



EVALUATION OF TOMOGRAPHIC IMAGES OF DIFFERENT MATERIALS USED IN PROCEDURES OF MAXILLARY SINUS LIFT

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MATERIALS

EDENTULOUS MAXILLA MANNEQUIN

The entire amount of bone graft materials were put into 1 ml of physiological solution directly into the dummy.

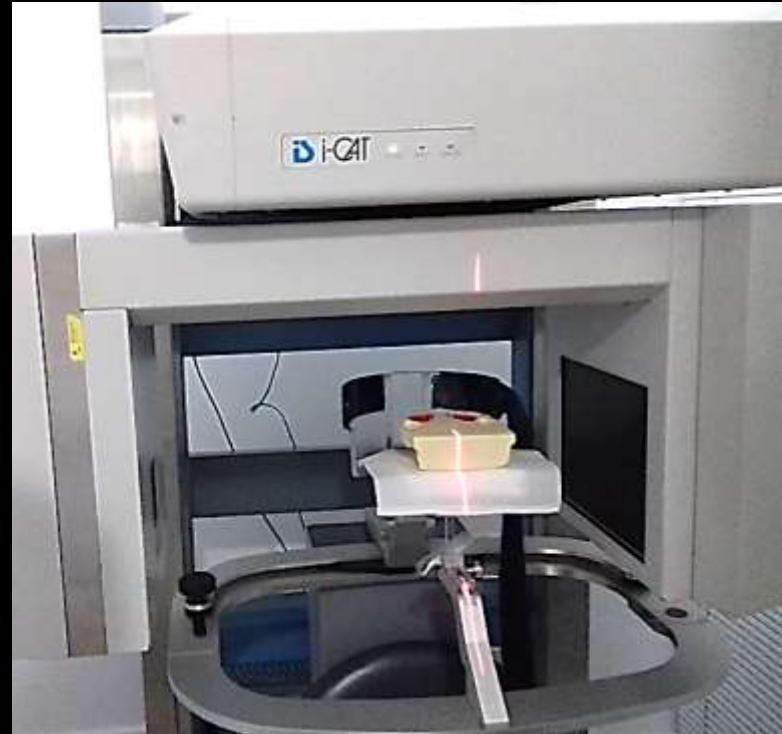


BIOMATERIALS
WITHOUT AND
WITH
HYDRATION

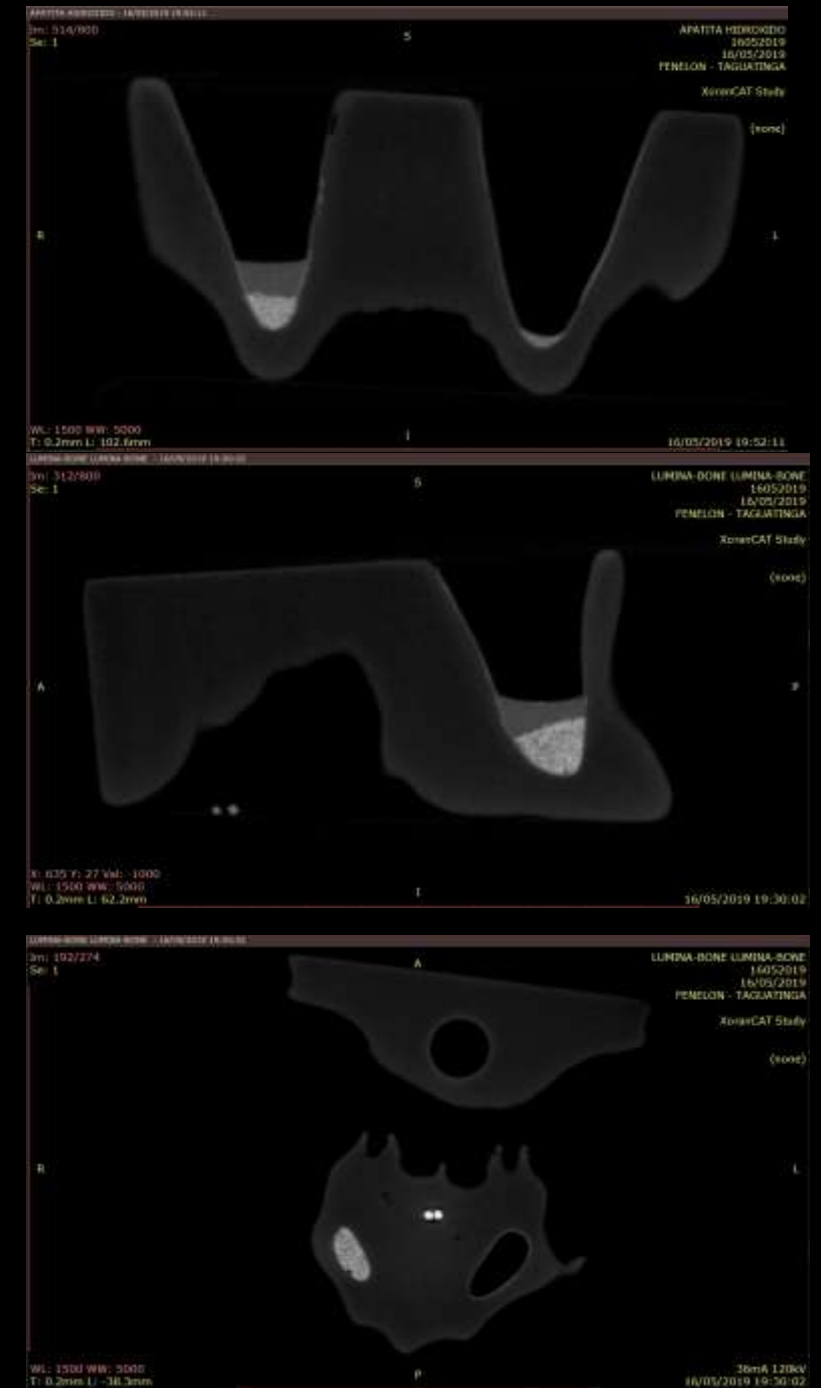


METHODS

Four CT scans were performed, one of the empty sinus and the other with each biomaterial, with volumetric dimensions 6x17 cm and interpreted according to the attenuation values, where they are measured in Hounsfield units to verify the density of each material.



I-CAT TOMOGRAPHY (KAVO) TO OBTAIN VOLUMETRIC COMPUTED TOMOGRAPHY



RESULTS



Hounsfield scale interpretation, with the main value of each biomaterial, represented in gray, and its margin of error shown in blue and orange.

CONCLUSION

The results obtained, given the methodology used, allowed us to conclude this: the use of computed tomography in order to compare such graft materials was a strong resource, once CT reveals precise details of the behavior of biomaterials and anatomical structures in a three-dimensional way, being a reliable indicator of possible divergences between each one.
