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# ESOPHAGOANASTOMOSIS COMPLICATIONS IN CHILDREN WITH ATRESIA OF THE PILLOUS

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#### Abstract

According to a large number of authors from the CIS countries and foreign countries on the treatment of esophageal atresia in young children, despite a number of achievements, many problems in this regard, as well as problems associated with technical aspects, have not been resolved, and mortality in this pathology is 40- 60%.

This guideline describes balloon tamponade of the cardia of the stomach and an improved method of applying esophagoanastomosis with a 180° rotation of the esophagus around its axis and suturing the anterior wall of the esophagus in young children diagnosed with esophageal atresia. The proposed tactical and technical approaches have made it possible to reduce the frequency of early postoperative complications and mortality associated with the operation, improve the quality of life of young children. The manual is intended for pediatric surgeons of neonatal surgery departments of specialized regional children's medical institutions.

Keywords: Esophageal atresia, esophagoanastomosis, young children, surgical treatment.

#### Introduction

**The relevance of the problem.** According to numerous authors from the CIS countries and foreign countries dedicated to the treatment of esophageal atresia in newborns, despite a number of achievements in this area, many problems, as well as problems related to technical aspects, remain unresolved [1.5.6], and the mortality rate from this pathology is 40-60% [5.16,19]. Especially in newborns with concomitant somatic diseases, difficulties arise in eliminating this defect [4,7,13,18,21].

The inclusion of data on the side effects of thoracotomy on the musculoskeletal complex of the growing organism in many literary sources has led to the introduction of minimally invasive methods such as thoracoscopy [3,5,9,7,16,18,19,20]. However, along with the advantages of this method, there are also obstacles to thoracoscopy due to ipsilateral lung collapse in children with less than 2 kg body mass and severe lung pathology. In addition, transpleural access is one of the drawbacks of thoracoscopic correction [3,5,8,10,12,16,18,20].

Diagnostic and tactical errors are often made in cases of congenital malformations without external defects, manifested as acne atresia. 58% of newborns with such anomalies are admitted to the surgical hospital within 3 days, while 42% of patients requiring emergency care are admitted to the surgical departments after 4-6 days, which creates conditions for the occurrence of negative consequences.

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Therefore, to date, there is no consensus on the diagnosis of communicative forms of esophageal atresia and their surgical correction.

## Conclusion

The results of surgical treatment of 62 newborns admitted to the surgical department of the Andijan Regional Children's Multidisciplinary Medical Center (AIMMC) over 5 years out of 68 newborns with AK who were hospitalized exclusively with AK and who had a primary (straight) anastomosis were analyzed.

Control group Type of complication № (n=62) abs % 1 9,6 Anastomosis instability 6 2 Fistula stump instability 1 1,6 3 Tracheo-esophageal fistula recanalization 1 1,6 4 Stomach perforation, peritonitis 2 3,2 Total 10 16

Early postoperative complications in newborns of the study group

Of the 6 newborns diagnosed with anastomosis instability, 2 underwent a surgical tactic of retoracotomy. Anastomosis was performed in 1 newborn and a cervical esophagostomy was performed and a Cader gastrostomy was formed, while another patient underwent reanastomosis. Conservative treatment was performed on 4 newborns, resulting in anastomosis closure in 3 patients on the 26th-49th day after surgery. One newborn with anastomotic instability, despite operative and conservative treatment, experienced a fatal outcome.

## Conclusion

In the early postoperative period, complications such as end-to-end esophageal anastomosis and anastomotic instability were more common in children born with esophageal atresia, however, it was noted that this complication decreased by 16% due to the research methods used by doctors in our clinic.

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