Objectives:

1. Brief explanation of the rationale behind using this method of sedation in Al Zahra Hospital in Dubai (AZHD).
2. The excellent outcome of four years of experience of this method of sedation in AZHD.
3. Explanation of the proper training and how to safely implement this method of sedation in any JCI accredited institute.
4. Discussion and evidence based comparison of Propofol TCI sedation by non Anaesthesiologists and after commonly used methods of sedation.

Conclusion:

1. We recommend that the type of endoscopic procedure and the patient’s American Society of Anesthesiologists (ASA) physical status, age, body mass index, Mallampati’s classification, and risk factors for obstructive sleep apnea (OSA) be assessed before each procedure with non-anesthesiologist administration of propofol (NAAP) (strong recommendation, moderate quality evidence).
2. We suggest primary involvement of an anesthesiologist in patients of ASA class ≥3, with a Mallampati’s class ≥3 or other conditions that put them at risk of airway obstruction (e.g. pharyngolaryngeal tumors), in patients who chronically receive significant amounts of narcotic analgesics, or in cases where a long-lasting procedure is anticipated (weak recommendation, low quality evidence).
3. We suggest consideration of capnographic monitoring during NAAP in
specific situations including high risk patients, intended deep sedation, and long procedures (weak recommendation, high quality evidence). 4 We suggest propofol monotherapy except in particular situations (weak recommendation, high quality evidence). 5 We recommend administering propofol through intermittent bolus infusion or perfusor systems, including target-controlled infusion (TCI), and consideration of patient-controlled sedation (PCS) in particular situations (strong recommendation, high quality evidence). 6 We suggest that patients listen to self-selected music during upper and lower GI endoscopy procedures (weak recommendation, moderate quality evidence). 7 We do not suggest using pharyngeal anesthesia during propofol sedation for upper GI endoscopy (weak recommendation, moderate quality evidence). 8 We suggest using the post-anesthetic discharge scoring system (PADSS) to determine when patient recovery is sufficient to allow discharge (weak recommendation, low quality evidence). 9 Minimum discharge criteria should be fulfilled before discharging a patient. We recommend that patients who have received combined regimens, and all patients of ASA class > 2, should upon discharge be accompanied by a responsible person and refrain for 24 hours from driving, drinking alcohol, operating heavy machinery, or engaging in legally binding decisions. Advice should be provided verbally and in written form to the patient, including a 24-hour contact phone number (strong recommendation, low quality evidence). 10 For patients of ASA classes 1–2 who have received low dose propofol monotherapy, a 6-hour limit is suggested (weak recommendation.

Propofol TCI sedation by non-anaesthesiologists is a very safe method of GIT Endoscopy Sedation. It shows evident superiority and much better outcome in comparison to after commonly used methods of sedation with marked cost reduction

References

Dietrich CG, Kottmann T, Diedrich A et al. Sedation-associated complications in endoscopy are not reduced significantly by implementation of the German S-3-guideline and occur in a severe manner only in patients with ASA class III and higher. Scand J Gastroenterol 2013; 48: 1082–1087
Boese ML, Ransom RK, Roadfuss RJ et al. Utility of the Berlin Questionnaire to screen for obstructive sleep apnea among patients receiving intravenous sedation for colonoscopy. AANA J 2014; 82: 38–45
Chung F, Yegneswaran B, Liao P et al. STOP
experience. World J Gastrointest Endosc 2013; 5: 160–164
101 Cotton PB. Income and outcome metrics for the objective evaluation of ERCP and alternative methods. Gastrointest Endosc 2002; 56: S283–S290
113 Evans LT, Saberi S, Kim HM et al. Pharyngeal anesthesia during sedated EGDs: is “the spray” beneficial? A meta-analysis and systematic review Gastrointest Endosc 2006; 63: 761–766
114 Fukada T, Ozaki M. Microbial growth in propofol formulations with disodium edetate and the influence of venous access...