B”SD

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**4/1/25**

**ABSI and Inflammation, GI, Pulmonary, Renal, and Others**

**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)**

**Inflammation**

**Christakoudi, S., Riboli, E., Evangelou, E. *et al.* Associations of body shape index (ABSI) and hip index with liver, metabolic, and inflammatory biomarkers in the UK Biobank cohort. *Sci Rep* 12, 8812 (2022).** [**https://doi.org/10.1038/s41598-022-12284-4**](https://doi.org/10.1038/s41598-022-12284-4)

# Lee M-R, Jung SM. Serum Folate Related to Five Measurements of Obesity and High-Sensitivity C-Reactive Protein in Korean Adults. Nutrients. 2022; 14(17):3461 “folate level showed a significant inverse association with obesity and inflammatory biomarkers, especially in the middle-aged group”

**Clark DO, Unroe KT, Xu H, Keith NR, Callahan CM, Tu W. Sex and Race Differences in the Relationship between Obesity and C-Reactive Protein. Ethn Dis. 2016 Apr 21;26(2):197-204. doi: 10.18865/ed.26.2.197**

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# Lee M-R, Jung SM. Serum Folate Related to Five Measurements of Obesity and High-Sensitivity C-Reactive Protein in Korean Adults. Nutrients. 2022; 14(17):3461 “folate level showed a significant inverse association with obesity and inflammatory biomarkers, especially in the middle-aged group”

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**Lee TL, Hsuan CF, Hsu CC, Wei CT, Wang CP, Lu YC, Tang WH, Lu NH, Chung FM, Lee YJ, Tsai IT. Associations of circulating total p-cresylsulfate and indoxyl sulfate concentrations with central obesity in patients with stable coronary artery disease: sex-specific insights. Int J Obes (Lond). 2024 Sep 5. doi: 10.1038/s41366-024-01624-1. Epub ahead of print. PMID: 39237758. ABSI and gut microbiota**

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**Wang H, Zhang Y, Liu Y, Li H, Xu R, Fu H, Yan C, Qu B. Comparison between traditional and new obesity measurement index for screening metabolic associated fatty liver disease. Front Endocrinol (Lausanne). 2023 Apr 21;14:1163682. doi: 10.3389/fendo.2023.1163682. PMID: 37152940; PMCID: PMC10160459.**

# Santos CML, Brito MD, Castro PASV, Vries TP, Viana NL, Coelho MPP, Malheiro OB, Bering T, Gonzalez MC, Teixeira R, Cambraia RD, Rocha GA, Silva LD. Metabolic-associated fatty liver disease is associated with low muscle mass and strength in patients with chronic hepatitis B. World J Hepatol 2022; 14(8): 1652-1666 [DOI: [10.4254/wjh.v14.i8.1652](https://dx.doi.org/10.4254/wjh.v14.i8.1652)] (High ABSI and FattyLD remained positively and independently associated with low HGS in the univariate analysis)

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# Ichikawa, T., Hashimoto, Y., Okamura, T. *et al.* Relationship between anthropometric measures and the risk of incident Metabolic dysfunction-associated steatotic liver disease: a longitudinal study. *BMC Gastroenterol* 25, 202 (2025). https://doi.org/10.1186/s12876-025-03780-8

**Pulmonary**

**Godoroja DD, Cioc DA. Identification of significant obstructive sleep apnoea in the obese patient: development of the novel DX-OSA score. Rom J Anaesth Intensive Care. 2016 Oct;23(2):111-121. doi: 10.21454/rjaic.7518/232.dxo. PMID: 28913484; PMCID: PMC5505384. Annotation (ROC with ABSI weak relationship but could be augmented by BMI- which gave highest association – No referemce)**

# Kolena B, Petrovičová I, Šidlovská M, Hlisníková H, Bystričanová L, Wimmerová S, Trnovec T. Occupational Hazards and Risks Associated with Phthalates among Slovakian Firefighters. Int J Environ Res Public Health. 2020 Apr 5;17(7):2483. doi: 10.3390/ijerph17072483. PMID: 32260494; PMCID: PMC7178246. Annotation “We observed a positive association between phthalate metabolites ) and waist-to-hip ratio (WHR; *p* = 0.003-0.09) and body shape index (ABSI; *p* = 0.039-0.09) …exposure to phthalates could be linked with changing body structure, which subsequently affects values of pulmonary functions in firefighters.”

**Soltanifar M, Karunanayake C, Khadka D, Henderson R, Konehnck N, et al. (2019) Is A Body Shape Index (ABSI) Predictive of Lung Function?. Int J Respir Pulm Med 6:101. doi.org/10.23937/2378-3516/1410101 Annotation; “ABSI may be considered as a key predictor for spirometric lung functions in men and women for Canadian First Nation Populations with more significant results in men.”**

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# Annotation “Furthermore, the associations between BMI and FEV1, as well as FVC, were reversed U-shape in both males and females. Similar non-linear association shape occurred in WC, PBF, BRI and ABSI. “

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**Pan X, Liu F, Fan J, Guo Q, Guo M, Chen Y, Sun J and Cao X (2024) Association of Body Roundness Index and A Body Shape Index with Obstructive Sleep Apnea: insights from NHANES 2015–2018 data. Front. Nutr. 11:1492673. doi: 10.3389/fnut.2024.1492673 ABSI and incident sleep apnea bell curve**

**Yeşildağ M, Şentürk Z, Bekci TT, Guney İ. The Usefulness of New Body Indices in Determining the Risk of Cardiovascular Disease in Cases with Obstructive Sleep Apnea Syndrome. Int J Gen Med. 2024 Nov 26;17:5523-5534. doi: 10.2147/IJGM.S489904. PMID: 39624611; PMCID: PMC11609410. Cor(BMI,ABSI) ~ -0.6!**

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**Renal**

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**Thyroid**

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# Abstract: ..TSH was found to be negatively correlated with ABSI (p = 0.006) .. Free T4 was not associated with any of the anthropometric measurements.While fT3 was determined to be positively correlated with ABSI (p = 0.008) and negatively correlated with PBF and BAI (p = 0.001, p = 0.002, respectively),…

**Ob-Gyn**

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**Hewage N, Wijesekara U, Perera R. Insulin Resistance-Related Cardiometabolic Risk Among Nondiabetic Childbearing Age Females. Metab Syndr Relat Disord. 2024 Apr 11. doi: 10.1089/met.2024.0009. Epub ahead of print. PMID: 38603585.**

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**GU**

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**Chang, K., Li, B., Wang, G. *et al.* Association between Chinese visceral adiposity index and lower urinary tract symptoms suggestive of benign prostatic hyperplasia (LUTS/BPH): a national cohort study. *BMC Urol* 25, 15 (2025).** [**https://doi.org/10.1186/s12894-025-01698-7**](https://doi.org/10.1186/s12894-025-01698-7) **ABSI OR peaks and then falls at 0.8?**

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**Guo W, Zhao S, Chang Q, Sun J, Fan Y, Liu J. Negative association between 15 obesity- and lipid-related indices and testosterone in adult males: a population based cross-sectional study. Lipids Health Dis. 2025 Jan 25;24(1):24. doi: 10.1186/s12944-025-02436-6. PMID: 39863911; PMCID: PMC11762110.**

**Ortho**

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