

# The prevalence of concha bullosa and nasal septal deviation and their relationship to maxillary sinusitis by volumetric tomography

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# The prevalence of concha bullosa and nasal septal deviation and their relationship to maxillary sinusitis by volumetric tomography

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## Abstract:

The objective of this study was to determine the prevalence of concha bullosa and nasal septal deviation and their potential relationships to maxillary sinusitis. 883 CT scans taken at Creighton University School of Dentistry from 2005 to 2008 were retrospectively reviewed for the presence of concha bullosa, nasal septal deviation, and maxillary sinusitis. 67.5% of patients exhibited pneumatization of at least one concha, 19.4% of patients had a deviated septum, and 50.0% had mucosal thickening consistent with maxillary sinusitis. 49.3% of patients who had concha bullosa also had evidence of maxillary sinusitis. Only 19.5% of patients with concha bullosa also had nasal septal deviation, whereas 19.7% of patients

with sinusitis also presented with nasal septal deviation. Although concha bullosa is a common occurrence in the nasal cavity, there did not appear to be a statistically significant relationship between the presence of concha bullosa or nasal septal deviation and maxillary sinusitis.

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