



Figure S1 Fitting results of the corresponding spectrum in the vertebral body (A), femoral neck (B), and distal tibia (C), including the residue, individual components, as well as the estimated and original spectrum.

Table S1 The mean \pm standard deviation of fat content and unsaturated fatty index values of bilateral tibias between the players and control groups with fitting all lipid peak

Location	Fat content (%)			Unsaturated fatty index (%)		
	Players	Controls	P value ^a	Players	Controls	P value ^a
Left tibia	90.78 \pm 3.84	92.77 \pm 2.07	0.052	6.69 \pm 1.16	7.23 \pm 0.82	0.100
Right tibia	92.03 \pm 2.23	93.22 \pm 2.26	0.104	8.91 \pm 5.00	8.03 \pm 1.08	0.441

Values are expressed as mean \pm standard deviation. ^a, calculated using the independent samples t-test to show the difference between soccer players and healthy subjects.