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Evaluation of high flow nasal cannula (HFNC) oxygen therapy as a sole ventilation technique in patient undergoing elective upper air way surgery

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HFNC is a recently described technique proven to provide an adequate oxygenation & ventilation in patient undergoing various upper air way surgeries without the need of the endotracheal intubation or jet ventilation. The objective of this research is to evaluate the adequacy of HFNC technique as a sole method of providing adequate Oxygenation & ventilation for patients undergoing upper air way endoscopy (Micro laryngoscope, esophagoscope, Panendoscope) which are minor procedures need short duration of GA. Because the anesthetist & the surgeon sharing the same space there is high risk of interruption of ventilation, oxygenation, loss of airway in addition to inherent complication of the surgery. HFNC has the advantage of less interference during the procedure and gives large space for surgical manipulation and lastly decreases the intubation complication. This clinical trial will give additional impact of this treatment on ventilation (CO_2 elimination) and oxygenation of the patient during prolongs apnea. The methodology involved a prospective, randomized interventional study using of computer program for randomization. The sample size for this study is 60 (30 in each group). Study is going on right now at (ACC) Ambulatory Care Center at Doha, Qatar and it will be completed within a year. The following criteria were taken into consideration: Inclusion criteria: adult population - both male and female - ASA 1 and 2 (American Society of Anesthesiologist) – for upper airway procedures. Exclusion criteria: age <18 years - BMI >35; for pregnant patient - procedure anticipation >45 min - total airway obstruction; for patient with sever nasal obstruction- parameters: age, gender, height, weight, BMI, HR, Bp, SPO_2, $TcPO_2$, $ETCO_2$, $TcPCO_2$ and BIS.

Biography

Muayed M. Radi Alkhafaji received his Medical Degree from University of Al- Mustansiriyah Medical School, (1986) and Board Certificate in ORL-HNS from Baghdad University, Iraq (1996) respectively. He is an ENT-Otolaryngologist in Doha, Qatar and is affiliated with multiple hospitals in the area, including Hamad General Hospital, Ambulatory Care Center, Alkhor Hospital and Weill Cornell Medical School-Qatar.

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