

Table S1—Prevalence, sensitivity, specificity, and positive (PPV) and negative (NPV) predictive values for different cut-offs of AHI* from the HST (Nox-T3_{home}) and in-lab portable monitor recording (Nox-T3_{lab}) versus the PSG.

Measure	Prevalence	Sensitivity	Exact 95% CI		Specificity	Exact 95% CI		PPV	NPV
			LB	UB		LB	UB		
Nox-T3 _{home} versus PSG									
AHI, events/h									
≥5	0.94	0.99	0.93	1.00	0.40	0.05	0.85	0.96	0.67
≥10	0.84	0.89	0.79	0.96	0.75	0.43	0.95	0.95	0.56
≥15	0.68	0.92	0.81	0.98	0.80	0.59	0.93	0.91	0.83
≥30	0.48	0.70	0.53	0.84	0.98	0.87	1.00	0.96	0.78
Nox-T3 _{lab} versus PSG									
AHI, events/h									
≥5	0.93	1.00	0.95	1.00	0.40	0.05	0.85	0.96	1.00
≥10	0.86	0.92	0.83	0.97	0.73	0.39	0.94	0.95	0.62
≥15	0.68	0.96	0.87	1.00	0.83	0.63	0.95	0.93	0.91
≥30	0.47	0.94	0.81	0.99	0.95	0.83	0.99	0.94	0.95

* = Scoring of hypopneas on the Nox-T3 recordings required a ≥ 3% oxygen desaturation event; hypopneas on the PSG required a ≥ 3% oxygen desaturation event and/or an arousal. AHI = apnea-hypopnea index, CI = confidence interval, LB = lower bound, UB = upper bound, PPV = positive predictive value, NPV = negative predictive value.

Table S2—Number of apnea events in automatic and manual scoring of home sleep test (Nox-T3_{home}) and in-laboratory portable monitor recording (Nox-T3_{lab}).

Measure	Manual Scoring		Automatic Scoring		Difference*		
	N	Mean ± SD	N	Mean ± SD	N	Mean ± SD	P ‡
Nox-T3_{home}							
Total apneas	77	151.1 ± 165.3	77	144.4 ± 162.0	77	-6.7 ± 30.0	0.053
Obstructive apneas	77	133.8 ± 147.0	77	130.3 ± 150.2	77	-3.5 ± 29.3	0.301
Central apneas	77	5.3 ± 11.4	77	5.9 ± 14.0	77	0.6 ± 5.6	0.339
Mixed apneas	77	12.1 ± 29.0	77	8.2 ± 17.3	77	-3.9 ± 17.1	0.051
Nox-T3_{lab}							
Total apneas	76	176.2 ± 179.2	76	177.2 ± 187.3	76	1.0 ± 32.9	0.794
Obstructive apneas	76	151.7 ± 155.3	76	152.9 ± 165.5	76	1.2 ± 33.6	0.752
Central apneas	76	9.0 ± 21.5	76	11.7 ± 32.0	76	2.7 ± 11.9	0.051
Mixed apneas	76	15.6 ± 32.3	76	12.6 ± 28.2	76	-2.9 ± 8.0	0.002

* = Difference calculated as auto-scored value minus manually scored value.

‡ = P value from paired t test.

Figure S1—Bland Altman (panels A and C) and identity (panels B and D) plots of manually edited AHI on PSG compared to HSAT (Nox-T3_{home}, panels A and B) and in-laboratory portable monitor recording [Nox-T3_{lab}, panels C and D). Scoring of hypopneas on the HSAT and in-laboratory portable monitor recordings required an oxygen desaturation event of 3% or greater. Scoring of hypopneas on the PSG required an oxygen desaturation event of $\geq 3\%$ and/or an arousal.

