

**Table 1.** Baseline Demographic and Clinical Characteristics (n = 110).

Characteristic	Value
Age, mean $\pm$ SD, y	8.39 $\pm$ 2.9
Sex, No. (%)	
Male	74 (67.3)
Female	36 (32.7)
Underlying disease, No. (%)	
Allergic rhinitis <sup>a</sup>	28 (25.5)
ADHD	3 (2.7)
Asthma	1 (0.9)
Nutritional status, <sup>b</sup> No. (%)	
Normal	79 (72.4)
Overweight	7 (6.4)
Obese	16 (14.7)
Morbid obese	7 (6.4)

Abbreviations: SD, standard deviation; ADHD, attention deficit hyperactivity disorder.

<sup>a</sup>Allergic rhinitis was defined by positive skin prick test.

<sup>b</sup>Nutritional status was defined by weight for height.

**Table 2.** Comparison of Sleep Parameters between Mild OSA Group (AHI < 5 events per hour) versus Moderate and Severe OSA Group (AHI ≥ 5 events per hour)

Parameter	mild OSA group (AHI < 5)	moderate and severe OSA group (AHI ≥ 5)	<i>P</i> -value
TST, mean±SD, min	423.4±74.2	407.3±66.9	0.280
Sleep efficiency, mean±SD, %	88.8±12.0	87.2±10.7	0.254
REM latency, mean±SD, min	127.4±50.5	125.9±72.4	0.909
State N1, mean±SD, %	6.7±4.2	10.8±9.7	0.17
State N2, mean±SD, %	37.6±10.3	38.2±10.9	0.782
State N3, mean±SD, %	34.7±9.7	32.9±11.1	0.408
Stage R, mean±SD, %	18.1±5.8	18.3±6.7	0.921
AHI, median (minimum-maximum), events/hour	4.0(1.8-4.9)	9.8(5.0-81.0)	<0.001
MinO2sat, mean±SD, %	89.9±5.6	86.3±10.3	0.017
Arousal index, mean±SD, events/hour	9.5±3.7	16.1±7.5	<0.001

Abbreviations: OSA, obstructive sleep apnea; AHI, apnea-hypopnea index; TST, total sleep time; REM, rapid eye movement; MinO2sat, minimum oxygen saturation

**Table 3.** Diagnostic Capability of the Pediatric Obstructive Sleep Apnea Screening Tool for Diagnosing Moderate and Severe OSA (AHI  $\geq 5$  events per hour).

	Total score (Cut-off point = 8)	Cumulative score (Cut-off point = 8)
	Diagnostic value (95% CI)	Diagnostic value (95% CI)
Sensitivity	81.1 (70.7-88.4)	78.4 (67.7-86.2)
Specificity	52.8 (37.0-68.0)	50.0 (34.5-65.5)
PPV	77.9 (67.5-85.7)	76.3 (65.6-84.5)
NPV	57.6 (40.8-72.8)	52.9 (36.7-68.5)
Accuracy	71.8 (62.8-79.4)	69.1 (59.9-77.0)

Abbreviations: OSA, obstructive sleep apnea; AHI, apnea hypopnea index; PPV, positive predictive value; NPV, negative predictive value.

**Table 4.** Comparison of the Score of Each Question between Mild OSA Group versus Moderate and Severe OSA Group.

Questions	Mild OSA (AHI < 5)	Moderate and Severe OSA (AHI ≥ 5)	<i>P</i> -value
Median score (min-max)			
1. Do you shake your child to breathe?	0(0-2)	0(0-4)	0.002
2. Have you witnessed apnea during sleep?	0(0-4)	1(0-4)	0.003
3. Does your child struggle with breathing when asleep?	1(0-4)	1(0-4)	0.195
4. Do you have concerns about your child's breathing while asleep?	2(0-4)	2.5(0-4)	0.019
5. How loud does your child snore?	3(0-4)	3(1-4)	0.042
6. Does your child snore while asleep?	1.5(0-4)	2(0-4)	0.436

**Table 5.** Cut-off Value of the Cumulative Score and Diagnostic Performance of Pediatric Obstructive Sleep Apnea Screening Tool for Moderate and Severe OSA (AHI  $\geq$  5 events per hour).

Authors	Cumulative score cut-off value	Diagnostic Values (95% CI)			
		Sensitivity	Specificity	PPV	NPV
Kadmon et al <sup>11</sup>	1	83	64	28	96
Nguyễn et al <sup>15</sup>	2.75	82.1	80.9	63.9	91.7
		(74.4–89.8)	(73.0–88.8)	(54.3–73.5)	(86.2–97.2)
This study	1.9	78.4	50.0	76.3	52.9
		(67.7-86.2)	(34.5-65.5)	(65.6-84.5)	(36.7-68.5)