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No drug induced sleep endoscopy, no somnoplasty: Literature review and our personal experience in the diagnosis and management of OSAS

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The aim of this study was to identify patterns of airway collapse and sites of obstruction during drug induced sleep endoscopy (DISE) as predictors of surgical failure following multilevel airway surgery or just somnoplasty for patients with obstructive sleep apnea syndrome (OSAS). A systematic review was performed of studies using DISE to identify sites and patterns of obstruction in patients with OSAS. Medical records of all adult patients undergoing diagnostic DISE at our Centre for Diagnosis and Treatment of Respiratory Sleep Disorders as part of their surgical evaluation were reviewed. For each patient, we recorded obstruction sites, obstruction patterns and the effects of the mandibular pull-up manoeuvre on both obstruction and snoring. We compared the results of clinical and diagnostic evaluation with those of sleep endoscopy. According to other authors, considering a complete obstruction of 100%, we found that palatal obstruction was the most frequently observed site of obstruction, followed by tongue base obstruction, laryngeal obstruction and hypopharyngeal obstruction. DISE is mandatory in the diagnostic work-up of OSA and is a valid addition when surgery is considered. DISE is a dynamic, safe and easy-to-perform technique that visualizes the anatomical sites of snoring or apneas and guides the design of a tailor-made treatment plan in individual cases improving the qualitative and quantitative results of treatment. Understanding the sites of collapse is mandatory for surgical treatment decision-making in obstructive sleep-apnea-hypopnea syndrome patients. Moreover, it could help prevent unrealistic expectations regarding the available treatment for each patient.

Biography

Alessandro Bucci is a Reserve Medical Officer of Italian Navy. He has Fellowship experienced in Otolaryngology at University Hospital, Cadiz, Spain. He was a Consultant in Otolaryngology. He has Fellowship in Facial Plastic Surgery (AMC) and OSAS at Sint Lucas Andreas Hospital, Amsterdam, Netherlands and in Facial Plastic Surgery at C. Garcia University Hospital, Cuba. He is a dedicated ENT Specialist Surgeon with 14 years of experience providing the highest standard of treatment. His research focused on rhinology/rhinoallergology, OSAS and dysphagia.

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