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**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
		$\beta$		$\beta$	
		95% CI		95% CI	
Women	n = 1200				
(pre)					
	FLR	0.008 (0.004 to 0.011)	<0.001	-0.01 (-0.014 to -0.006)	<0.001
Women	n = 560				
(post)					
	FLR	0.014 (0.009 to 0.019)	<0.001	-0.009 (-0.014 to -0.003)	0.005
Men	n = 2248				
	FLR	0.01 (0.004 to 0.017)	0.003	-0.046 (-0.054 to -0.039)	<0.001

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

All models are multilevel models adjusting for household level clustering.  $\epsilon_{ij}$  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:  $\frac{\text{fat mass}}{\text{lean mass}^{1.66}} \times 100$