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## Enucleation of the incisive canal for bone augmentation & dental implants

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**Statement of the Problem:** One of the anatomical obstacles for dental implants placement in the upper jaw is the nasopalatine canal. The neurovascular contents include nasopalatine nerve, terminal branch of nasopalatine artery and anastomoses with greater palatine nerve and artery. This gives innervation and vascularization for the upper anterior region from the right canine to the left canine. Unfortunately, after extraction of the anterior maxillary teeth, high resorption rate happens on the area. In addition, presence of the incisive canal jeopardizes the ideal position of the implants placement. As a result, enucleation of the canal content and then replaced by bone graft or substitute is necessary to improve the bone bed. Neurological impairment of the soft tissue such as paresthesia or dysesthesia may exist after enucleation of the canal. In order to prevent any change in sensation and having bone augmentation at the same time, partial removal of the canal content (coronal 2/3 of its contents) and placement of allograft bone is presented in this case report. Re-entry surgery after six month of the surgical site showed an adequate bone. An implant was placed then a prosthetic restoration was placed. After one year of follow up the implant was successful and no sensory disturbances were shown. A comparison was presented before and after the treatment of the case. Clinical photos and CT figures were included.

### Recent Publications

1. Waasdorp J (2016) Enucleation of the incisive canal for implant placement: a comprehensive literature review and case report. *Journal of oral implantology*. 42:180-183.
2. Panjnoush M, Norouzi H, Kheirandish Y, Shamshiri AR, Mofidi N (2016) Evaluation of morphology and anatomical measurement of nasopalatine canal using cone beam computed tomography. *Journal of Dentistry*. 13:287-294.
3. Peñarrocha D, Candel E, Guirado JL, Canullo L, Peñarrocha M (2014) Implants placed in the nasopalatine canal to rehabilitate severely atrophic maxillae: a retrospective study with long follow up. *Journal of oral implantology* 40:699-706.

### Biography

Samar Jambi is a certified consultant in prosthodontics and a Board Certified consultant of implant dentistry practicing at the North Jeddah Centre of Dental Specialties, Jeddah, Saudi Arabia. She earned her Bachelor degree in Dentistry from King Abdulaziz University, Saudi Arabia in 1995, Master degree in Restorative dentistry from Leeds University, UK in 2002, PhD degree in Fixed Prosthodontics from Leeds University, UK in 2008. She did her Fellowship in Implant Dentistry King Abdulaziz University, Saudi Arabia in 2015. Samar Jambi is a member of the Saudi Dental Society as well.

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