

Prediction of sarcopenia using a combination of multiple serum biomarkers

Ju Yeon Kwak^{1†}, Hyeoncheol Hwang^{2†}, Seon-Kyu Kim^{3†}, Jeong Yi Choi¹, Seung-Min Lee¹, Hyun Bang², Eun-Soo Kwon¹, Kwang-Pyo Lee^{1,5}, Sun Gun Chung^{2,4*}, and Ki-Sun Kwon^{1,6*}

¹*Aging Research Center, Korea Research Institute of Bioscience & Biotechnology, 125 Gwahak-ro, Yuseong-gu, Daejeon, 34141, Republic of Korea.* ²*Department of Rehabilitation Medicine, Seoul National University College of Medicine, Seoul National University Hospital, 101 Daehak-ro, Jongno-gu, Seoul, 03080, Republic of Korea.* ³*Personalized Genomic Medicine Research Center, Korea Research Institute of Bioscience & Biotechnology, 125 Gwahak-ro, Yuseong-gu, Daejeon, 34141, Republic of Korea.* ⁴*Institute of Aging, Seoul National University, 101 Daehak-ro, Jongno-gu, Seoul, 03080, Republic of Korea.* ⁵*Department of Biomolecular Science, and* ⁶*Functional Genomics, Korea University of Science and Technology (UST), 217 Gajeong-ro, Yuseong-gu, Daejeon, 34113, Republic of Korea*

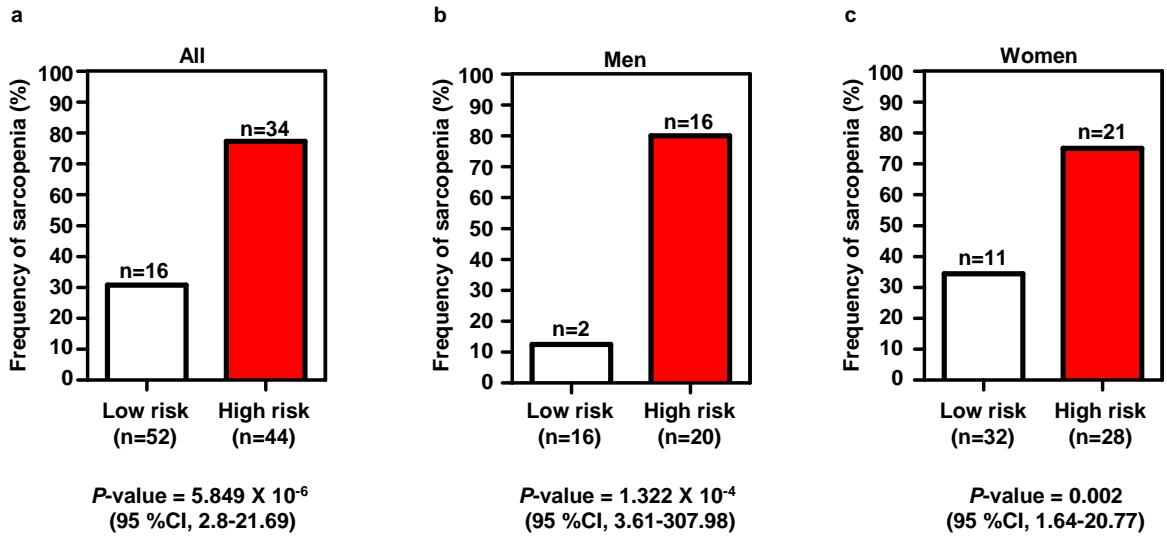
†equal contribution

*Correspondence to:

Ki-Sun Kwon, Korea Research Institute of Bioscience and Biotechnology, 125 Gwahak-ro, Yuseong-gu, Daejeon, 34141, Republic of Korea, Tel.: +82-42-860-4143, Fax: +82-42-879-8596, E-mail: kwonks@kribb.re.kr

Sun Gun Chung, Department of Rehabilitation Medicine, College of Medicine, Seoul National University, 101 Daehak-ro, Jongno-gu, Seoul, 03080, Republic of Korea, Tel: +82-2-2072-2560, Fax: +82-2-743-7473, E-mail: suncg@snu.ac.kr

Supplementary Figure 1.



Supplementary Figure 1. Comparison of frequencies of sarcopenia based on ROC analysis.

(a) Comparison of frequencies of sarcopenia in low- and high-risk groups stratified by best cutoff (1.529) obtained from ROC analysis. Bar plots displaying sarcopenia frequencies of low- and high-risk groups in men (b) and women (c). The best cutoff values in men and women were calculated as 1.543 and 1.505, respectively. *P*-value and confidence interval (CI) were obtained using Fisher's exact test.