureus*. <https://doi.org/10.7759/cureus.62745>
- Murphy, S.J.X., Werring, D.J., 2020. Stroke: causes and clinical features. *Medicine* 48, 561–566. <https://doi.org/https://doi.org/10.1016/j.mpmed.2020.06.002>
- Naharci, M.I., Doruk, H., 2015. Focusing on the Effect of Body Mass Index Status in the Risk of Vascular Dementia Development, in: *Diet and Nutrition in Dementia and Cognitive Decline*. Elsevier Inc., pp. 521–528. <https://doi.org/10.1016/B978-0-12-407824-6.00048-3>
- Nam, K.-W., Kwon, H.-M., Jeong, H.-Y., Park, J.-H., Min, K., 2024. Blood urea nitrogen to albumin ratio is associated with cerebral small vessel diseases. *Sci Rep* 14, 4455. <https://doi.org/10.1038/s41598-024-54919-8>
- Nelson, T.J., Alkon, D.L., 2015. Molecular regulation of synaptogenesis during associative learning and memory. *Brain Res* 1621, 239–251. <https://doi.org/https://doi.org/10.1016/j.brainres.2014.11.054>
- Nemati, S.S., Sadeghi, L., Dehghan, G., Sheibani, N., 2023. Lateralization of the hippocampus: A review of molecular, functional, and physiological properties in health and disease. *Behavioural Brain Research* 454, 114657. <https://doi.org/https://doi.org/10.1016/j.bbr.2023.114657>
- NICE Guideline, 2018. Dementia: assessment, management and support for people living with dementia and their carers (NG97).
- Ohwada, H., Nakayama, T., Kanaya, Y., Tanaka, Y., 2017. Serum albumin levels and their correlates among individuals with motor disorders at five institutions in Japan. *Nutr Res Pract* 11, 57–63.
- Olvera Lopez, E., Ballard, B.D., Jan, A., 2024. *Cardiovascular Disease*. StatPearls Publishing, Treasure Island.
- Ong, P.A., Annisafitrie, F.R., Purnamasari, N., Calista, C., Sagita, N., Sofiatin, Y., Dikot, Y., 2021. Dementia Prevalence, Comorbidities, and Lifestyle Among Jatinangor Elders. *Front Neurol* 12. <https://doi.org/10.3389/fneur.2021.643480>
- Panentu, D., Irfan, M., RSUP Moh Hosein, F., Fisioterapi Universitas Esa Unggul, F., Jend Sudirman Km, J., 2013. Uji Validitas Dan Reliabilitas Butir Pemeriksaan Dengan Montreal Cognitive Assesment Versi Indonesia (MOCA-Ina) Pada Insan Pasca Stroke Fase Recovery Jurnal Fisioterapi.
- Park, S., Kim, D.K., Myung, W., Yoo, J.H., Shin, S.J., Na, D.L., Kim, Sang Yun, Lee, J.-H., Kim, Seong Yoon, Han, S.-H., Choi, S.H., Shin, J., 2018. Risk Factors of Behavioral and Psychological Symptoms in Patients with Alzheimer Disease: The Clinical Research of Dementia of South Korea Study. *Korean J Fam Med* 40, 16–21. <https://doi.org/10.4082/kjfm.17.0061>
- Parsi, M.M., Duval, C., Ariëns, R.A.S., 2021. Vascular Dementia and Crosstalk Between the Complement and Coagulation Systems. *Front Cardiovasc Med*. <https://doi.org/10.3389/fcvm.2021.803169>

- Pase, M.P., Davis-Plourde, K., Himali, J.J., Satizabal, C.L., Aparicio, H., Seshadri, S., Beiser, A.S., DeCarli, C., 2018. Vascular risk at younger ages most strongly associates with current and future brain volume. *Neurology* 91, e1479–e1486. <https://doi.org/10.1212/WNL.0000000000006360>
- PERDOSSI, 2023. *Pedoman Praktik Klinis Neurologi 2023*. Perkisa Indonesia, Jakarta Pusat.
- PERDOSSI, 2015. *Panduan Praktik Klinik Diagnosis & Penatalaksanaan Demensia*. Perhimpunan Dokter Spesialis Saraf Indonesia.
