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EDITED AND REVIEWED BY
Weimin Ye,
Karolinska Institutet (KI), Sweden

*CORRESPONDENCE
Roberto Fernandes da Costa
✉ roberto@robertocosta.com.br

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Corrigendum: Development and cross-validation of a predictive equation for fat-free mass in Brazilian adolescents by bioelectrical impedance

Roberto Fernandes da Costa[1]*, Analiza M. Silva[2], Kalina Veruska da Silva Bezerra Masset[1], Tatianny de Macêdo Cesário[1], Breno Guilherme de Araújo Tinoco Cabral[1], Gerson Ferrari[3,4] and Paulo Moreira Silva Dantas[1]

[1]Physical Education Department, Health Sciences Center, Federal University of Rio Grande do Norte, Natal, Brazil, [2]Exercise and Health Laboratory, CIPER, Faculdade Motricidade Humana, Universidade de Lisboa, Lisbon, Portugal, [3]Escuela de Ciencias de la Actividad Física, el Deporte y la Salud, Universidad de Santiago de Chile (USACH), Santiago, Chile, [4]Grupo de Estudio en Educación, Laboratorio de Rendimiento Humano, Actividad Física y Salud (GEEAFyS), Universidad Católica del Maule, Talca, Chile

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body composition, bioelectrical impedance analysis (BIA), fat-free mass (FFM), fat mass, equations, mathematical models, cross-validation

A corrigendum on
Development and cross-validation of a predictive equation for fat-free mass in Brazilian adolescents by bioelectrical impedance

By Costa, R. F., Silva, A. M., Masset, K. V. d. S. B., Cesário. T. d. M., Cabral, B. G. d. A. T., Ferrari, G., and Dantas, P. M. S. (2022). *Front. Nutr.* 9:820736. doi: 10.3389/fnut.2022.820736

In the original article, there was a mistake in Table 4 as published. The article included a table referring to another mathematical model, which does not refer to this study. The corrected Table 4 appears below.

In the original article, there was an error on page 5 in the section **Results**. In the presentation of the mathematical model for FFM estimation, the word "Fri" appears instead of the word "Sex."

The corrected mathematical model included is presented below:

$$\begin{aligned}\text{FFM} = &-17.189 + 0.498\,(\text{Height}^2/\text{Resistance}) + 0.226\,\text{Weight} + 0.071\,\text{Reactance} \\ &- 2.378\,\text{Sex} + 0.097\,\text{Height} + 0.222\,\text{Age}\end{aligned}$$

Sex: male = 0; female = 1

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Publisher's note

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TABLE 4 Regression model for the prediction of fat-free mass (kg).

Variables included in the model	Regression coefficient	r^2	SEE	*p*-value	Collinearity statistics	
					Tolerance	VIF
Constant	−17.189			<0.001		
Ht^2/R	+0.498	0.916[a]	3.214	<0.001	0.144	6.961
Weight	+0.226	0.935[b]	2.850	<0.001	0.175	5.713
Reactance	+ 0.071	0.942[c]	2.689	<0.001	0.639	1.565
Sex	−2.378	0.947[d]	2.579	<0.001	0.693	1.443
Height	+0.097	0.949[e]	2.528	0.002	0.533	1.625
Age	+0.222	0.951[f]	2.498	0.027	0.355	2.817

SEE, standard error of the estimate; VIF, variance inflation factor. Predictors: [a](Constant), Ht^2/R. [b](Constant),s Ht^2/R, weight. [c](Constant), Ht^2/R, weight, and reactance; [d](Constant), Ht^2/R, weight, reactance, and sex. [e](Constant), Ht^2/R, weight, reactance, sex, and height; [f](Constant), Ht^2/R, weight, reactance, sex, and age. The r^2 change was significant for a, b, c, d, e, and, f.