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Latissimus dorsi muscle fap in treating recurrent eventration of diaphragm

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Background: Diaphragmatic eventration-Permanent elevation of a hemi-diaphragm without defects in continuity. It is a rare anomaly, occurring in about 0.001-0.003% of live births (Urschel et al.,) It is associated with recurrent pneumonia, severe respiratory distress, ventilator dependency.

Case report: 11 month old child with recurrent respiratory tract infections requiring hospitalization. Hostory of full term normal vaginal delivery. Respiratory distress at birth, and was found to have le sided eventration of diaphragm. e child underwent laparotomy and plication repair on 8th day of life and was discharged home on 22nd day of life. However, the child developed recurrent episodes of cough and fever from one month post op.

Investigations: X Ray- elevated le dome of diaphragm Barium meal follow through- recurrence with stomach and splenic exure occupying the eventration.

Operative procedure: Le dorsolateral incision, Le latissimus dorsi identi ed, dissected and safeguarded, oracotomy done in 5th ICS, Eventration of le lobe of diaphragm, in diaphragm/sac on the anteromedial aspect le dome of diaphragm, Diaphragm repaired by plication and xation to the anterior chest wall, Diaphragm repair reinforced with le latissimus dorsi ap Incision closed in layers, wound dressed, Discharged on POD 22, with no complications.

Discussion: Neonates with large defects require prosthetic patch closure because of the paucity of native diaphragmatic tissue. As the child grows, patch separation can occur necessitating reoperation. Because of reliable blood supply and the innate strength, LD ap can support the diaphragm well and can prevent its eventration.

Conclusion: Diaphragmatic plication is a standard, well-described technique to treat diaphragmatic eventration. LD ap has been used in treating CDH, while its use in eventration is not well established. However, in our patient we performed a latissimus dorsi muscle ap to treat recurrent eventration of the le hemi diaphragm successfully.