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Original Research Article

Determining the Depth of Anesthesia and the Transparency of the Operation Field in Ear, Nose and Sinus Surgeries in Tabriz Hospitals

Shabnam Noei Alamdary¹, Shahram Ghasembaglou² *

¹ Assistant Professor of Otorhinolaryngology, Head and Neck Surgery. Department of Otorhinolaryngology, School of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran

² Assistant Professor of Otorhinolaryngology, Head and Neck Surgery, Tuberculosis and Lung Disease Research Center, Department of Otorhinolaryngology, School of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran

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ABSTRACT

Depth monitoring of anesthesia is one of the lesser-known components of patient monitoring. In the field of limited field surgery and depth anesthesia control to evaluate the transparency of the field, no study has been done so far. Accordingly, in this study, the relationship between anesthesia depth and field transparency in limited field surgeries (nose, ears and sinuses) was considered. This is a cross-sectional descriptive study that was conducted in 2018 with the participation of 91 patients who were candidates for ENT surgery at Imam Reza Hospital in Tabriz. Depth of anesthesia in these patients with BSI criteria by DK-5000 Odense C device made by Danmeter-Goalwick Co. Denmark and the results were reported. In limited field surgeries such as sinus endoscopy, rhinoplasty, tympanoplasty and mastoectomy, in order to create a transparent field by monitoring the depth of anesthesia using the BSI criterion is a suitable method for determining the depth of anesthesia in ENT surgeries that have been operated with the help of anesthetic gases (isoflurane, etc.).

Keywords: BSI, Depth of Anesthesia, Transparency.