

INTRODUCTION

- Propofol is a commonly used anesthetic in endoscopic procedures.
- It can prolong the AV conduction through vagal stimulation leading to AV block.
- We report a unique case of a healthy female undergoing a routine screening colonoscopy who developed a Mobitz type I block, in which propofol was the sole agent used for sedation.

CASE PRESENTION

A 74-year-old-female presented for a routine colonoscopy which was performed under monitored supervised propofol sedation.

During the final phase of the procedure, which was performed with minimal air insufflation, she was observed to have a transient 2:1 heart block mixed with periods of 3:2 heart block. She reported no cardiac or neurological symptoms.

Colonoscopy-induced transient Mobitz type I block

Department of Gastroenterology & Hepatology Milliam Beaumont Hospital, Royal Oak, MI



Inayat Gill, DO; Samiksha Pandey, MBBS; Atulkumar Patel, FACP, FACG

to heart blocks.

Liu Q, Kong AL, Chen R, Qian C, Liu SW, Sun BG, Wang LX, Song LS, Hong J. Propofol and arrythmias: two sides of the coin. Acta Phamacologica Sinica. 2011;32:817-823.

Noh JI, Lee JH, Woo SY, Kim YK, Cho SH, Kim SH, Chae WS. Complete atrioventricular nodal block after propofol administration in an elderly patient undergoing total knee replacement arthroplasty - A case report. Korean J Anesthesiol. 2013;64(4):363-6.

Olson N, Lim MJ, Ferreira SW, Mehdirad AA. Potential for Infra-Nodal Heart Block and Cardiogenic Shock With Propofol Administration. Cardiol Res. 2013;4(1):35-40.

Beaumont

DISCUSSION

Propofol can prolong the AV conduction system leading

The suggested mechanism is hypervagal stimulation causing slow sinus rate, prolongation of stimulus to bundle of His interval, lengthening of Wenckebach cycle and effective refractory period.

While air distention in stomach or colon can result in a vasovagal reaction and bradycardia, cases of normal block in this situation are extremely rare.

REFERENCES