- Pertiwi, J.M., Momole, A.G.N., Warouw, F., Tangkudung, G., Pangestu, A., Iroth, G., 2024. Pattern of cognitive deficit in vascular dementia. *Neurol Asia* 29, 1089–1094. <https://doi.org/10.54029/2024upf>
- Piras, F., Carbone, E., Faggian, S., Salvalaio, E., Gardini, S., Borella, E., 2017. Efficacy of cognitive stimulation therapy for older adults with vascular dementia. *Dement Neuropsychol* 11, 434–441. <https://doi.org/10.1590/1980-57642016dn11-040014>
- Podcasy, J.L., Epperson, C.N., 2016. Considering sex and gender in Alzheimer disease and other dementias. *Dialogues Clin. Neurosci.* 18, 437–446.
- Poletti, M., Nuti, A., Cipriani, G., Bonuccelli, U., 2012. Behavioral and Psychological Symptoms of Dementia: Factor Analysis and Relationship with Cognitive Impairment. *Eur Neurol* 69, 76–82. <https://doi.org/10.1159/000341956>
- Prabhakar, P., Chandra, S.R., Supriya, M., Issac, T.G., Prasad, C., Christopher, R., 2015. Vitamin D status and vascular dementia due to cerebral small vessel disease in the elderly Asian Indian population. *J Neurol Sci* 359, 108–111. <https://doi.org/https://doi.org/10.1016/j.jns.2015.10.050>
- Prodjohardjono, A., Vidyanti, A.N., Susianti, N.A., Sudarmanta, Sutarni, S., Setyopranoto, I., 2020. Higher level of acute serum VEGF and larger infarct volume are more frequently associated with post-stroke cognitive impairment. *PLoS One* 15, e0239370-.
- Ravaglia, G., Forti, P., Maioli, F., Sacchetti, L., Mariani, E., Nativio Valeria and Talerico, T., Vettori, C., Macini, P.L., 2002. Education, occupation, and prevalence of dementia: findings from the Conselice study. *Dement. Geriatr. Cogn. Disord.* 14, 90–100.
- Risliawati, I., Yunus, R.E., Prihartono, J., 2024. Volume Hippocampus Pada Populasi Dewasa Normal Berdasarkan Pemeriksaan MRI Di RSUPN Dr. Cipto Mangunkusumo = Hippocampus Volume in Normal Adult Population Based on MRI Examination at RSUPN Dr. Cipto Mangunkusumo. Program Studi Spesialis Radiologi, Depok.

- Robusto-Leitao, O., Ferreira, H., 2006. Hormones and dementia - a comparative study of hormonal impairment in post-menopausal women, with and without dementia. *Neuropsychiatr. Dis. Treat.* 2, 199–206.
- Saleem, M., Herrmann, N., Dinoff, A., Mazereeuw, G., Oh, P.I., Goldstein, B.I., Kiss, A., Shammi, P., Lanctôt, K.L., 2019. Association Between Endothelial Function and Cognitive Performance in Patients With Coronary Artery Disease During Cardiac Rehabilitation. *Psychosom Med* 81.
- Sanders, A.E., Schoo, C., Kalish, V.B., 2024. *Vascular Dementia*. StatPearls Publishing, Treasure Island.
- Scelsi, C.L., Rahim, T.A., Morris, J.A., Kramer, G.J., Gilbert, B.C., Forseen, S.E., 2020. The Lateral Ventricles: A Detailed Review of Anatomy, Development, and Anatomic Variations. *American Journal of Neuroradiology* 41, 566–572. <https://doi.org/10.3174/ajnr.A6456>
- Schilling, S., Tzourio, C., Dufouil, C., Zhu, Y., Berr, C., Alperovitch, A., Crivello, F., Mazoyer, B., Debette, S., 2014. Plasma lipids and cerebral small vessel disease. *Neurology* 83, 1844–1852. <https://doi.org/10.1212/WNL.0000000000000980>
- Schlögl, M., Holick, M.F., 2014. Vitamin D and neurocognitive function. *Clin Interv Aging* 9, 559–568. <https://doi.org/10.2147/CIA.S51785>
- Schwertner, E., Pereira, J.B., Xu, H., Secnik, J., Winblad, B., Eriksdotter, M., Nägga, K., Religa, D., 2022. Behavioral and Psychological Symptoms of Dementia in Different Dementia Disorders: A Large-Scale Study of 10,000 Individuals. *Journal of Alzheimer's Disease* 87, 1307–1318. <https://doi.org/10.3233/JAD-215198>
- Sengupta, P., Ganguly, J., Pal, S., Ghosal, M., 2019. Pattern of cognitive deficits in vascular dementia. *Indian Journal of Medical Research* 149.
