

AB191. 163. Spontaneous, atraumatic splenic rupture, a single centre experience

Eoghan Meagher^{1,2}, Christina Fleming^{1,2}, Nisar Ali², Shona Tormey^{2,3}, Eamon Kavanagh⁴

¹Department of Vascular Surgery, ²Department of General Surgery, ³Department of Breast, ⁴Department of Vascular, University Hospital Limerick, Limerick, Ireland

Background: Spontaneous, or atraumatic splenic rupture, as defined by Weidemann in 1927 (Lieberman *et al.*, 1989) as a splenic ‘rupture resulting from an incident without external force’, is significantly less common than traumatic splenic rupture. However, in recent years at least 300 cases have been reported (Tonolini *et al.*, 2016). Atraumatic Splenic Rupture is a life-threatening condition requiring urgent surgical intervention with an underlying pathology (e.g., neoplasm, infection, inflammatory disease) identified in 95% of cases (Renzulli *et al.*, 2009). Here, we summarize a single centre general surgery experience.

Methods: A medical chart review was performed of cases presenting to the General Surgery Department

at University Hospital Limerick where a diagnosis of atraumatic splenic rupture was made from 2012 to 2018. Patient demographics, underlying pathology, treatment and clinical outcomes were reviewed and summarized.

Results: A total of six cases were identified, 3 males and 3 females. The following underlying pathologies were present: B-cell lymphoma; chronic pancreatitis with pseudocyst; splenic artery aneurysm; Epstein Barr Virus; Myeloid Leukaemia; and unknown (iatrogenic). All patients presented with unprovoked, generalized abdominal pain and clinical symptoms in keeping with hypovolaemic shock. Diagnosis was confirmed in all six cases with cross-sectional CT imaging. All six patients required emergency laparotomy and splenectomy. No mortalities were identified.

Conclusions: Atraumatic Splenic Rupture is rare but requires consideration in devising a differential diagnosis in the setting of an acute abdomen to ensure the necessary, prompt surgical intervention is provided.

Keywords: Atraumatic; spontaneous; splenic rupture; case series

doi: 10.21037/map.2019.AB191

Cite this abstract as: Meagher E, Fleming C, Ali N, Tormey S, Kavanagh E. Spontaneous, atraumatic splenic rupture, a single centre experience. *Mesentery Peritoneum* 2019;3:AB191.