

Table S1. Comparisons of baseline parameters between patients who completed the study (n=46) and those who did not (n=10)			
	Completed (n=46)	Incomplete (n=10)	P value
Male / Female	37 / 9	6 / 4	0.218†
Age (years)	50.8 (1.3)	50.7 (2.4)	0.984
Neck circumference (cm)	38.7 (0.4)	37.5 (1.3)	0.275
Waist circumference (cm)	94.5 (1.5)	92.3 (3.4)	0.535
Body mass index (kg/m ²)	27.2 (0.5)	27.2 (1.2)	0.995
Score of ESS	10.7 (0.7)	13.1 (1.7)	0.176
Smoking status			
Never	35	8	0.910*
Quit	7	1	
Current	4	1	
Alcoholic consumption			
Never	27	7	0.647*
Quit	3	1	
Current	16	2	
Hypertension			
Yes	24	4	0.623†
No	22	6	
Apnea-hypopnea index (events/hr)	30.2 (2.4)	35.8(5.7)	0.337
Minimum SaO ₂ (%)	75.3 (2.1)	71.2 (4.5)	0.407
Mean SaO ₂ (%)	93.7 (0.4)	93.3 (0.8)	0.697
Arousal index	33.1 (2.5)	25.5 (7.0)	0.235
SaO ₂ <90 (TST %)	9.6 (2.8)	3.5 (2.8)	0.318
Total sleep time (min)	384.7 (18.6)	400.9 (28.4)	0.704
Sleep efficiency (%)	76.6 (3.4)	86.6 (11.8)	0.796
Mean 24 hr BP (mmHg)			
Systolic	124.0 (2.1)	122.7 (2.4)	0.787
Diastolic	81.1 (1.5)	74.1 (2.0)	0.748
MAP	95.3 (1.5)	98.7 (2.0)	0.767
Wake time BP			
Systolic	128.4 (2.1)	128.4 (2.1)	0.490
Diastolic	83.9 (1.4)	82.2 (2.4)	0.591
MAP	98.5 (1.5)	96.4 (2.3)	0.533
Sleep time BP			
Systolic	116.0 (2.4)	114.3 (2.9)	0.656
Diastolic	75.2 (1.7)	73.0 (1.2)	0.288
MAP	89.4 (1.8)	87.5 (1.5)	0.412

Values are expressed as mean (SE).

* χ^2 test; †Fisher's exact test.

MAP= mean arterial blood pressure.

Table S2 Comparisons of changes in 24 hour BP parameters in mean (SE) with 95% CI over 3 months between therapeutic CPAP and subtherapeutic CPAP patients with hypertension

	CPAP with hypertension (n=15)	Subtherapeutic CPAP with hypertension (n=9)	p-value	95% CI of the difference in BP changes
Mean sleep time blood pressure	-5.3 (2.7)	0.1 (4.2)	0.275	(-15.4 to 4.6)
Systolic	-3.6 (2.1)	-1.3 (3.2)	0.533	(-9.8 to 5.2)
Diastolic	-3.6 (2.1)	-0.7 (3.1)	0.424	(-10.5 to 4.6)
MAP				
Mean daytime blood pressure				
Systolic	-3.5 (2.8)	1.3 (3.8)	0.304	(-14.5 to 4.7)
Diastolic	-2.9 (1.6)	-0.5 (2.2)	0.383	(-8.0 to 3.2)
MAP	-3.0 (1.8)	0.1 (2.8)	0.338	(-9.5 to 3.4)
Mean 24 hour blood pressure				
Systolic	-3.8 (2.7)	4.8 (3.2)	0.056	(-17.5 to 0.2)
Diastolic	-3.2 (1.6)	1.5 (1.9)	0.077	(-10.0 to 0.6)
MAP	-3.5 (1.8)	2.2 (2.2)	0.068	(-11.7 to 0.5)

Table S3 Comparisons of changes in 24 hour BP parameters in mean (SE) with 95% CI over 3 months between therapeutic CPAP patients with hypertension and therapeutic CPAP patients with normotension

	CPAP with hypertension (n=15)	CPAP with normotension (n=8)	p-value	95% CI of the difference in BP changes
Mean sleep time blood pressure				
Systolic	-5.3 (2.7)	-1.9 (3.3)	0.457	(-5.9 to 12.7)
Diastolic	-3.6 (2.1)	-1.7 (2.5)	0.578	(-5.1 to 9.0)
MAP	-3.6 (2.1)	-3.4 (3.0)	0.940	(-7.3 to 7.8)
Mean daytime blood pressure				
Systolic	-3.5 (2.8)	0.2 (2.5)	0.328	(-4.0 to 11.4)
Diastolic	-2.9 (1.6)	-0.3 (1.6)	0.312	(-2.6 to 7.7)
MAP	-3.0 (1.8)	-0.0 (1.8)	0.298	(-2.8 to 8.6)
Mean 24 hour blood pressure				
Systolic	-3.8 (2.7)	0.5 (1.8)	0.198	(-2.4 to 11.0)
Diastolic	-3.2 (1.6)	-1.0 (1.4)	0.359	(-2.8 to 7.4)
MAP	-3.5 (1.8)	-0.5 (1.5)	0.304	(-2.8 to 8.7)

Table S4 Comparisons of changes in 24 hour BP parameters in mean (SE) with 95% CI over 3 months between subtherapeutic CPAP patients with hypertension and those with normotension

	Subtherapeutic CPAP with hypertension (n=9)	Subtherapeutic CPAP with normotension (n=14)	p-value	95% CI of the difference
Mean sleep time blood pressure				
Systolic	0.1 (4.2)	3.5 (1.2)	0.458	(-6.5 to 13.3)
Diastolic	-1.3 (3.2)	2.3 (0.9)	0.311	(-3.9 to 11.0)
MAP	-0.7 (3.1)	2.5 (1.1)	0.352	(-4.1 to 10.4)
Mean daytime blood pressure				
Systolic	1.3 (3.8)	-0.4 (2.3)	0.688	(-10.4 to 7.0)
Diastolic	-0.5 (2.2)	-0.1 (1.6)	0.866	(-5.2 to 6.1)
MAP	0.1 (2.8)	0.2 (1.8)	0.957	(-6.4 to 6.8)
Mean 24 hour blood pressure				
Systolic	4.8 (3.2)	-6.2 (7.4)	0.269	(-30.9 to 9.1)
Diastolic	1.5 (1.9)	0.8 (1.1)	0.751	(-4.9 to 3.6)
MAP	2.2 (2.2)	0.7 (1.2)	0.526	(-6.3 to 3.3)