B”SD

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**1/1/2025**

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

**ABSI references to 6/24:**[**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”

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**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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**Zhang Y, Gao W, Li B, Liu Y, Chen K, Wang A, Tang X, Yan L, Luo Z, Qin G, Chen L, Wan Q, Gao Z, Wang W, Ning G, Mu Y. The association between a body shape index and elevated urinary albumin-creatinine ratio in Chinese community adults. Front Endocrinol (Lausanne). 2022 Jul 28;13:955241. doi: 10.3389/fendo.2022.955241. PMID: 35966103; PMCID: PMC9365939.**

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**Thyroid**

**Demir Ş, Kara Y, Melikoğlu M, Aydın K, Özderya A, Subaşı HE, Dabak MR, Temizkan Ş. New Anthropometric Measurements: Relationship to Thyroid Functions in Euthyroid Obese Subjects. Cureus. 2021 Dec 15;13(12):e20435. doi: 10.7759/cureus.20435. PMID: 35047272; PMCID: PMC8759458.**

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**Ob-Gyn**

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**GU**

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**Ortho**

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**Ding Z, Qu X, Zhu Q, Tang J, Zhu Z, Chen C, Chu F, Sun M, Yuan F. Abdominal obesity: A lethal factor in elderly male osteoporosis patients - insights from NHANES. Nutr Metab Cardiovasc Dis. 2024 Nov 8:103788. doi: 10.1016/j.numecd.2024.103788. Epub ahead of print. PMID: 39674721.**

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**Neuro-Psych**

# Lotfi K, Hassanzadeh Keshteli A, Saneei P, Afshar H, Esmaillzadeh A and Adibi P (2022) A Body Shape Index and Body Roundness Index in Relation to Anxiety, Depression, and Psychological Distress in Adults. *Front. Nutr.* 9:843155. doi: 10.3389/fnut.2022.843155

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