- Sergi, D., Zauli, E., Tisato, V., Secchiero, P., Zauli, G., Cervellati, C., 2023. Lipids at the Nexus between Cerebrovascular Disease and Vascular Dementia: The Impact of HDL-Cholesterol and Ceramides. *Int J Mol Sci* 24. <https://doi.org/10.3390/ijms24054403>
- Shabir, O., Berwick, J., Francis, S.E., 2018. Neurovascular dysfunction in vascular dementia, Alzheimer's and atherosclerosis. *BMC Neurosci* 19, 62. <https://doi.org/10.1186/s12868-018-0465-5>
- Short, S.E., Yang, Y.C., Jenkins, T.M., 2013. Sex, Gender, Genetics, and Health. *Am J Public Health* 103, S93–S101. <https://doi.org/10.2105/AJPH.2013.301229>
- Sible, I.J., Nation, D.A., Initiative, for the A.D.N., 2022. Blood pressure variability and medial temporal atrophy in apolipoprotein ε4 carriers. *Brain Imaging Behav* 16, 792–801. <https://doi.org/10.1007/s11682-021-00553-1>

- Sierra, C., 2020. Hypertension and the Risk of Dementia. *Front Cardiovasc Med* 7. <https://doi.org/10.3389/fcvm.2020.00005>
- Sikora-Skrabaka, M., Skrabaka, D., Ruggeri, P., Caramori, G., Skoczyński, S., Barczyk, A., 2019. D-dimer value in the diagnosis of pulmonary embolism — May it exclude only? *J Thorac Dis* 11, 664–672. <https://doi.org/10.21037/jtd.2019.02.88>
- Sindi, S., Hagman, G., Håkansson, K., Kulmala, J., Nilsen, C., Kåreholt, I., Soininen, H., Solomon, A., Kivipelto, M., 2017. Midlife Work-Related Stress Increases Dementia Risk in Later Life: The CAIDE 30-Year Study. *The Journals of Gerontology: Series B* 72, 1044–1053. <https://doi.org/10.1093/geronb/gbw043>
- Skirbekk, Vegard, Bowen, Catherine E, Håberg, Asta, Jugessur, Astanand, Engdahl, Bo, Bratsberg, Bernt, Zotcheva, Ekaterina, Selbæk, Geir, Kohler, Hans-Peter, Weiss, Jordan, Harris, Jennifer R, Tom, Sarah E, Krokstad, Steinar, Stern, Yaakov, Strand, Bjørn Heine, 2022. Marital Histories and Associations With Later-Life Dementia and Mild Cognitive Impairment Risk in the HUNT4 70+ Study in Norway. *J Aging Health* 35, 543–555. <https://doi.org/10.1177/08982643221131926>
- Sonang, S., Purba, A.T., Pardede, F.O.I., 2019. Pengelompokan Jumlah Penduduk Berdasarkan Kategori Usia Dengan Metode K-Means. *Jurnal Teknik Informasi dan Komputer (Tekinkom)* 2, 166. <https://doi.org/10.37600/tekinkom.v2i2.115>
- Sultan, S., Taimuri, U., Basnan, S.A., Ai-Orabi, W.K., Awadallah, A., Almowald, F., Hazazi, A., 2020. Low Vitamin D and Its Association with Cognitive Impairment and Dementia. *J Aging Res* 2020, 6097820. <https://doi.org/https://doi.org/10.1155/2020/6097820>
- Sultan, S.R., 2025. Gender differences in aortic blood pressure, arterial stiffness, and cerebral blood flow in healthy adults: A STROBE-compliant cross-sectional observational study. *Medicine* 104.
- Sundkvist, Y., Zingmark, K., 2003. Leading from Intermediary Positions: First-line Administrators' Experiences of their Occupational Role and Situation. *Scand J Occup Ther* 10, 40–46. <https://doi.org/10.1080/11038120310004448>
- Susianti, N.A., Astuti, Asmedi, A., Gofir, A., Djarwoto, B., 2015. Profil Fungsi Kognitif Pasien Gagal Ginjal Kronik yang Menjalani Hemodialisis. *Neurona* 32.
- Susianti, N.A., Prodjohardjono, A., Vidyanti, A.N., Setyaningsih, I., Gofir, A., Setyaning, C.T.S., Effendy, C., Setyawan, N.H., Setyopranoto, I., 2024a. MTA and Koedam score contributes to cognitive impairment in probable Alzheimer, vascular and mixed dementia: A Memory Clinic study in Indonesia, *Research Square*.

