



**Supplementary Material 6.** Spearman correlation analyses of the relationship among body fat percentage and lung function parameters such as FVC (Figure 3A, men, spearman's  $\rho = -0.229$ ,  $p < 0.001$ ; Figure S3B, women, spearman's  $\rho = -0.470$ ,  $p < 0.001$ ) and FEV<sub>1</sub> (Figure S3C, men, spearman's  $\rho = -0.249$ ,  $p < 0.001$ ; Figure S3D, women, spearman's  $\rho = -0.500$ ,  $p < 0.001$ ) in men ( $n = 3,327$ ) and women ( $n = 4,957$ ) from the Chinese rural areas.