

Supplementary Table 1. Association between height-adjusted TLV and SDB in univariate and multivariate logistic regression analyses

| | Univariate | <i>P</i> | Multivariate | <i>P</i> | Multivariate | <i>P</i> |
|--|------------------|----------|------------------|----------|------------------|----------|
| | | | Model 1 | | Model 2 | |
| | OR (95% CI) | | OR (95% CI) | | OR (95% CI) | |
| Height-adjusted TLV (cm ³ /m) | | | | | | |
| Quartile 1 (smallest) | 1.00 (reference) | | 1.00 (reference) | | 1.00 (reference) | |
| Male, 1,356.2–3,673.9 | | | | | | |
| Female, 1,527.9–3,453.5 | | | | | | |
| Quartile 2 | 0.77 (0.41–1.46) | 0.43 | 0.82 (0.40–1.69) | 0.59 | 0.75 (0.36–1.58) | 0.45 |
| Male, 3,790.2–5,249.7 | | | | | | |
| Female, 3,526.9–4,669.9 | | | | | | |
| Quartile 3 | 0.86 (0.45–1.63) | 0.64 | 1.19 (0.55–2.56) | 0.66 | 1.15 (0.52–2.51) | 0.74 |
| Male, 5,276.1–7,087.4 | | | | | | |

| | | | | | | |
|---------------------------------|------------------|------|------------------|------|------------------|------|
| Female, 4,690.9–5,831.3 | | | | | | |
| Quartile 4 (largest) | 1.48 (0.77–2.86) | 0.24 | 2.86 (1.23–6.67) | 0.02 | 2.61 (1.09–6.25) | 0.03 |
| Male, 7,094.5–11,814.8 | | | | | | |
| Female, 5,847.8–10,197.8 | | | | | | |
| <i>P</i> for trend ^a | 0.24 | | 0.01 | | 0.03 | |

Note: Adjusted model 1 includes only variables significant at $P < 0.20$ in univariate analysis (Variables: height-adjusted TLV, age, male sex, receiving HD, body mass index, albumin, C-reactive protein, hemoglobin, and %VC). Adjusted model 2 includes all variables from the univariate analysis (Variables: Model 1 + smoking, hypertension, pre-existing CVD, and use of sleeping pills).

Abbreviations: TLV, total liver volume; SDB, sleep-disordered breathing; OR, odds ratio; CI, confidence interval; HD, hemodialysis; %VC, percent predicted vital capacity; CVD, cardiovascular disease

^a*P* for trend across quartiles calculated with the categorical variables of htTLKV modeled as a single continuous variable.

Supplementary Table 2. Association between height-adjusted TKV and SDB in univariate and multivariate logistic regression analyses

| | Univariate | <i>P</i> | Multivariate | <i>P</i> | Multivariate | <i>P</i> |
|--|------------------|----------|------------------|----------|------------------|----------|
| | | | Model 1 | | Model 2 | |
| | OR (95% CI) | | OR (95% CI) | | OR (95% CI) | |
| Height-adjusted TKV (cm ³ /m) | | | | | | |
| Quartile 1 (smallest) | 1.00 (reference) | | 1.00 (reference) | | 1.00 (reference) | |
| Male, 1,356.2–3,673.9 | | | | | | |
| Female, 1,527.9–3,453.5 | | | | | | |
| Quartile 2 | 1.70 (0.89–3.22) | 0.11 | 1.20 (0.54–2.66) | 0.66 | 1.15 (0.50–2.62) | 0.75 |
| Male, 3,790.2–5,249.7 | | | | | | |
| Female, 3,526.9–4,669.9 | | | | | | |
| Quartile 3 | 3.18 (1.63–6.20) | 0.001 | 2.35 (1.01–5.46) | 0.05 | 2.19 (0.92–5.24) | 0.08 |
| Male, 5,276.1–7,087.4 | | | | | | |

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|---------------------------------|------------------|-------|------------------|------|------------------|------|
| Female, 4,690.9–5,831.3 | | | | | | |
| Quartile 4 (largest) | 2.93 (1.51–5.65) | 0.001 | 1.92 (0.83–4.49) | 0.13 | 1.80 (0.75–4.33) | 0.19 |
| Male, 7,094.5–11,814.8 | | | | | | |
| Female, 5,847.8–10,197.8 | | | | | | |
| <i>P</i> for trend ^a | <0.001 | | 0.06 | | 0.09 | |

Note: Adjusted model 1 includes only variables significant at $P < 0.20$ in univariate analysis (Variables: height-adjusted TKV, age, male sex, receiving HD, body mass index, albumin, C-reactive protein, hemoglobin, and %VC). Adjusted model 2 includes all variables from the univariate analysis (Variables: Model 1 + smoking, hypertension, pre-existing CVD, and use of sleeping pills).

Abbreviations: TLV, total liver volume; SDB, sleep-disordered breathing; OR, odds ratio; CI, confidence interval; HD, hemodialysis; %VC, percent predicted vital capacity; CVD, cardiovascular disease

^a*P* for trend across quartiles calculated with the categorical variables of htTLKV modeled as a single continuous variable.