Supplementary Table 2. Forward 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) | Intercept(p) | p | Cochran’s Q  (p) | Cochran’s Q  (p) | Cochran’s Q  (p) | Estimates(95% CI) | p | Estimates(95% CI) | p | Estimates(95% CI) | p | | Estimates(95% CI) | p |
| ALM | COPD | 296 | 0.999  (0.998,0.999) | 0.042 | -4e-5  (0.173) | 0.240 | 304.1  (0.345) | 302.1  (0.359) | 1.001(0.998, 1.003) | 0.616 | 0.999 (0.998, 1.001) | 0.351 | 0.999 (0.996, 1.003) | 0.729 | | 0.999 (0.996, 1.002) | 0.385 |
| UWP | COPD | 49 | 0.988 (0.982, 0.994) | 1.5e-4 | 2.9e-5 (0.809) | 0.288 | 53.750  (0.264) | 53.682  (0.234) | 0.985(0.959, 1.011) | 0.258 | 0.985 (0.977, 0.994) | 8.1e-4 | 0.982 (0.964, 1.002) | 0.079 | | 0.985 (0.966, 1.005) | 0.140 |
| LHGS | COPD | 115 | 0.997 (0.993, 1.000) | 0.044 | 1e-4  (0.165) | 0.174 | 128.770  ( 0.163) | 126.585 (0.180) | 0.989(0.977, 1.000) | 0.060 | 0.996 (0.992, 1.001) | 0.132 | 0.997 (0.985, 1.009) | 0.586 | | 0.997 (0.986, 1.008) | 0.553 |
| RHGS | COPD | 128 | 0.996 (0.993, 0.999) | 0.007 | 2.5e-5 (0.687) | 0.723 | 117.467 (0.716) | 117.304 (0.698) | 0.994(0.984, 1.004) | 0.251 | 0.997 (0.993, 1.001) | 0.196 | 0.998 (0.988, 1.008) | 0.734 | | 0.997 (0.987, 1.007) | 0.522 |
| MVPA | COPD | 93 | 0.996 (0.993, 0.999) | 0.036 | 1e-4  (0.146) | 0.079 | 109.361 (0.105) | 106.840 (0.123) | 0.988(0.978, 0.999) | 0.045 | 0.997 (0.992, 1.002) | 0.183 | 0.996 (0.982, 1.010) | 0.538 | | 0.995 (0.982, 1.008) | 0.472 |
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