



Matsuzaki, M., Kulkarni, B., Kuper, H., Wells, J. C., Ploubidis, G. B., Prabhakaran, P., ... Kinra, S. (2017). Association of Hip Bone Mineral Density and Body Composition in a Rural Indian Population: The Andhra Pradesh Children and Parents Study (APCAPS). PLoS ONE, 12(1), [0167114]. DOI: 10.1371/journal.pone.0167114

Publisher's PDF, also known as Version of record

License (if available):
CC BY

Link to published version (if available):
[10.1371/journal.pone.0167114](https://doi.org/10.1371/journal.pone.0167114)

[Link to publication record in Explore Bristol Research](#)
PDF-document

This is the final published version of the article (version of record). It first appeared online via Public Library of Science at <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0167114>. Please refer to any applicable terms of use of the publisher.

University of Bristol - Explore Bristol Research

General rights

This document is made available in accordance with publisher policies. Please cite only the published version using the reference above. Full terms of use are available:
<http://www.bristol.ac.uk/pure/about/ebr-terms.html>

Supplemental Material Table S1: Multilevel regression models examining association between hip bone mineral density and fat to lean mass ratio in the participants of the Andhra Pradesh Parents and Children Study (2009-2012).

		Model 2	p	Model 3	p
		β		β	
		95% CI		95% CI	
Women	n = 1200				
(pre)					
	FLR	0.008	<0.001	-0.01	<0.001
		(0.004 to 0.011)		(-0.014 to -0.006)	
Women	n = 560				
(post)					
	FLR	0.014	<0.001	-0.009	0.005
		(0.009 to 0.019)		(-0.014 to -0.003)	
Men	n = 2248				
	FLR	0.01	0.003	-0.046	<0.001
		(0.004 to 0.017)		(-0.054 to -0.039)	

CI = confidence interval; FLR = fat to lean mass ratio

All models are multilevel models adjusting for household level clustering. ϵ_{ij} and v_j are errors terms for multilevel regression models accounting for individual and household level differences.

Model 3: HIP BMD = $\beta_0 + \beta_1\text{FLR} + \beta_2\text{AGE} + \beta_3\text{HEIGHT} + \epsilon_{ij} + v_j$

Model 4: HIP BMD = $\beta_0 + \beta_1\text{FLR} + \beta_2\text{AGE} + \beta_3\text{HEIGHT} + \beta_4\text{WEIGHT} + \epsilon_{ij} + v_j$

Age (years); Height (cm); Fat and lean mass (kg)

FLR for women: $\frac{\text{fat mass}}{\text{lean mass}^{1.57}} \times 100$; for men: $\frac{\text{fat mass}}{\text{lean mass}^{1.66}} \times 100$