

Subcutaneous dissociative conscious sedation (sdcS) an alternative to general anesthesia for rigid bronchoscopy: A novel approach

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Rigid bronchoscopy for treatment of tracheal stenosis, as a noninvasive therapeutic option has increased significantly. Anesthesia for tracheal dilatation is challenging because the airway needs to be shared with the interventionist. Communication and coordination between anesthesiologist and interventionist is crucial. Anesthesia could be induced by inhalation anesthetics or intravenous agents. Jet ventilation is another modality adopted by many centers. Maintaining spontaneous ventilation is of prominent importance to increase the security of the airway. In this study, 25 patients with known tracheal stenosis, scheduled for tracheal dilatation, underwent "Subcutaneous Dissociative Conscious Sedation". sDCS was induced by subcutaneous ketamine 0.5 mg/kg, intravenous morphine sulfate 0.15 mg/kg (gradually in 5 minutes) and intravenous fentanyl 1-3ug/kg, titrated until the patient fell asleep. The tongue and pharynx were anesthetized with lidocaine spray (10%). About 10 minutes after the subcutaneous injection of ketamine, rigid bronchoscopy was started. Extra doses of fentanyl 50 ug, were administered if the patient wasn't cooperative enough. Patients were evaluated for hemodynamic stability (heart rate and blood pressure), oxygen saturation (Spo₂), patient cooperation (obedient to open the mouth for insertion of the bronchoscope), patient comfort (remaining moveless), hallucination, nystagmus and salivation. Rigid bronchoscopy and tracheal dilatation performed successfully in all patients. There were no significant hemodynamic changes, no oxygen desaturation and no complication during the procedure.

In conclusion Subcutaneous Dissociative Conscious Sedation (sDCS) is an acceptable and safe method of anesthesia for rigid bronchoscopy and it can be suggested as a noninvasive substitute for general anesthesia in rigid bronchoscopy.

Biography

Mihan J. Javid has completed her M.D at the age of 24 from Tabriz University of Medical Sciences and post-doctoral studies from Tabriz University of Medical Sciences. She is director of Intensive Care Unit. She has more than 20 publications and more than 6 innovations in medicine. She won the award of "The Best Researcher" in Iranian festival of the Best woman researcher in 2004.

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