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Simple and atraumatic technique for the advancement of the genioglossus muscle for treatment of obstructive sleep apnea

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Obstructive sleep apnea (OSA) is the most common type of sleep apnea and a result of the upper airway obstruction. Untreated OSAS can cause various problems such as hypertension, diabetes, stroke, cardiac disease, daytime sleepiness. It has been demonstrated that genioglossus advancement (GA) is an effective procedure for the improvement of the upper airway in some of OSA patients. The various types of osteotomy have been designed for the advancement of genioglossus muscle and genial tubercle complex. Inferior saggital osteotomy (ISO), rectangular osteotomy and the circular osteotomy are commonly used for the surgical treatment of OSA. In this paper, we describe a new method for GA that uses specially designed two drills and "c-shaped" plate. This technique is more simple, atraumatic and cost effective comparing to traditional GA techniques. It helps surgeons to conduct GA surgeries in an efficient way and shorten operation times. Also it can minimalize the patient's damage during the surgery. This minimal invasive technique is expected to reduce postoperative complications like post-op bleeding, pain and swelling.

Biography

Deok-Won Lee is currently working as an Associate Professor in the Department of Oral and Maxillofacial Surgery at Kyung Hee University Dental Hospital at Gangdong (Kyung Hee Neo Medical Center).

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