



Dual-Energy X-ray Absorptometry Studies

Updated: April 2018

	Date	Body Comp	Bone Mineral Density	% Body Fat	Trabecular Bone Score	Fracture Risk	Atypical Femoral Fracture (AFF)	Sarcopenia	Human performance/Athletics	Obesity	Metabolic disease/Visceral Fat	Abdominal aortic calcification	Reimbursement	Cost Effectiveness	Pediatric	Hip Structure Analysis	Precision	Osteoporosis
<p>Three-Compartment Body Composition Changes in Professional Rugby Union Players Over One Competitive Season: A Team and Individualized Approach</p> <p>Lees MJ, Oldroyd B, Jones B, Brightmore A, O'Hara JP, Barlow MJ, Till K, Hind K. - J Clin Densitom. 2016 May 5. pii: S1094-6950(16)30048-8. doi: 10.1016/j.jocd.2016.04.010</p> <p>*Key Point: This study highlights the advantages of an individualized approach to dual-energy X-ray absorptiometry body composition monitoring and this can be achieved through application of derived LSC.</p>	May-16	X					X											
<p>Assessment of Fat distribution and Bone quality with Trabecular Bone Score (TBS) in Healthy Chinese Men</p> <p>Shan Lv, Aisen Zhang, Wenjuan Di, Yunlu Sheng, Peng Cheng, Hanmei Qi, Juan Liu, Jing Yu, Guoxian Ding, Jinmei Cai, and Bin Lai, Sci Rep. 2016; 6: 24935. doi: 10.1038/srep24935</p>	Apr-16	X			X					X								
<p>Seasonal Changes in Whole Body and Regional Body Composition Profiles of Elite Collegiate Ice-Hockey Players.</p> <p>Prokop NW, Reid RE, Andersen RE - J Strength Cond Res. 2016 Mar;30(3):684-92. doi: 10.1519/JSC.0000000000001133. PMID: 26907839</p> <p>*Key Point: The purpose of the study was to investigate changes in whole-body and regional-body composition of fat and lean tissue. The body composition profiles of 19 elite Canadian collegiate hockey players were assessed using dual energy X-ray absorptiometry.</p>	Mar-16	X		X			X		X									
<p>Detecting meaningful body composition changes in athletes using dual-energy x-ray absorptiometry.</p> <p>Colyer SL, Roberts SP, Robinson JB, Thompson D, Stokes KA, Bilzon JL, Salo AI - Physiol Meas. 2016 Apr;37(4):596-609. doi: 10.1088/0967-3334/37/4/596. Epub 2016 Mar 30.</p> <p>*Key Point: DXA was able to detect real body composition changes without the use of stringent scanning controls. Associations between changes in body composition and performance demonstrated the potential influence of these changes on strength and power indices.</p>	Mar-16	X							X									
<p>Comparison of Adipose Distribution Indices with Gold Standard Body Composition Assessments in the EMPAREG H2H SU Trial: A Body Composition SubStudy</p> <p>Ian J. Neeland, Darren K. McGuire, Björn Eliasson, Martin Ridderstråle, Cordula Zeller, Hans J. Woerle, Uli C. Broedl, and Odd Erik Johansen Diabetes Ther. 2015 Dec; 6(4): 635–642. doi: 10.1007/s1330001501467</p>	Nov-15	X		X							X							



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Sarcopenia: European consensus on definition and diagnosis: Report of the European Working Group on Sarcopenia in Older People Alfonso J. Cruz-Jentoft, Jean Pierre Baeyens, Jürgen M. Bauer, Yves Boirie, Tommy Cederholm, Francesco Landi, Finbarr C. Martin, Jean-Pierre Michel, Yves Rolland, Stéphane M. Schneider, Eva Topinková, Maurits Vandewoude, Mauro Zamboni Age Ageing. 2010 Jul;39(4):412-23. doi: 10.1093/ageing/afq034. Epub 2010 Apr 13.	Apr-10	X						X										
PSA and body composition by dual X-ray absorptiometry (DXA) in NHANES. Jay H. Fowke and Charles E. Matthews. Prostate. 2010 Feb 1;70(2):120-5. doi: 10.1002/pros.21039	Feb-10	X								X								
Body Composition in Athletes: Assessment and Estimated Fatness Malina RA - Clinics in Sports Medicine, Volume 26, Issue 1, January 2007, Pages 37-68 *Key Point: Provides an overview of models and methods used for studying body composition, changes in body composition during adolescence and the transition into adulthood, and applications to adolescent and young adult athletes.	Jan-07	X	X	X														
Modeling elite male athletes' peripheral bone mass, assessed using regional dual x-ray absorptiometry Nevill AM, R.L. Holder, A.D. Stewart - Bone, Volume 32, Issue 1, January 2003, Pages 62-68 *Key Point: The results from this study suggest that the bone mass acquisition of elite athletes' arms and legs increases in proportion to the projected bone area, having simultaneously controlled/removed the effect of the confounding variables of body mass and body fat.	Jan-03	X	X	X														

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