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The Impact of Surgical Procedures During Septorhinoplasty on the Intraoperative Pain Response**Moath zuhour***Necmettin Erbakan university*

During septorhinoplasty, many different surgical procedures are used to bring the nose to the desired shape and to solve the breathing complaints. As a matter of course, intraoperative pain response occurs due to these procedures.

Objectives

This study aims to evaluate the intraoperative pain formed during septorhinoplasty surgery with numerical values, and to determine which stage of surgery is more painful.

Methods

Between April 2019 and March 2020, a total of 30 female patients who were planned to undergo septorhinoplasty were included in this prospective study. Standard anesthesia and analgesia were applied to all patients. During surgery, State Entropy (SE) measure was used to evaluate the depth of anesthesia, and Surgical Pleth Index (SPI) was used to evaluate the response of the central nervous system to pain "Nociception".

Results

The age of the patients ranged from 18 to 42 years old (average 25.3 ± 6.1 years). The average value of State Entropy (SE) recorded during the surgery for all patients was found to be 45.43 ± 5.37 . The mean beginning SPI value recorded from all of the patients was found to be 23.4 ± 8.84 , when compared with the beginning value; the values recorded during periosteal dissection, lateral osteotomy and lower turbinate lateralization were statistically significantly higher ($P < 0.005$).

Conclusion

Although sufficient depth of anesthesia and standard protocol of analgesia were applied, pain response was found to be significantly higher at some procedures during septorhinoplasty. We think that increasing the depth of anesthesia during these procedures will increase the comfort of this operation by inhibiting pain response.

Biography

Moath zuhour has been graduated from the faculty of medicine in 2017 and now he is a resident at plastic, reconstructive and aesthetic surgery department at necmettin erbakan university. He has three published articles and another three studies in publishing process.

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