

## Complication rate and hemodynamic changes after unsedated esophagogastroduodenoscopy in elderly patients

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**Introduction and Objectives:** Unsedated esophagogastroduodenoscopy (UEGD) procedure is safely performed in elderly patients. However, it can induce hemodynamic changes and complications. The aim of the study was to compare and evaluate the complication rate and alteration of blood pressure and heart rate during and immediately after UEGD procedure between elderly patients and younger patients.

**Methods:** 1,918 patients underwent UEGD procedures in two years. All patients who had American Society of Anesthesiologists (ASA) physical status I-II and no history of hypertension, diabetes and cardiovascular diseases were categorized into the two groups. The patients aged <65 years were in group A, and the patients aged ≥65 years were in group B. The primary outcome variable of the study was the complication rate. Secondary outcome variables were the alteration of blood pressure and heart rate during and immediately after the procedure.

**Results:** After matching gender, weight, ASA physical status and indications of procedure, there were 342 patients in group A and 195 patients in group B. All UEGD procedures were completely successful. There were no significant differences in gender, weight, ASA physical status, indication of procedure, complication rate and the hemodynamic parameters including blood pressure, heart rate and oxygen saturation between the two groups. All complications were mild degree, transient and did not require medications.

**Conclusion:** UEGD for elderly patients was relatively safe and effective. Complication rate and alteration of blood pressure and heart rate during and immediately after UEGD procedure in elderly patients did not higher than in younger patients.

### Biography

Somchai Amornyotin has completed his FRCAT from the Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand. He is the anesthesiologist staff of Siriraj GI Endoscopy Center and the Department of Anesthesiology, Faculty of Medicine Siriraj Hospital. He has published more than 50 papers in reputed journals and has been serving as an editorial board member and reviewer of several international journals such as World Journal of Gastrointestinal Endoscopy, Gastroenterology Insights, BMC Anesthesiology, Digestive Disease and Science, Journal of Gastroenterology and Hepatology Research, World Journal Gastroenterology, Clinical and Experimental Gastroenterology, European Journal of Gastroenterology and Hepatology etc.

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