- Susianti, N.A., Prodjohardjono, A., Vidyanti, A.N., Setyaningsih, I., Gofir, A., Setyaningrum, C.T.S., Effendy, C., Setyawan, N.H., Setyopranoto, I., 2024b. The impact of medial temporal and parietal atrophy on cognitive function in dementia. *Sci Rep* 14, 5281. <https://doi.org/10.1038/s41598-024-56023-3>
- Teramoto, T., Sasaki, J., Birou, S., Daida, H., Dohi, S., Egusa, G., Hiro, T., Hirobe, K., Iida, M., Kihara, S., Kinoshita, M., Maruyama, C., Ohta, T., Okamura, T., Yamashita, S., Yokode, M., Yokote, K., 2012. Diagnostic Criteria for Dyslipidemia Executive Summary of the Japan Atherosclerosis Society (JAS) Guidelines for the Diagnosis and Prevention of Atherosclerotic Cardiovascular Diseases in Japan-2012 Version, *Journal of Atherosclerosis and Thrombosis*.
- Then, F.S., Luck, T., Lupp, M., Thinschmidt, M., Deckert, S., Nieuwenhuijsen, K., Seidler, A., Riedel-Heller, S.G., 2014. Systematic review of the effect of the psychosocial working environment on cognition and dementia. *Occup Environ Med* 71, 358–365. <https://doi.org/10.1136/oemed-2013-101760>
- Vermeer, S.E., Longstreth Jr, W.T., Koudstaal, P.J., 2007. Silent brain infarcts: a systematic review. *Lancet Neurol* 6, 611–619. [https://doi.org/10.1016/S1474-4422\(07\)70170-9](https://doi.org/10.1016/S1474-4422(07)70170-9)
- Vidyanti, A.N., Hardhantyo, M., Wiratama, B.S., Prodjohardjono, A., Hu, C.-J., 2020. Obesity Is Less Frequently Associated with Cognitive Impairment in Elderly Individuals: A Cross-Sectional Study in Yogyakarta, Indonesia. *Nutrients* 12. <https://doi.org/10.3390/nu12020367>
- Vijayakumar, Avinash, Vijayakumar, Abhishek, 2013. Comparison of Hippocampal Volume in Dementia Subtypes. *Int Sch Res Notices* 2013, 174524. <https://doi.org/https://doi.org/10.5402/2013/174524>
- Wada-Isoe, K., Kikuchi, T., Umeda-Kameyama, Y., Mori, T., Akishita, M., Nakamura, Y., 2020. Validation of the Neuropsychiatric Inventory Based on Item Response Theory. *J Alzheimers Dis Rep* 4, 151–159. <https://doi.org/10.3233/ADR-200172>
- Wang, J., Xu, X., Wang, C., Ye, D., Chen, R., Peng, P., Huang, H., Yan, Y., Chen, Y., Wang, S., Chen, L., Gong, H., 2023. Association of acute kidney injury with the risk of cognitive impairment or dementia: a systematic review and meta-analysis. *Ren Fail* 45, 2279647. <https://doi.org/10.1080/0886022X.2023.2279647>
- Wang, L., Wang, F., Liu, J., Zhang, Q., Lei, P., 2018. Inverse Relationship between Baseline Serum Albumin Levels and Risk of Mild Cognitive Impairment in Elderly: A Seven-Year Retrospective Cohort Study. *Tohoku J Exp Med* 246, 51–57. <https://doi.org/10.1620/tjem.246.51>
- Wang, X., Ding, Q., Li, Yuefang, Li, T., Li, Yakun, Yin, J., Zhuang, W., 2024. Repetitive transcranial magnetic stimulation impacts the executive

- function of patients with vascular cognitive impairment: a systematic review and meta-analysis. *Front Neurol* Volume 15-2024. <https://doi.org/10.3389/fneur.2024.1374395>
- Wankhade, T., Thakre, N., Tadas, M., Katariya, R., Umekar, M., Kotagale, N., Taksande, B., 2025. Sex-specific neuroprotection: Does BDNF shield girls from autism? *Molecular and Cellular Neuroscience* 134, 104028. <https://doi.org/https://doi.org/10.1016/j.mcn.2025.104028>
- Whitwell, J.L., Crum, W.R., Watt, H.C., Fox, N.C., 2001. Normalization of Cerebral Volumes by Use of Intracranial Volume: Implications for Longitudinal Quantitative MR Imaging. *American Journal of Neuroradiology* 22, 1483–1489.
- Wiederkehr, S., Simard, M., Fortin, C., van Reekum, R., 2008. Comparability of the Clinical Diagnostic Criteria for Vascular Dementia: A Critical Review. Part I, *The Journal of Neuropsychiatry and Clinical Neurosciences*.
