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Name of Journal: World Journal of Gastrointestinal Endoscopy

Manuscript Type: Observational Study

Manuscript Number: 56113

Predictor of respiratory disturbances during gastric endoscopic submucosal dissection under deep sedation

Aikawa M *et al.* Respiratory disturbances during ESD under sedation

ABSTRACT

BACKGROUND: Sedation is commonly performed for the endoscopic submucosal dissection (ESD) of early gastric cancer. Severe hypoxemia occasionally occurs due to the respiratory depression during sedation.

AIM: The purpose of this study was to establish predictive models for respiratory depression during sedation for ESD.

METHODS: Thirty-five adult patients undergoing sedation using propofol and pentazocine for gastric ESDs participated in this prospective observational study. Preoperatively, a portable sleep monitor and STOP questionnaires, which are the established screening tools for sleep apnea syndrome, were utilized. Respiration during sedation was assessed by a standard polysomnography technique (PSG) including the pulse oximeter, nasal pressure sensor, nasal thermistor sensor, and chest and abdominal respiratory motion sensors. The apnea hypopnea index (AHI)



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Nov 16, 2018 · Core tip: Our aim was to demonstrate **respiratory disturbances using polysomnography (PSG) during propofol sedation for gastric endoscopic submucosal dissection**. Among the ten patients, 207 **respiratory disturbances** were identified by PSG.

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Author: Ryuma Urahama, Masaya Uesato, Mizu...

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Nov 16, 2018 · 1. World J Gastrointest Endosc. 2018 Nov 16;10(11):340-347. doi: 10.4253/wjge.v10.i11.340. Polysomnographic assessment **of respiratory disturbance during deep propofol sedation for endoscopic submucosal dissection of gastric tumors**.

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In this study, univariate analysis revealed that female gender, low height and weight, and low RR before treatment were significantly associated with **respiratory suppression**. Multivariate analysis revealed that RR before treatment was the only significant independent **predictor of respiratory suppression during ESD under deep sedation**.

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Ryuma Urahama, Masaya Uesato, Mizuho Aikawa, Yukiko Yamaguchi, Koichi Hayano, Tomoaki Matsumura, Makoto Arai, Reiko Kunii, Shiroh Isono, Hisahiro Matsubara, Polysomnographic assessment **of respiratory disturbance during deep propofol sedation for endoscopic submucosal dissection of**

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