



Cor Triatriatum with Left Pulmonary Artery Sling: A Rare Congenital Association

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- **Background:**

Cor triatriatum sinister (CTS) and left pulmonary artery (LPA) sling are both rare congenital anomalies that independently cause respiratory distress and pulmonary venous obstruction. Their coexistence is extremely uncommon, with very few cases reported in literature.

- **Case Summary:**

- A 1 year 9-month-old child presented with recurrent respiratory distress associated with cyanosis since birth. Patient having history of surgery for Duodenal atresia at the age of 14 days of life. Clinical examination revealed tachypnea. Chest radiography demonstrated cardiomegaly with pulmonary venous congestion. Transthoracic echocardiography revealed a membranous partition within the left atrium consistent with Cor triatriatum sinister and abnormal pulmonary venous drainage. Computed tomography angiography confirmed the diagnosis and additionally demonstrated a left pulmonary artery arising from the right pulmonary artery, coursing between the trachea and esophagus—features diagnostic of a left pulmonary artery sling.

- The patient underwent combined surgical intervention via median sternotomy under cardiopulmonary bypass. The intra-atrial membrane was excised completely, and Left atrium was augmented with autologous unfixed pericardium, the left pulmonary artery sling was divided and LPA was reimplanted into the main pulmonary artery anterior to the trachea. The postoperatively patient developed left vocal cord palsy & managed conservatively, with marked improvement in respiratory symptoms. The child was discharged on postoperative day 14.

- **Conclusion:**

This case highlights the importance of considering multiple congenital anomalies in child with unexplained respiratory distress. Early multimodality imaging and combined surgical correction of both CTS and LPA sling are critical for optimal outcomes.

