

Repair Of The Diaphragmatic Defect Typ Fakültesi In Congenital Diaphragmatic Hernia With Latissimus Dorsi Muscle Flap



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Background & Aim: In cases where primary repair of congenital diaphragmatic hernia (CDH) is not possible, patch repair is the first choice. Long-term thoracic asymmetric development may occur following the repair of large defects with a patch. The aim of this study is to evaluate the outcomes of patients who underwent diaphragmatic defect repair with a latissimus dorsi flap in our clinic.

Material and Methods:

- June 2016 July 2024, retrospective
- Demographics
- Previous operations
- Operative indications
- Surgical technique
- Early-late complications
- · Clinical and radiological follow-up

Results:

- · Previous definitive surgery in external centres
- Indications of re-surgery:
 - P1: Recurrent hernia after primary repair for twice
 - P₂: Thoracic asymmetric development
 - P₃: Increased risk of asymmetric development
- · No recurrent hernia or flap necrosis



	Gender	Type of pathology	Previous surgery	Operation age (months)	Present patch	Recent patch	Nerve coaptation	Early complications	Follow-up time (months)
Ρ ₁	F	Right severe type D CDH	lleostomy	18	None	None	No	None	102
Ρ2	м	Diaphragmatic agenesis	Nissen fundoplication, gastrostomy	26	Dual-layer patch	Vicryl patch	Yes	None	33
Ρ ₃	м	Diaphragmatic agenesis	None	18	Gore-Tex*	None	Yes	Seroma	3

Table 1: Detailed data of patients





Conclusion: Repair with a latissimus dorsi flap is a safe and effective option for CDA and large CDH defects. Neuroanastomosis may be beneficial in providing neo-diaphragmatic movements.