

**Supplementary Table 1.** Comparison of baseline characteristics among no, mild, moderate and severe OSA group

	No OSA (n=6)	Mild OSA (n=14)	Moderate OSA (n=16)	Severe OSA (n=13)	<i>p</i>
<b>Demographics</b>					
Age, years	58.0 (45.3–74.5)	67.5 (57.5–75.8)	70.0 (60.5–79.8)	71.0 (57.0–82.5)	0.405
Male (%)	6 (100)	11 (78.6)	14 (87.5)	9 (69.2)	0.442
Body mass index, kg/m <sup>2</sup>	20.45 (18.90–25.50)	26.04 (23.58–28.25)	24.30 (23.22–26.33)	26.13 (22.94–29.30)	0.065
Hypertension (%)	2 (33.3)	7 (50.0)	9 (56.3)	9 (69.2)	0.542
Diabetes mellitus (%)	0 (0)	1 (7.1)	8 (50.0)	4 (30.8)	0.024
Ischemic heart disease (%)	0 (0)	2 (14.0)	2 (12.5)	1 (7.7)	1.000
Atrial fibrillation (%)	1 (16.7)	2 (14.3)	5 (31.3)	5 (38.5)	0.510
Current smoking (%)	4 (66.7)	7 (50.0)	6 (37.5)	5 (38.5)	0.638
Dyslipidemia (%)	1 (16.7)	3 (21.4)	1 (6.3)	3 (23.1)	0.588
<b>Laboratory findings</b>					
White blood cell count, /mL	7645 (6210–12018)	6785 (5983–10053)	7780 (6060–10318)	8405 (6568–12425)	0.915
Hemoglobin, g/dL	14.7 (13.5–16.1)	14.5 (13.2–15.2)	13.7 (12.7–15.4)	13.4 (12.8–15.1)	0.581
High sensitivity C-reactive protein, mg/dL	0.8 (0.7–26.0)	1.4 (0.4–3.1)	1.1 (0.5–5.9)	1.0 (0.6–26.7)	0.886
Blood urea nitrogen, mg/dL	12.0 (11.8–12.8)	16.0 (13.0–19.3)	20.0 (18.0–22.8)	18.5 (10.5–22.5)	0.014
Creatinine, mmol/L	0.80 (0.66–1.00)	0.81 (0.70–0.93)	0.82 (0.65–1.33)	0.77 (0.62–0.96)	0.712
<b>OSA related variables</b>					
Apnea-hypopnea index, /h	2.2 (0.6–3.6)	9.5 (7.2–13.9)	21.9 (17.8–23.7)	40.2 (35.9–46.4)	<0.001
Oxygen desaturation index, /h	2.8 (1.3–3.9)	10.0 (7.4–11.7)	18.5 (15.9–22.8)	44.2 (37.2–52.4)	<0.001
Minimal arterial oxygen saturation, %	89.0 (86.3–91.8)	87.0 (86.3–89.0)	83.5 (81.3–86.8)	79.0 (68.0–83.0)	<0.001
<b>Clinical findings</b>					
NIHSS at admission	3 (0–8)	4 (1–9)	5 (0–13)	6 (3–17)	0.371
mRS at 3 months later	1 (1–2)	2 (1–3)	1 (1–2)	3 (3–4)	0.008
Unfavorable prognosis (mRS ≥3) at 3 months later (%)	1 (16.7)	4 (28.6)	2 (12.5)	10 (76.9)	0.002

Kruskal-Wallis test or Fisher's exact test was performed for statistical analysis. OSA: obstructive sleep apnea, NIHSS: National Institutes of Health Stroke Scale, mRS: modified Rankin Scale