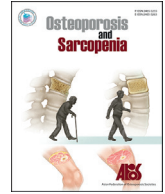




Contents lists available at ScienceDirect

Osteoporosis and Sarcopenia

journal homepage: <http://www.elsevier.com/locate/afos>

Letter to Editor

Significant change for body composition data



We found it a little difficult to interpret the work of Paranhos Amorim et al. [1] as body fat and appendicular skeletal mass were analyzed for difference statistically. It is unclear to us if body composition values truly obey the laws of statistics. We suspect that it is more complicated and true reference ranges for clinically significant change is required.

By contrast, bone mineral densitometry has established test-retest variation of 2–3% for both spine and hip [2]. Hence, the findings of another article in the same issue by Mochizuki et al [3] is quite believable as it reported changes as percentages which are clearly beyond the clinically significant range. Until this is also established for body composition data, significant changes are difficult to interpret.

Conflict of interest

The authors declare no competing interests.

Acknowledgments

ORCID Joseph C Lee: 0000-0002-7683-8825. Alaa Alghamry: 0000-0002-9664-530X.

References

- [1] Paranhos Amorim DN, Nascimento DDC, Stone W, Alves VP, Coelho Vilaça E, Silva KH. Body composition and functional performance of older adults.

Osteoporosis Sarcopenia 2022;8:86–91.

- [2] Lee JC, Loh NK. Frequently asked questions on measurement of bone mineral densitometry. *J Prim Health Care* 2012;4:259–61.
- [3] Mochizuki T, Yano K, Ikari K, Okazaki K. Two-year effectiveness of zoledronic acid with or without eldelcalcitol in Japanese patients with osteoporosis: a randomized prospective study. *Osteoporosis Sarcopenia* 2022;8:75–9.

Joseph C. Lee*

Faculty of Medicine, University of Queensland, Queensland, Australia
Medical Imaging Department, The Prince Charles Hospital,
Queensland, Australia

Alaa Alghamry

Faculty of Medicine, University of Queensland, Queensland, Australia
Internal Medicine Services, The Prince Charles Hospital, Queensland,
Australia

* Corresponding author. Medical Imaging Department, The Prince Charles Hospital, Rode Road, Chermside, Queensland, 4032, Australia.

E-mail address: Joseph.Lee@health.qld.gov.au (J.C. Lee).

22 August 2022

Available online 29 September 2022