- Wilcock, A.A., 1998. *An Occupational Perspective of Health*. Slack.
- Wimo, A., Winblad, B., 2003. Societal Burden and Economics of Vascular Dementia: Preliminary Results From a Swedish-Population–Based Study. *Int Psychogeriatr* 15, 251–256. <https://doi.org/DOI:10.1017/S1041610203009281>
- Wolters, F.J., Ikram, M.A., 2019. Epidemiology of Vascular Dementia. *Arterioscler Thromb Vasc Biol* 39, 1542–1549. <https://doi.org/10.1161/ATVBAHA.119.311908>
- Wolters, F.J., Zonneveld, H.I., Licher, S., Cremers, L.G.M., Group, on behalf of the H.B.C.C.R., Ikram, M.K., Koudstaal, P.J., Vernooij, M.W., Ikram, M.A., 2019. Hemoglobin and anemia in relation to dementia risk and accompanying changes on brain MRI. *Neurology* 93, e917–e926. <https://doi.org/10.1212/WNL.0000000000008003>
- Wong, C.W., Kwok, C.S., Narain, A., Gulati, M., Mihalidou, A.S., Wu, P., Alasnag, M., Myint, P.K., Mamas, M.A., 2018. Marital status and risk of cardiovascular diseases: a systematic review and meta-analysis. *Heart* 104, 1937–1948.
- World Health Organization, 2011. *Haemoglobin concentrations for the diagnosis of anaemia and assessment of severity*. World Health Organization, Geneva.
- Xiao, Y., Devakumar, V., Xu, L., Liu, L., Mo, H., Hong, X., 2023. Elevated serum creatinine levels and risk of cognitive impairment in older adults with diabetes: a NHANES study from 2011-2014. *Front Endocrinol (Lausanne)* 14. <https://doi.org/10.3389/fendo.2023.1149084>
- Xie, J., Cao, H., Jin, D., Wang, Y., Li, X., Budoff, M., Jiang, H., Ren, J., 2025. Correlation analysis of hematocrit level and coronary heart disease

- in patients with chest pain: a case-control study. *J Thorac Dis* 17, 2492–2502. <https://doi.org/10.21037/jtd-2025-645>
- Yeverino-Castro, S.G., Mejía-Arango, S., Mimenza-Alvarado, A.J., Cantú-Brito, C., Avila-Funes, J.A., Aguilar-Navarro, S.G., 2021. Prevalence and incidence of possible vascular dementia among Mexican older adults: Analysis of the Mexican Health and Aging Study. *PLoS One* 16, 1–15. <https://doi.org/10.1371/journal.pone.0253856>
- Yin, Y., Li, M., Li, C., Ma, X., Yan, J., Wang, T., Fu, S., Hua, K., Wu, Y., Zhan, W., Jiang, G., 2018. Reduced White Matter Integrity With Cognitive Impairments in End Stage Renal Disease. *Front Psychiatry* 9.
- Zarei, M., Damoiseaux, J.S., Morgese, C., Beckmann, C.F., Smith, S.M., Matthews, P.M., Scheltens, P., Rombouts, S.A.R.B., Barkhof, F., 2009. Regional White Matter Integrity Differentiates Between Vascular Dementia and Alzheimer Disease. *Stroke* 40, 773–779. <https://doi.org/10.1161/STROKEAHA.108.530832>
- Zeng, Weiyi, Chen, Yaojing, Zhu, Zhibao, Gao, Shudan, Xia, Jianan, Chen, Xiaochun, Jia, Jianjun, Zhang, Zhanjun, 2019. Severity of white matter hyperintensities: Lesion patterns, cognition, and microstructural changes. *Journal of Cerebral Blood Flow & Metabolism* 40, 2454–2463. <https://doi.org/10.1177/0271678X19893600>
- Zhang, M., Zhu, Y., Zhu, Z., 2024. Research advances in the influence of lipid metabolism on cognitive impairment. *Ibrain* 10, 83–92. <https://doi.org/10.1002/ibra.12018>
- Zhu, X., Luo, Z., Tian, G., Hu, Z., Li, S., Wang, Q.M., Luo, X., Chen, L., 2023. Hypotension and cognitive impairment among the elderly: Evidence from the CLHLS. *PLoS One* 18, e0291775-.
- Zuo, W., Wu, J., 2022. The interaction and pathogenesis between cognitive impairment and common cardiovascular diseases in the elderly. *Ther Adv Chronic Dis* 13, 20406223211063020. <https://doi.org/10.1177/20406223211063020>