

Presurgical Cone-beam Computed Tomography Assessment of Maxillary Sinus Septa for Posterior Maxillary Implant Placement

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ABSTRACT

Aims: The present study was performed to determine the incidence, location, dimension, and type of maxillary sinus septa in the posterior maxilla using cone-beam computed tomography (CBCT) imaging for implant placement.

Materials and methods: The inclusion and exclusion criteria resulted in a total of 100 participants. The Hyperion X9 CBCT scanner was used to do the CBCT, and the pictures were re-constructed using NNT Image reconstruction software. The IYY5.0.0 and NNT viewer were used to evaluate the incidence, location, dimension, and type of maxillary sinus septa in the dentulous and edentulous posterior maxilla. Complete septa were further classified into septa with or without compartmentalization of the maxillary sinus into two separate cavities based on CBCT cross-sectional images. A measuring tool in the software Statistical Package for the Social Sciences (SPSS) was used to determine the average height and width of all septa.

Results: Incidence of septa was comparatively higher in edentulous compared to dentulous and the most common type of septa found is incomplete septa. The mean height of septa among dentulous and edentulous individuals was 3.18 ± 3.39 and 3.63 ± 3.76 mm, respectively. The mean width of septa among dentulous and edentulous were 1.81 ± 0.49 and 2.27 ± 1.11 mm. A significant difference was reported for the anteroposterior width of the maxillary sinus ($p < 0.05$); dentulous having 32.03 ± 2.83 mm and edentulous having 31.11 ± 2.43 mm diameter.

Conclusion: Within the study's constraints, it was discovered that when the septa are in near proximity to the sinus floor, it is recommended to eliminate the septa to avoid rupture of the Schneiderian membrane and get ahead with the augmentation. Prospective research is required to back up the conclusions stated.

Clinical significance: Septa, or bony convolutions from the sinus floor, can be found during sinus augmentation treatments and implant planning in the atrophic posterior maxilla. Intraoperative difficulties are frequently caused by a lack of factual understanding about the maxillary sinus prior to executing a sinus lift treatment. Thus there is a need for a better understanding of presurgical evaluation of the maxillary sinuses.

Keywords: Cone-beam computed tomography, Maxillary sinus, Posterior maxilla, Sinus augmentation, Sinus septa.

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INTRODUCTION

Implant-supported prosthetic rehabilitation of edentulous areas has become one of the widely accepted treatment options in dentistry. Placing implants in atrophic sites is primarily determined by available bone thickness, length, and quality. In case, available bone is insufficient for placing a dental implant, several bone augmentation procedures were performed depending on the site. Similarly, a maxillary sinus augmentation can be used to rebuild an atrophic posterior maxilla with dental implants. Recently, sinus lift therapies employing the lateral window approach are thought to be a secure and reliable form of sinus augmentation. The mean thickness of the Schneiderian membrane ranges between 2.16 and 3.11 mm.¹ One of the chief intraoperative complications is Schneiderian membrane perforation, reported in 11–50% of sinus lift operations.² The presence of maxillary sinus septa can elevate the chances of sinus membrane perforation.

"Underwood" was the first to notice the presence of sinus septa in 1910. He divided the septa into three pieces that arose from the floor of the sinus between the sites of two neighboring teeth. Depending on their placement, he categorized them as anterior (between the second premolar and the first molar), intermediate (between the first and second molar), and posterior

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distal to the third molar septa.³ The septum can be either primary or secondary. Primary when it originates during the development of maxillary bone and tooth-occlusion whereas, secondary septa result from pneumatization of the maxillary sinus following tooth loss and resorption of alveolar process. As a result, a natural septum in the maxillary sinus is regarded as both an anatomical variant

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