

Table 3 Multiple regression analysis of spirometric parameters and anthropometric factors in healthy young Iranian males and females

Parameter	Height (cm)		Weight (kg)		BMI (kg/m ²)		Thorax (cm)	
	r	P-value	r	P-value	r	P-value	r	P-value
<i>Males (n = 152)</i>								
TV	0.449	0.000	0.212	0.009	-0.095	0.245	0.305	0.001
IRV	0.547	0.000	0.241	0.003	-0.066	0.423	0.233	0.014
ERV	0.572	0.000	0.294	0.000	-0.048	0.554	0.292	0.002
RV	0.246	0.002	0.004	0.960	-0.105	0.200	-0.103	0.283
IC	0.680	0.000	0.321	0.000	-0.081	0.318	0.327	0.000
FRC	0.645	0.000	0.244	0.002	-0.112	0.169	0.160	0.094
VC	0.753	0.000	0.394	0.000	-0.053	0.517	0.384	0.000
TLC	0.785	0.000	0.315	0.000	-0.138	0.091	0.302	0.001
FEV1	0.426	0.000	0.111	0.173	-0.149	0.067	0.264	0.005
FVC	0.448	0.000	0.176	0.030	-0.129	0.114	0.306	0.001
FEV1/FVC	0.058	0.481	-0.041	0.614	-0.410	0.619	0.006	0.954
<i>Females (n = 150)</i>								
TV	0.341	0.000	0.161	0.050	-0.058	0.484	0.251	0.002
IRV	0.732	0.000	0.607	0.000	0.180	0.028	0.640	0.000
IC	0.726	0.000	0.610	0.000	0.186	0.023	0.637	0.000
ERV	0.515	0.000	0.189	0.020	-0.183	0.025	0.424	0.000
RV	0.782	0.000	0.416	0.000	-0.103	0.209	0.552	0.000
FRC	0.785	0.000	0.366	0.000	-0.175	0.033	0.580	0.000
VC	0.794	0.000	0.567	0.000	0.073	0.372	0.681	0.000
TLC	0.866	0.000	0.564	0.000	0.013	0.876	0.703	0.000
FEV1	0.762	0.000	0.468	0.000	-0.016	0.851	0.639	0.000
FVC	0.586	0.000	0.366	0.000	-0.005	0.916	0.501	0.000
FEV1/FVC	0.057	0.866	0.051	0.537	0.020	0.820	0.084	0.307

r = correlation coefficient; *n* = total number of participants.

BMI = body mass index.

TV = tidal volume; *IRV* = inspiratory reserve volume; *IC* = inspiratory capacity; *ERV* = expiratory reserve volume; *RV* = residual volume; *FRC* = functional residual capacity; *VC* = vital capacity; *TLC* = total lung; *FEV1* = forced expiratory volume in 1 s; *FVC* = forced vital capacity.