

Supplementary Material 4. Comparison of lung function between obesity and non-obesity groups defined by different obesity parameters in

	FVC (L)			FEV ₁ (L)		
	Obesity	Non obesity	p-value	Obesity	Non obesity	p-value
Obesity groups defined by different parameters in men						
BMI	3.89 ± 0.53	3.86 ± 0.48	0.200	3.19 ± 0.57	3.19 ± 0.52	0.251
WC	3.85 ± 0.52	3.89 ± 0.48	0.404	3.17 ± 0.57	3.21 ± 0.51	0.152
WHR	3.85 ± 0.49	3.91 ± 0.52	0.106	3.15 ± 0.52	3.25 ± 0.57	0.006
WHtR	3.82 ± 0.48	3.99 ± 0.53	0.003	3.13 ± 0.52	3.32 ± 0.57	< 0.001
BFP	3.79 ± 0.48	3.97 ± 0.51	0.015	3.09 ± 0.52	3.31 ± 0.54	< 0.001
Obesity groups defined by different parameters in women						
BMI	2.67 ± 0.38	2.78 ± 0.41	< 0.001	2.27 ± 0.41	2.41 ± 0.45	< 0.001
WC	2.67 ± 0.39	2.82 ± 0.40	< 0.001	2.27 ± 0.42	2.47 ± 0.44	< 0.001
WHR	2.68 ± 0.39	2.92 ± 0.36	< 0.001	2.27 ± 0.42	2.60 ± 0.40	< 0.001
WHtR	2.64 ± 0.37	2.91 ± 0.39	< 0.001	2.23 ± 0.40	2.57 ± 0.41	< 0.001
BFP	2.60 ± 0.36	2.90 ± 0.39	< 0.001	2.19 ± 0.39	2.55 ± 0.40	< 0.001

men and women.

Abbreviation, FVC: forced vital capacity; FEV₁: forced expiratory volume in 1 second; BMI: Body Mass Index; WHR: the ratio of waist circumference to hip circumference; WHtR: the ratio of waist circumference to height; BFP: Body fat percentage; Obesity was defined BMI

using as a BMI ≥ 25 kg/m²; Obesity was defined by WC using as WC ≥ 90 cm for men and WC ≥ 80 cm for women; Obesity was defined by WHR using as WHR ≥ 0.90 for men and WHR ≥ 0.80 for women; Obesity was defined by WHtR using as WHtR ≥ 0.5 both for men and women; Obesity is defined BFP using as BFP ≥ 25 for men and BFP ≥ 33 for women. Comparison of FVC and FEV₁ between obesity and non-obesity were used by independent-sample t-test.