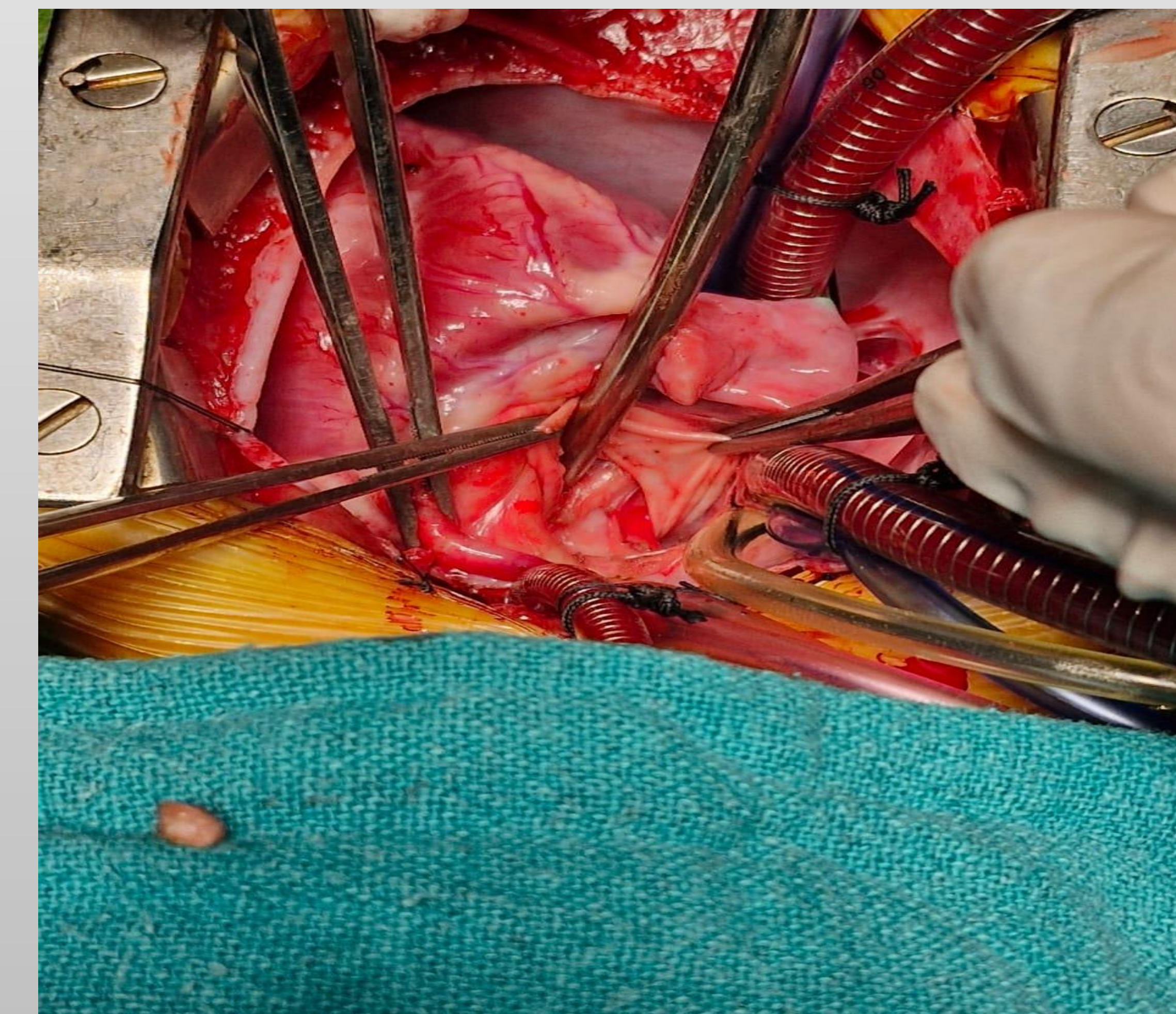
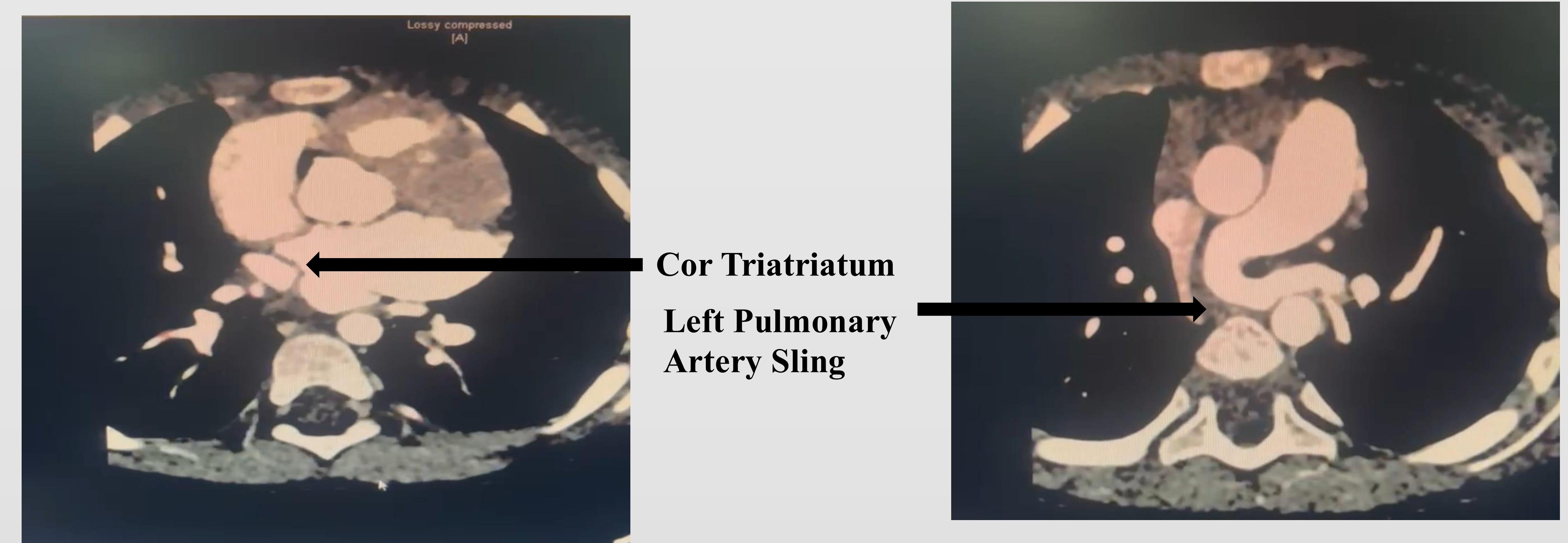


