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"The comparison between effects of two general anesthesia techniques; Intermittent apneic technique and continuous controlled ventilation in upper airway Laser therapy "

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Abstract:

Introduction: Laser beam due to finest of incision and reduction of postoperative complication, facilitates airway surgery, but at the same time it increases the danger of firing and the airway management and protection becomes difficult during anesthesia. In this study, two general anesthesia methods; (Intermittent Apneic Technique And Continuous Controlled Ventilation With Enveloped Endotracheal Tube) have been compared with each other mater. Materials and methods: two groups, each consist of 25 patients 10 to 60 years old, and ASA I-II class and below 100kg weight who have been candidate for laser therapy, were given two mentioned methods of anesthesia. All patients were suffering from subglottic stenosis, vocal cord nodules, papillomatosis and oropharyngeal obstruction. Induction and maintenance of anesthesia, and monitoring during surgery (EGG, PETCO₂, SaPo₂, BP, PR) in both groups were the same. Results: Homodynamic stability in the both groups were the same and there was no hypoxia and dysrhythmia. In apneic technique group, most of the surgeries needed 2-3 time of apnea, and each apnea duration was 2-4 minutes, without any hypercaphic (Peteco 2>47 mmHg) and hypoxic (Spo₂<90 percent) state and duration of laser surgery was about 9-10 minutes. More satisfaction was gained with apneic technique because of having a better surgery filed. All the patients had no recall at the end of anesthesia and patienn's expenses were much lower with no danger of firing. Conclusion: It has been concluded that intermittent apneic technique in upper airway laser therapy is a better technique of anesthesia.

Keywords:

[Intermittent apneic technique](#) , [Laser therapy](#) , [Continuous controlled ventilation](#) , [PeteCo2](#) , [SpaO2](#)

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