

## Introduction

Obstructive Sleep Apnea (OSA) is a very common disorder amongst the people in the United States. This breathing disorder is "characterized by episodes of complete or partial upper airway obstruction during sleep, often resulting in gas exchange abnormalities and arousals that cause disrupted sleep" [1]. It has been documented that OSA is prevalent in one to five percent of the pediatric population, with a majority of this cohort aging between two and seven [1]. The nature of this disorder has particular predominant manifestations in different age groups. In older children, including adolescents, we often see "excessive daytime sleepiness" as a hallmark sign of this untreated disorder, while in younger children, "hyperactivity, behavioral problems, and impaired academic performance" are the most common signs of untreated OSA [1]. Excessive daytime sleepiness, or EDS, has recently been seen to manifest somewhere between 40% and 50% of pediatric cases [4]. Snoring and troubles breathing during sleep are the most prevalent findings in these cases, across all age groups, encompassing 96% overall [2]. In regards to magnitude, the degree of obesity and the degree of OSA share a positive correlation; this involves both the incidence and severity [2,4].

Referral is critical in formally diagnosing OSA. Polysomnography remains the "gold standard" tool to utilize, in which certain medical professionals are credentialed to interpret [2]. Dentists are not qualified to definitively diagnose this breathing disorder. Clinically, there are common tell-tale signs to suspect OSA, including adenotonsillar hypertrophy, Mallampati deviation classes III and IV, and class II malocclusion [3]. These patients with underlying OSA also commonly have dolichofacial phenotypes and retrognathic mandibles [3]. It is crucial to screen, early detect, and optimally treat these patients in order to improve quality of life, in which OSA often hinders [4].

# Objectives

- To investigate the prevalence of Obstructive Sleep Apnea in the pediatric dental population.
- To assess the most common signs and symptoms in patients that are diagnosed with Obstructive Sleep Apnea.
- To assess if the percentage of pediatric dentists screening for Obstructive Sleep Apnea have an effect on a difference/equal prevalence in the two target populations studied.



	PCP (10)	
		Sleep
		Neuro(2
		Pneumo
	Ped (18)	(2)