Fig No.1 Intraoperative picture showing left atrium after excision

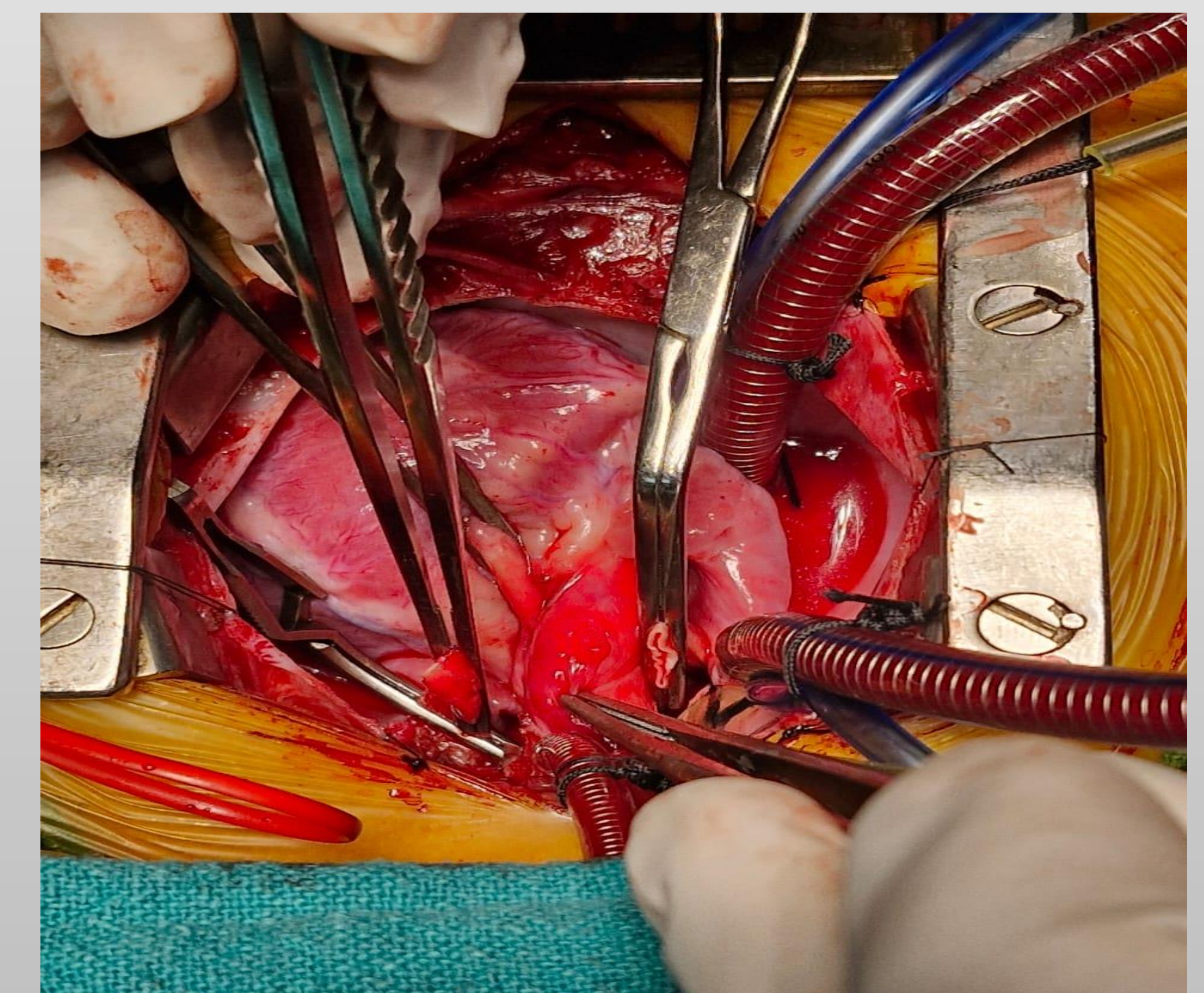


Fig no.2 LPA sling after division..