

Large right ventricular laceration during insertion of lariat device

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Pericardial access-related complications have been reported in 4–5 % of cases during percutaneous ligation of the left atrial appendage (LAA) with LARIAT device (1, 2). An 82 year-old lady with atrial fibrillation and contraindication to anticoagulation underwent LARIAT device insertion. Pericardial effusion was noted on transesophageal echocardiography soon after subxiphoid access. Pericardiocentesis was performed with auto-transfusion into the femoral vein for 90 min with no resolution of the effusion. Sternotomy was performed by the surgical team which revealed profuse active bleeding from a large RV laceration (Video). A 4–0 Prolene pledgeted suture was inserted to control the bleeding (Fig. 1). LAA was occluded with an Atriclip (Atricure Inc. Cincinnati, OH) 45 mm device (Fig 2). The patient had an uneventful postoperative course. This case emphasizes prompt surgical consultation in pericardial access-related complications during LARIAT device insertion.

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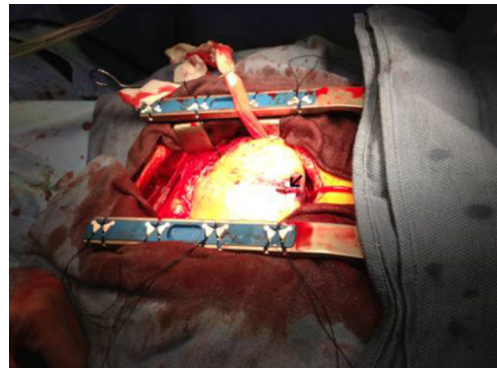


Fig. 1 Insertion of a 4–0 Prolene pledgeted suture to control bleeding

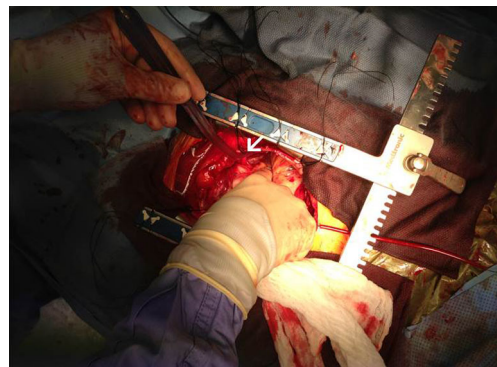


Fig. 2 Occlusion of the LAA with an Atriclip 45 mm device

Support None

Conflict of interest None of the authors have any financial or other potential conflicts of interest relative to the data in this manuscript.

References

1. Bartus, K., Han, F. T., Bednarek, J., et al. (2013). Percutaneous LAA suture ligation using LARIAT device in patients with atrial fibrillation: initial clinical experience. *Journal of the American College of Cardiology*, 62(2), 108–118.
2. Massumi, A., Chelu, M. G., Nazari, A., et al. (2013). Initial experience with a novel percutaneous left atrial appendage exclusion device in a patient with atrial fibrillation, increased stroke risk and complications to anticoagulation. *Am J Card*, 111(6), 869–873.