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Cited by: 6 Author: Alka Bhardwaj, Sudhindra Dharmavaram, ...  
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Description of the intervention. Neuromuscular-blocking agents are administered during general anaesthesia to block the transmission of signals between motor nerve endings and skeletal muscles, reducing their resting tone, and preventing the affected muscles from contracting (Appiah-Ankam 2004). Neuromuscular-blocking agents are classified by mechanism of action.

Author: Moira H Brintjes, Kim I Albers, Kurin... Publish Year: 2018

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Cited by: 2

Author: Rakesh Garg, Jyotsna Punj, Ravindra Pand...

Publish Year: 2011

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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 56725

Manuscript Type: CASE REPORT

**Donepezil-related inadequate neuromuscular blockade during laparoscopic surgery:  
A case report**

Donepezil-related inadequate neuromuscular blockade

**Abstract**

**BACKGROUND**

Donepezil is an acetylcholinesterase inhibitor used to improve cognition and delay disease progression in dementia patients by increasing acetylcholine levels. This drug may potentially interact with neuromuscular blocking agents (NMBAs) that act on muscular acetylcholine receptors during general anesthesia. Herein, we present a case of inadequate neuromuscular blockade with rocuronium, a nondepolarizing NMBA, in a dementia patient who had taken donepezil.

**CASE SUMMARY**

A 71-year-old man was scheduled for laparoscopic gastrectomy. He had been taking donepezil 5 mg for dementia. General anesthesia was induced with propofol and remifentanyl. The depth of neuromuscular blockade was monitored by train-of-four (TOF) stimulation. After the administration of rocuronium, the TOF ratio decreased at

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**Cited by:** 2 **Author:** Rakesh Garg, Jyotsna Punj, Ravindra Pa...

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**Author:** Meira H Bunting, Kim J Akers, Keri **Publish Year:** 2018