# Splenic Artery Aneurysm Rupture Post-Anterior Cervical Discectomy and Fusion: Case report & literature review

School of medicine, University of Jordan

## Abstract

Background: Anterior cervical discectomy and fusion (ACDF) is a regular surgical procedure for correcting spinal deformities and pain relief. There are several complications of ACDF, one of which is postoperative hematomas. Here, we report an unexpected case of intra-abdominal hematoma after ACDF with no prior abdominal symptoms or underlying conditions identified since admission. This report will describe the events and interventions that took place for this patient.

Case description: The patient is a 44-year-old female with a history of neck pain of four-month duration. On Magnetic Resonance Imaging (MRI), a degenerative cervical disk (C5-C6) was identified. Prior surgical history is significant for a C4-C5 ACDF 3 years ago. An anterior cervical discectomy and fusion was performed and the patient was doing well relatively post surgery. However, in less than 24 hours, the patient complained of severe abdominal pain. An abdominal CAT scan revealed internal bleeding and a splenic aneurysm rupture. The patient immediately underwent an urgent laparotomy and splenectomy.

Conclusion: Patients undergoing ACDF should be monitored closely following surgery for any complications. Physicians should consider the possibility of any signs of hematoma due to underlying conditions that are undiagnosed in order to treat accordingly.

## Recent Publications

1. Miura Y, Masaoka H, Satomura Y, et al. Splenic artery aneurysm with double rupture phenomenon. Nihon Kyukyu Igakukai Zasshi. 1996;7(7):352-356.
2. Tasiou A, Giannis T, Brotis AG, et al. Anterior cervical spine surgery-associated complications in a retrospective case-control study. J Spine Surg. 2017;3(3):444-459.
3. Mariúba JV de O. Splenic aneurysms: Natural history and treatment techniques. J Vasc Bras. 2020;19.
4. Hogendoorn W, Lavida A, Myriam Hunink MG, et al. Open repair, endovascular repair, and conservative management of true splenic artery aneurysms
5. Akbulut S, Otan E. Management of giant splenic artery aneurysm. Med (United States). 2015;94(27).

## Biography



Moaiad Hussein is a passionate and keen medical student at the university of Jordan interested in surgery research, with dedication to improving his medical knowledge in all aspects. He was an intern at Farah Medical center, one of the leading medical centers in his homeland, Jordan, in 2018 and 2021 and has also received Queen Rania's Outstanding UK Learner Award in 2018.

Email: may0191447@ju.edu.jo.com

**Notes/Comments:**