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Case Report

Acute Gastric Ischemia Following Severe Hypotension During Epidural Anesthesia

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Abstract

A case of acute gastric ischemia caused by severe hypotension that despite the rich vascular supply of stomach, ultimately ended to death.

Keywords: Gastric; Ischemia; Hypotension; Epidural; Anesthesia

Introduction

The following case report provides evidence that in severe systemic hypotension even in the event of proper resuscitation, not only liver but gastric wall could as well suffer significant ischemic lesions, that under certain circumstances could end in a significantly adverse effect.

Case

A 47 years old woman was admitted to the Orthopedics Department because of femoral bone fracture. Before starting reduction surgery of the fracture, during epidural anesthesia the patient developed severe systemic hypotension accompanied by idioventricular rhythm. She was administered crystalloid and colloid solutions and treated with intravenous dopamine and noradrenaline in the intensive care unit. Laboratory data of next day were compatible with 'shock liver' (significantly high levels of transaminases and lactic dehydrogenase). Bloody content was aspirated from nasogastric tube on day 3. Endoscopic examination demonstrated large gangrenous areas at the anterior and posterior wall of stomach (Figure 1) with a clear demarcation between healthy and ischemic gastric mucosa. Patient succumbed to septic complications 10 days later.

Discussion and Conclusion

The most vulnerable abdominal organs during severe hypotension are usually the liver, manifesting as ischemic liver disease, otherwise known as 'shock liver', and ischemic bowel disease [1]. Rich collateral blood flow and extensive submucosal vascular network protect stomach from necrosis even after ligation of all major vessels [1]. The causes of gastric ischemia can be vascular, mechanical, toxic, inflammatory, infectious, autoimmune or idiopathic [1-4].



Figure 1: Endoscopic view of gangrenous areas covering a large part of stomach with clear demarcation of ischemic and uninvolved gastric mucosa.

Acute gastric ischemia, poorly known by physicians, is a very rare and often lethal entity. Regarding our patient, we believe that ischemic gastritis was a unusual consequence of visceral hypoperfusion secondary to severe systemic hypotension related to epidural anesthesia, ultimately leading to death.

Conflict of Interest

None.

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