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Title: Diaphragmatic plication for diaphragmatic eventration: An evaluation of mid-term results

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Body: Diapragmatic eventration is a rare congenital anomaly in the muscular portion of the diapragm. Eventration of the diaphragm is occur due to congenital or acquired etiology, is thought to be caused by an acquired complete or in complete paralysis of the diaphragmatic leaf. Operative repair is indicated for adult patient who has symtoms. Classically transthoracic approach and diapragmatic plication have been the approaches of choice forsymptomatic diaphragmatic eventration. The aim of our study was to objectively assess our midterm results of diaphragmatic plication for hemidiaphragmatic eventration with the use of PFT. We performed 28 diaphragma plication and analysed pre and postoperative pulmonary function tests (PFT) at our instution between 2006-2012. All operation performed under laterally decubitis position and one lung ventilation. The classical approach was a posterolateral thoracotomy through 7th intercostal space. The thinned diaphragmatic leaf was repaired with plication. We compared pre and postoperative PFT, we found significant improvements in PFT results at 3 months after operation. We had no postoperative mortality or any other major complication. Diaphragmatic plication for hemidiaphragmatic eventration demonstrated significant midterm improvements in symtom and pulmonary function test results.