Supplementary Table 3. Inverse Mendelian analysis and sensitivity test results of the causal relationship between sarcopenia and COPD.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Exposures | Outcomes | nSNP | IVW | | horizontal pleiotropy test  MR-Egger | horizontal pleiotropy test  MR-PRESSO | Heterogeneity  -Test  IVW | Heterogeneity  -Test  MR-Egger | MR-Egger | | Weighted median | | Simple mode | |  | Weighted mode | |
| Estimates(95% CI) | p | Intercept(p) | p | Cochran’s Q  (p) | Cochran’s Q  (p) | Estimates(95% CI) | p | Estimates(95% CI) | p | Estimates(95% CI) | p | | Estimates(95% CI) | Estimates(95% CI) |
| COPD | ALM | 31 | 4.716 (0.235, 94.697) | 0.311 | 0.006  (0.166) | 0.318 | 218.972  (1e-30) | 204.751  (2e-28) | 0.11 (1e-4, 42.671) | 0.480 | 0.395 (0.064, 2.444) | 0.318 | 0.242 (0.009, 6.494) | 0.404 | | 0.242 (0.013, 4.569) | 0.351 |
| COPD | UWP | 29 | 0.509 (0.239, 1.084) | 0.080 | -0.001  (0.297) | 0.542 | 48.764  (0.009) | 46.807  (0.01) | 1.062 (0.225, 5.001) | 0.940 | 0.438 (0.192, 1.003) | 0.051 | 0.431 (0.090, 2.072) | 0.303 | | 0.431 (0.093, 2.007) | 0.293 |
| COPD | LHGS | 29 | 0.563 (0.207, 1.533) | 0.261 | 0.001  (0.725) | 0.673 | 62.415  (2e-4) | 62.124  (1e-4) | 0.404 (0.050, 3.277) | 0.403 | 0.679 (0.225, 2.052) | 0.493 | 0.918 (0.059, 14.189) | 0.952 | | 0.949 (0.064, 14.111) | 0.970 |
| COPD | RHGS | 27 | 0.457 (0.196, 1.063) | 0.069 | 8e-4  (0.507) | 0.075 | 37.2  (0.07) | 36.6  (0.06) | 0.273(0.048, 1.539) | 0.154 | 0.544  (0.189, 1.561) | 0.257 | 0.769 (0.067, 8.747) | 0.834 | | 0.746 (0.088, 6.272) | 0.790 |
| COPD | MVPA | 29 | 0.423 (0.100, 1.789) | 0.242 | -0.001  (0.534) | 0.149 | 58.694  (6e-4) | 57.844  (5e-4) | 0.981 (0.049, 19.633) | 0.990 | 0.638 (0.150, 2.706) | 0.542 | 1.088 (0.058, 20.418) | 0.956 | | 1.029 (0.062, 16.999) | 0.984 |