

# INTERNATIONAL CONFERENCE ON PEDIATRIC SURGERY & NEUROSURGERY

Yerevan, Armenia, 6-7 September 2018



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OF PEDIATRIC SURGERY  
& NEUROSURGERY



6-8 September 2018

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CONFERENCE ABSTRACTS  
6 - 7 SEPTEMBER, 2018

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## INTESTINAL ANASTOMOSIS WITH HIGH RISK OF LEAKAGE

**INTRODUCTION:** Performing of intestinal anastomoses in newborns and young children with multiple atresia, thrombohemorrhagic processes and infection of abdominal cavity can be complicated with anastomoses failure.

Purpose: to diminish the risk of anastomosis failure.

**MATERIALS AND METHODS:** In Kharkiv Regional Children's Clinical Hospital No.1 during the last 5 years, 385 children with different intestinal pathology which required anastomoses formation were treated. We experienced in performing of the original anastomosis in 64 children. They had complex intestinal malformations (29), necrotizing enterocolitis (25), ulcerative necrotic enterocolitis (6), and other abdominal organ's pathology. Indications for developed technique of intestinal anastomosis were pathological processes with high risk of anastomosis failure and expected long-term disorders of passage. The characteristic of this anastomosis technique is semi-enclosed demucosation of the proximal intestinal loop with creating of seromuscular muff-shaped graft. This procedure allowed to determine border viability of intestine and isolate suture line with seromuscular graft by the use of sutural or glue fixation. This method of performing anastomosis didn't take longer than standard techniques. In one child 7 anastomoses were performed, in five children – 3 anastomoses, in 10 children – 2 anastomoses and in other cases one anastomosis was performed. There were no anastomosis failure cases after muff-shaped anastomosis technique.

**RESULTS:** The autopsy showed viability of seromucosal grafts. The analysis of long-term results demonstrated absence of stenotic manifestations and disturbance of passage through the connected segments.

**CONCLUSIONS:** Our experience of using muff-shaped anastomosis concluded that this type of anastomosis has high reliability in newborns and children of early age in complicated cases.



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