

Supplementary material

Table 1. The effect of Vitamin D supplementation on aerobic and anaerobic capacity.

Variables	PLA		SUP	
	Pre	Post	Pre	Post
25-OH-D ₃ [ng*ml ⁻¹]	20.7 ± 6.8	21.2 ± 4.7	19.6 ± 5.4	58.4 ± 7.3 ^{ab}
25-OH-D ₃ delta[ng*ml ⁻¹]		0.5 ± 5.4		38.8 ± 9.4 ^b
VO _{2max} [ml*min*kg] ⁻¹	50.8 ± 9.5	46.1 ± 7.6 ^a	48.1 ± 6.4	48.9 ± 6.3
VO _{2max} delta [ml*min*kg] ⁻¹		-4.71± 5.8		0.71 ± 6.3 ^b
VE _{max} [l*min] ⁻¹	131.9 ± 29.6	137.0 ± 28.5	133.3 ± 21.1	154.6 ± 18.4 ^a
BF _{max} [1*min] ⁻¹	49.7 ± 9.9	50.6 ± 8.8	51.7 ± 5.8	57.7 ± 9.1 ^a
MAP [W]	263.9 ± 46.2	273.2 ± 45.7	257.1 ± 28.4	277.8 ± 33.5 ^a
MAnP [W*kg ⁻¹]	10.3 ± 0.7	10.7 ± 0.8	9.9 ± 0.9	10.7 ± 0.9 ^a
Work output [J*kg ⁻¹]	246.9 ± 18.7	254.3 ± 17.6	239.6 ± 17.4	252.8 ± 17.7 ^a

PLA: placebo group; SUP: supplemented group; values are mean ± SD expressed in absolute or relative values; 25-OH-D₃: 25-hydroxyvitamin D; VO_{2max}: maximal oxygen uptake; VEmax: maximal lung minute ventilation; BFmax: maximal breath frequency; MAP: maximal aerobic power; MAnP: maximal anaerobic power.

a significant differences from pre-treatment.

b significant differences between groups.