

#### CASE REPORT

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## Severe cardiovascular collapse with fatal outcome following intramucular ranitidine hydrochloride

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#### Introduction

H<sub>2</sub> receptor antagonists are routinely used as prophylaxis for acid aspiration <sup>1</sup>. We report an obese 85 kg woman scheduled for abdominal hysterectomy, who received a preoperative intramuscular dose of 50 mg ranitidine which was followed by severe cardiovascular collapse and death.

### Case report

A 51 year old woman weighing 85 kg with a height of 154 cm was scheduled for elective abdominal hysterectomy for fibroid uterus. One hour before surgery, she received an intramuscular injection of 50 mg ranitidine hydrochloride in the preoperative ward. Thirty minutes later she complained of dysponea, chest pain and restlessness. On examination she had swelling on her face and tongue. Her radial pulse was not palpable and blood pressure was not recordable. She was immediately given an intravenous injection of ephedrine hydrochloride 15 mg, chlorpheniramine maleate 10 mg, epinephrine 2 mg, atropine 1.2 mg and hydrocortisone sodium succinate 200 mg. During endotracheal intubation, edema of the epiglottis as well as the vocal cords was seen. Despite all resuscitative measures and subsequent attempts at revival by

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the cardiac arrest team, she could not be revived.

#### **Discussion**

Routine use of H antagonists for premedication is not recommended in elective surgery. Premedication with H antagonists, may however be beneficial for prevention of aspiration pneumonia in patients prone to gastric aspiration, such as those with full stomach, obesity and pregnancy.

Due to the fatal outcome in the preoperative ward in this woman, the histamine release test, the specific IgE tests and the cell antigen stimulation test could not be carried out. Radioallergobasorbent test (RAST) for ranitidine was not available in our institution.

There have been reported incidences of anaphylactoid reaction to ranitidine <sup>2,3</sup> but to our knowledge there are no reported cases with a fatal outcome.

Although ranitidine has been widely prescribed as premedication in obstetrics and in high risk patients, it is very important to be vigilant especially with parenteral administration.

#### References

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