

Intra-abdominal Hemorrhage Due to Rupture of a Mycotic Jejunal Artery Pseudoaneurysm in a 37-year-old Patient with Klebsiella Pneumoniae Endocarditis on Prosthetic Cardiac Valves: A Case Report

Ana-Maria Serban¹, Elena Andrei², Catalina Ionita², Alexandru Martiniuc^{1,2}, Marian Tudoroiu³, Ovidiu Stiru^{2,4}, Adrian Marinescu⁵, Traian Dumitrascu^{1,2}

¹Center of General Surgery and Liver Transplant, Fundeni Clinical Institute, Bucharest, Romania

²Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

³Department of Anesthesiology and Intensive Care Medicine, Fundeni Clinical Institute, Bucharest, Romania

⁴Department of Cardiac Surgery, C.C. Iliescu Institute of Cardiovascular Diseases, Bucharest, Romania

⁵Department of Infectious Diseases, Matei Bals Institute of Infectious Diseases, Bucharest, Romania

Abstract

Visceral artery aneurysms (VAAs) are defined as aneurysms affecting the celiac, superior, or inferior mesenteric arteries and their branches. The incidence rate of aneurysms of superior mesenteric artery (SMA) and its branches is exceptionally infrequent, with only a handful of cases ever reported. Mycotic aneurysms (MA) in the context of infective endocarditis (IE) are also uncommon, particularly for *Klebsiella Pneumoniae* species etiology. Hereby, it is presented a case of a 37-year-old male with previous prosthetic heart valves for IE who developed recurrent IE and furthermore presents with intra-abdominal hemorrhage due to a ruptured jejunal artery MA with *Klebsiella Pneumoniae*. The patient was surgically managed with resection of the MA and segmental bowel resection with anastomosis. The postoperative outcome was uneventful. Mycotic jejunal artery pseudoaneurysm in the context of IE on prosthetic heart valves is an exceptional appearance, particularly with *Klebsiella Pneumoniae* spp. etiology. In case of ruptured mycotic jejunal artery pseudoaneurysm surgery is usually required, particularly in the context of hemoperitoneum or intestinal ischemia.

Key words: jejunal artery pseudoaneurysm; mycotic aneurysm; infective endocarditis, prosthetic cardiac valves; hemorrhage; surgery