



LEEDS
BECKETT
UNIVERSITY

Citation:

Hind, K and Slater, G and Lees, M and Thurlow, S and Barlow, M and Oldroyd, B and Shepherd, J (2018) Interpretation of dual energy X-ray absorptiometry-derived body composition change in athletes : a review and recommendations for best practice. *Journal of Clinical Densitometry*, 21 (3). pp. 429-443. ISSN 1094-6950 DOI: <https://doi.org/10.1016/j.jocd.2018.01.002>

Link to Leeds Beckett Repository record:

<https://eprints.leedsbeckett.ac.uk/id/eprint/4641/>

Document Version:

Article (Supplemental Material)

The aim of the Leeds Beckett Repository is to provide open access to our research, as required by funder policies and permitted by publishers and copyright law.

The Leeds Beckett repository holds a wide range of publications, each of which has been checked for copyright and the relevant embargo period has been applied by the Research Services team.

We operate on a standard take-down policy. If you are the author or publisher of an output and you would like it removed from the repository, please [contact us](#) and we will investigate on a case-by-case basis.

Each thesis in the repository has been cleared where necessary by the author for third party copyright. If you would like a thesis to be removed from the repository or believe there is an issue with copyright, please contact us on openaccess@leedsbeckett.ac.uk and we will investigate on a case-by-case basis.

Figure 2. Categories and quality assessment rubric

Category	Description
Reference to precision	In-house precision study conducted Reference only to published precision study elsewhere No reference to machine precision
Precision protocol	(a) 30 subjects scanned twice or (b) 15 subjects scanned three times Less than the International Society for Clinical Densitometry recommended sample size for precision studies (above) No precision study conducted/referenced
Precision sample selection	Precision sample specific to the study group Precision sample not specific to the study group No precision study conducted/referenced
Precision error	CV% and/or RMS-SD provided Alternative test-retest assessment No precision values provided
Assessment of significant change	LSC or alternative provided No LSC provided but can be calculated from precision error No LSC/alternative and not possible to calculate <i>or</i> no precision study conducted/referenced.
Interpretation of change	Change in DXA outcomes interpreted using LSC/alternative at the individual level Group means evaluated statistically and reference to precision error in Results and/or Discussion

Group means only evaluated statistically without consideration of precision error.

Subject preparation

Detailed standardised subject preparation protocol (e.g. standardised for more than one biological factor, such as fully hydrated and no exercise 12 - 24 h prior to scanning)

Partly standardised preparation protocol (e.g. standardised for one biological factor)

No standardised subject preparation protocol and no reference to a standardised protocol.
