

Table S1. Basal ($E_{\text{metab-basal}}$) and gross ($E_{\text{metab-gross}}$) metabolic walking rates included in the scaling analysis

Subjects	$E_{\text{metab-basal}}$ (W kg ⁻¹)	$E_{\text{metab-gross}}$ (W kg ⁻¹)	$E_{\text{metab-basal}}/E_{\text{metab-gross}} \times 100$ (%)	Source
Children; ages 5–7	2.18±0.12	5.14±0.27	43.0	Present study – group A
Children; ages 8–14	1.55±0.06	4.08±0.13	38.0	Present study – group B
Children and adults; ages 11–29	1.31±0.04	3.76±0.16	34.8	Present study – group C
Children and adults; ages 16–32	1.13±0.03	3.66±0.13	30.9	Present study – group D
Adults	1.19	4.81	24.7	Bastien et al., 2005
Obese adult males	0.95	3.04	31.3	Browning et al., 2006
Obese adult females	0.85	3.05	27.9	Browning et al., 2006
Non-obese adult males	1.17	3.06	38.5	Browning et al., 2006
Non-obese adult females	1.13	3.21	35.3	Browning et al., 2006
Adult males	1.27	4.47	28.4	Cotes and Meade, 1960
Children; ages 3–4	2.32	6.34	36.6	DeJaeger et al., 2001
Children; ages 5–6	2.10	5.45	38.5	DeJaeger et al., 2001
Children; ages 7–8	1.98	5.30	37.3	DeJaeger et al., 2001
Children; ages 9–10	1.74	4.60	37.7	DeJaeger et al., 2001
Children; ages 11–12	1.59	3.66	43.5	DeJaeger et al., 2001
Adults	1.17	3.84	30.6	DeJaeger et al., 2001
Male children	2.04	8.89	23.0	Freedson et al., 1981
Obese children	1.52	6.15	24.7	Maffeis et al., 1993
Non-obese children	1.82	5.63	32.3	Maffeis et al., 1993
Young active adults	1.15	3.65	31.6	Martin et al., 1992
Young sedentary adults	1.14	3.74	30.6	Martin et al., 1992
Adolescents	1.28	4.51	28.4	McCann and Adams, 2002
Adults	1.06	4.36	24.3	McCann and Adams, 2002
Adult males	1.16	4.41	26.2	Mian et al., 2006
Children; age 6	2.12	5.23	40.6	Morgan et al., 2002
Children; age 7	1.84	4.86	37.9	Morgan et al., 2002
Children; age 8	1.61	3.99	40.3	Morgan et al., 2002
Children; age 9	1.40	4.42	31.6	Morgan et al., 2002
Children; age 10	1.55	4.29	36.2	Morgan et al., 2002

Basal metabolic rates were calculated from age, height, mass and gender from equations of Schofield et al., 1985.

Age, stature, and mass ranges for the 48 original subjects were: 5 to 32 years, 1.07 to 1.83 meters, and 15.9 to 88.7 kg, respectively.