

Clean version

SUPPLEMENTAL MATERIAL AND RESULTS

SUPPLEMENTAL METHOD

Online Supplement Table S1: Assay-on-demand™ from Applied Biosystems, used for real-time TaqMan PCR.

Gene of interest	Abbreviation	Assay number
Cyclooxygenase type 1 isoform	COX-1	Mm00477214_m1
Cyclooxygenase type 2 isoform	COX-2	Mm00478374_m1
Thromboxane synthase	TXBS	Mm00495553_m1
Prostacyclin synthase	PGIS	Mm00447271_m1
TP receptor	TPr	Mm00436917_m1
IP receptor	IPr	Mm00801938_m1
18S ribosomal protein	18S	Hs99999901_s1

SUPPLEMENTAL RESULTS

Online Supplement Table S2: Characteristics of 14 OSA patients free of cardiovascular risk factor before and after treatment with continuous positive airway pressure (CPAP) (median duration treatment: 166 (79-279) days and median use of treatment: 5.9 (4.2-7.1) h/night). Data are presented as median (10th and 90th percentiles).

	Before CPAP	After CPAP	p
BMI (kg/m ²)	24.5 (22.8-28.4)	26.0 (23.0-29.1)	0.5
AHI (events/h)	30.4 (19.9-49.6)	0.59 (0.0-8.9)	<0.0001
RDI (events/h)	38.02 (24.2-59.3)	3.4 (0.1-12.0)	<0.0001
Minimal SaO ₂ (%)	79.0 (72.8-87.0)	87.0 (79.8-93.4)	0.008
Mean SaO ₂ (%)	94.0 (91.0-95.3)	95.0 (93.2-96.9)	0.003
SaO ₂ <90% (%TST)	2.7 (0.0-15.3)	0.05 (0.0-1.0)	0.02
RAI (events/h)	32.0 (12.9-43.0)	2.5 (0.5-9.9)	0.0001
Urinary 11-dTXB ₂ (pg/mg creatinine)	610.2 (311.1-1020.5)	688.8 (302.1-992.8)	0.8

CPAP, continuous positive airway pressure; BMI, Body mass index; AHI, apnea/hypopnea index; RDI, respiratory disturbance index; SaO₂, arterial oxygen saturation; TST, total sleep time; RAI, respiratory arousal index; 11-dTXB₂, 11-dehydrothromboxane B₂.

Online Supplement Table S3: Characteristics of 21 OSA patients with cardiovascular risk factor before and after treatment with continuous positive airway pressure (CPAP) (median duration treatment: 178 (59-289) days and median use of treatment: 6.1 (4.5-7.5) h/night). Data are presented as median (10th and 90th percentiles).

	Before CPAP	After CPAP	p
BMI (kg/m ²)	29.6 (24.0-34.5)	28.8 (24.3-31.7)	0.6
AHI (events/h)	38.2 (22.0-66.6)	0.65 (0.0-7.5)	<0.0001
RDI (events/h)	55.2 (29.9-66.1)	4.2 (0.5-10.1)	0.0001
Minimal SaO ₂ (%)	82.5 (71.2-86.9)	91.0 (86.4-92.0)	0.02
Mean SaO ₂ (%)	92.0 (87.0-94.1)	95.2 (93.0-97.1)	0.008
SaO ₂ <90% (%TST)	5.5 (0.1-28.6)	0.0 (0.0-0.4)	0.04
RAI (events/h)	30.2 (18.2-73.1)	2.45 (0.0-9.2)	0.0009
Urinary 11-dTXB ₂ (pg/mg creatinine)	655.6 (222.5-1293.1)	610.6 (3296.2-1389.2)	0.8

CPAP, continuous positive airway pressure; BMI, Body mass index; AHI, apnea/hypopnea index; RDI, respiratory disturbance index; SaO₂, arterial oxygen saturation; TST, total sleep time; RAI, respiratory arousal index; 11-dTXB₂, 11-dehydrothromboxane B₂.

