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**ABSI and Geriatrics**

**ABSI references:**[**https://drjessekrakauer.com/absi.html**](https://drjessekrakauer.com/absi.html)

**https://en.wikipedia.org/wiki/Body\_shape\_index**

**ABSI = WC weight-2/3height5/6 = WC/(BMI2/3height1/2)**

**Rezende FA, Ribeiro AQ, Mingoti SA, Pereira PF, Marins JC, Priore SE, Franceschini SC. Anthropometric patterns of adiposity, hypertension and diabetes mellitus in older adults of Viçosa, Brazil: A population-based study. Geriatr Gerontol Int. 2018 Apr;18(4):584-591. doi: 10.1111/ggi.13219. Epub 2018 Jan 2. PMID: 29292569.**

**Rezende FA, Ribeiro AQ, Mingoti SA, Pereira PF, Marins JC, Priore SE, Franceschini SC. Anthropometric patterns of adiposity, hypertension and diabetes mellitus in older adults of Viçosa, Brazil: A population-based study. Geriatr Gerontol Int. 2018 Apr;18(4):584-591. doi: 10.1111/ggi.13219. Epub 2018 Jan 2. PMID: 29292569.**

**Yang J, Wang F, Wang J, Han X, Hu H, Yu C, Yuan J, Yao P, Miao X, Wei S, Wang Y, Chen W, Liang Y, Guo H, Zhang X, Zheng D, Tang Y, Yang H, He M. Using different anthropometric indices to assess prediction ability of type 2 diabetes in elderly population: a 5 year prospective study. BMC Geriatr. 2018 Sep**

**17;18(1):218. doi: 10.1186/s12877-018-0912-2. PMID: 30223783; PMCID: PMC6142386**

**Dhana K, Koolhaas CM, Schoufour JD, Rivadeneira F, Hofman A, Kavousi M, Franco OH. Association of anthropometric measures with fat and fat-free mass in the elderly: The Rotterdam study. Maturitas. 2016 Jun;88:96-100. doi: 10.1016/j.maturitas.2016.03.018. Epub 2016 Apr 1. Erratum in: Maturitas. 2017 Jun;100:92. PMID: 27105706.**

**Wu TW, Hung CL, Liu CC, Wu YJ, Wang LY, Yeh HI. Associations of Cardiovascular Risk Factors with Carotid Intima-Media Thickness in Middle-Age Adults and Elders. J Atheroscler Thromb. 2017 Jul 1;24(7):677-686. doi: 10.5551/jat.37895. Epub 2016 Nov 18. PMID: 27874838; PMCID: PMC5517541**.

**Wang Q, Xu L, Li J, Sun L, Qin W, Ding G, Zhu J, Zhang J, Yu Z, Xie S. Association of Anthropometric Indices of Obesity with Hypertension in Chinese Elderly: An Analysis of Age and Gender Differences. Int J Environ Res Public Health. 2018 Apr 19;15(4):801. doi: 10.3390/ijerph15040801. PMID: 29671813; PMCID: PMC5923843.**

# Tsou MT, Chang YC, Hsu CP, Kuo YC, Yun CH, Huang WH, Hu KC, Liu CY, Chen YJ, Sung KT, Liu CC, Hung CL, Kuo JY, Chen TY, Hung TC, Yeh HI. Visceral adiposity index outperforms conventional anthropometric assessments as predictor of diabetes mellitus in elderly Chinese: a population-based study. Nutr Metab (Lond). 2021 Sep 25;18(1):87. doi: 10.1186/s12986-021-00608-6. PMID: 34563209.

# Shirani P, Omidvar N, Eini-Zinab H, PoorEbrahim F, Rezazadeh A. Association of Body Fat Distribution Indices and Dietary Adequacy Ratio in (Body Shape Index and Waist-to-Height Ratio) in Free-Living Elderly in Tehran City, 2018–2019. Iranian J Nutr Sci Food Technol 2021; 16 (1) :13-25URL: <http://nsft.sbmu.ac.ir/article-1-3014-en.html>

**Xiong MF, He P, Chen YH, Cao RR, Lei SF. The effect of a body shape index (ABSI) and its interaction with low estimated glomerular filtration rate (eGFR) on osteoporosis in elderly Chinese. J Orthop Sci. 2022 Dec 20:S0949-2658(22)00331-1. doi: 10.1016/j.jos.2022.11.018. Epub ahead of print. PMID: 36550016**

**Gui J, Li Y, Liu H, Guo LL, Li J, Lei Y, Li X, Sun L, Yang L, Yuan T, Wang C, Zhang D, Li J, Liu M, Hua Y, Zhang L. Obesity-and lipid-related indices as a predictor of hypertension in Mid-aged and Elderly Chinese: A Cross-sectional Study. Res Sq [Preprint]. 2023 Mar 28:rs.3.rs-2708175. doi: 10.21203/rs.3.rs-2708175/v1. PMID: 37034776; PMCID: PMC10081363**

**Li Y, Gui J, Zhang X, Wang Y, Mei Y, Yang X, Liu H, Guo LL, Li J, Lei Y, Li X, Sun L, Yang L, Yuan T, Wang C, Zhang D, Wei H, Li J, Liu M, Hua Y, Zhang L. Predicting hypertension by obesity- and lipid-related indices in mid-aged and elderly Chinese: a nationwide cohort study from the China Health and Retirement Longitudinal Study. BMC Cardiovasc Disord. 2023 Apr 20;23(1):201. doi: 10.1186/s12872-023-03232-9. PMID: 37081416; PMCID: PMC10120116.**

**Yang, N.; Zhuo, J.; Xie, S.; Qu, Z.; Li, W.; Li, Z.; Guo, P.; Gao, M.; Qin, H.; Han, T. A Body Shape Index and Its Changes in Relation to All-Cause Mortality among the Chinese Elderly: A Retrospective Cohort Study. Nutrients 2023, 15, 2943.** [**https://doi.org/10.3390/nu15132943**](https://doi.org/10.3390/nu15132943)

**Wang Y, Zhang X, Li Y, Gui J, Mei Y, Yang X, Liu H, Guo LL, Li J, Lei Y, Li X, Sun L, Yang L, Yuan T, Wang C, Zhang D, Li J, Liu M, Hua Y, Zhang L. Predicting depressive symptom by cardiometabolic indicators in mid-aged and older adults in China: a population-based cross-sectional study. Front Psychiatry. 2023 Jun 7;14:1153316. doi: 10.3389/fpsyt.2023.1153316. PMID: 37351000; PMCID: PMC10282944.**

**Yang H, Zhang M, Nie J, Zhang M, Lu G, Chen R, He Q. Associations of obesity-related indices with prediabetes regression to normoglycemia among Chinese middle-aged and older adults: a prospective study. Front Nutr. 2023 May 19;10:1075225. doi: 10.3389/fnut.2023.1075225. PMID: 37275653; PMCID: PMC10235473.**

**Chen BJ, Sluiman AJ, Khalid W, Strachan MWJ, Price JF. Risk of dementia associated with body mass index, changes in body weight and waist circumference in older people with type 2 diabetes: The Edinburgh Type 2 Diabetes Study. Diabet Med. 2023 Feb 8:e15063. doi: 10.1111/dme.15063. Epub ahead of print. PMID: 36756713**

**Shafran I, Krakauer NY, Krakauer JC, Goshen A, Gerber Y. The predictive ability of ABSI compared to BMI for mortality and frailty among older adults. Front Nutr. 2024 Apr 12;11:1305330. doi: 10.3389/fnut.2024.1305330. PMID: 38680534; PMCID: PMC11048479.**