

Innovative Technique for Maxillary Sinus Augmentation: A Step-by-Step Approach Using 3D-Printed Models

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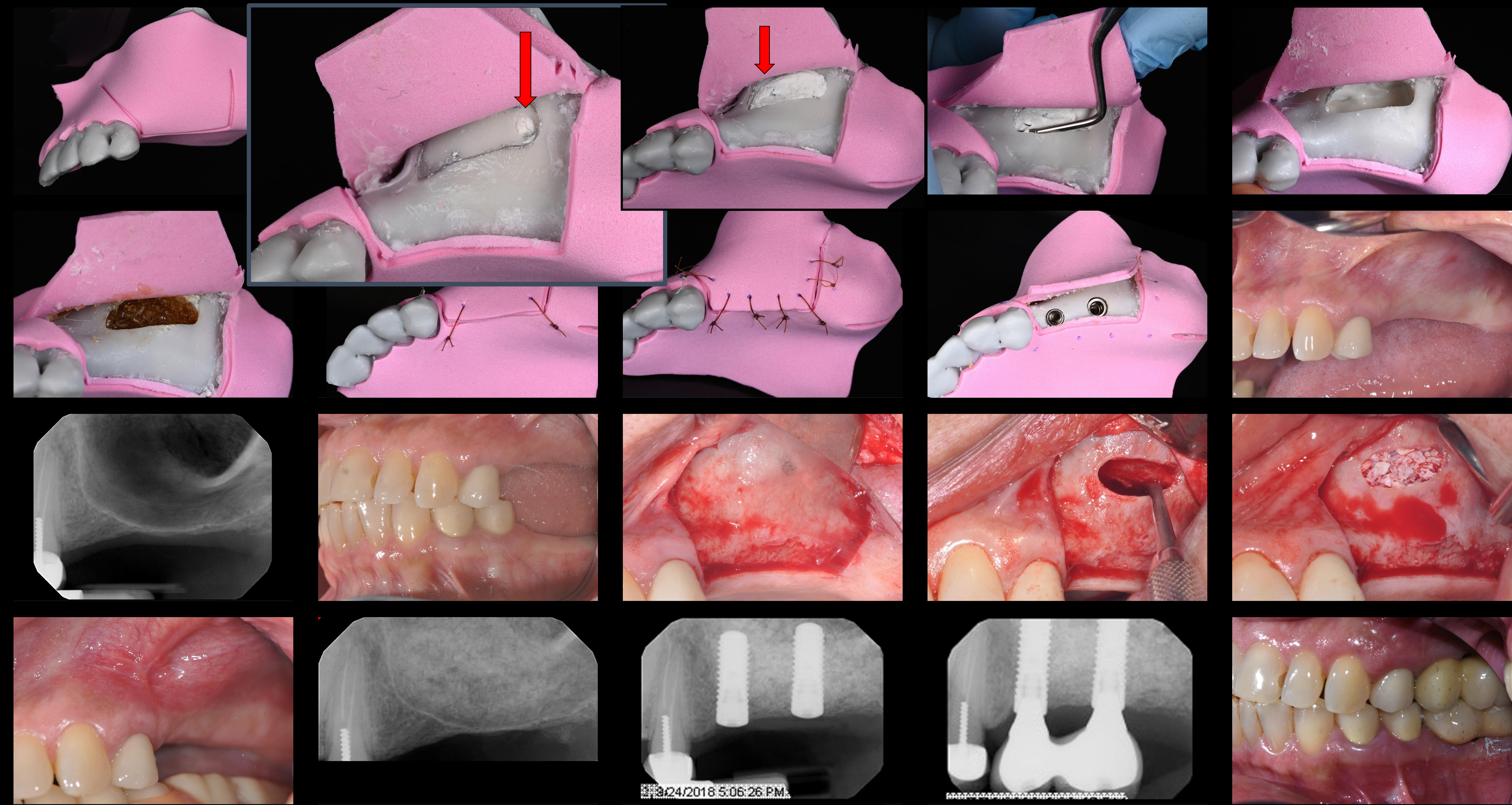
...3D-printed CBCT models have revolutionized dental education by enabling precise surgical simulation. This report demonstrates lateral window sinus augmentation using both 3D models and live surgery, highlighting its educational impact....

The lateral window maxillary sinus augmentation technique is one of the most well-documented ridge augmentation methods in implant dentistry. However, this advanced surgical procedure is not commonly taught at the undergraduate level and is typically reserved for specialized postgraduate training. Many clinicians seek to learn this technique through advanced education programs, hands-on courses, or postgraduate training. The advent of 3D-printed models derived from CBCT scans has revolutionized dental education by providing a realistic and tactile

representation of the patient's anatomy, allowing for simulation of surgical procedures prior to clinical application. This report demonstrates a step-by-step approach to the lateral window maxillary sinus augmentation using both patient-specific 3D-printed models and live patient surgery, highlighting the benefits of this innovative educational technique.

Key Words: DICOM data, 3D printed model, maxillary sinus augmentation, hands-on, case report

SEQUENCE OF PROCEDURE



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