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## **Surgical Correction of Anal Canal Stenosis: Modern Methods and Effectiveness**

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**Relevance.** Anal canal stenosis is one of the most complex and painful issues in proctology, often resulting from surgical interventions, inflammation, trauma, or inflammatory diseases of the rectum. This condition significantly reduces the patient's quality of life, causing pain, defecation disorders, and frequent exacerbations. Despite advancements in surgery, effective and long-lasting treatment methods remain a subject of discussion. Research into surgical methods for treating anal canal stenosis is necessary to improve current approaches and enhance patient quality of life.

**Objective.** To evaluate the effectiveness of various surgical methods for correcting anal canal stenosis, identify factors influencing treatment outcomes, and develop recommendations to improve both short-term and long-term results.

**Materials and Methods.** The study was conducted at the surgical department of a multidisciplinary clinic. It included 78 patients suffering from different forms of anal canal stenosis. The patients were divided into groups based on the surgical methods used: anoplasty, anal canal dilation, sphincteroplasty, and combined methods. The effectiveness of the treatment was assessed using clinical data as well as pain assessment scales and quality of life questionnaires.

**Results and Discussion.** The study found that combined methods, including anoplasty and sphincteroplasty, yielded the best results in improving anal canal function and reducing pain. Patients who underwent combined treatment had fewer relapses and recovered more quickly postoperatively. Additionally, the time elapsed since the onset of stenosis had a significant impact on treatment outcomes. The earlier the surgery was performed, the higher the likelihood of a successful result.

### **Conclusions:**

1. Combined methods of surgical correction of anal canal stenosis show the best long-term effectiveness.
2. Early patient referral and timely diagnosis play a key role in the success of treatment.
3. The development of new, more minimally invasive surgical methods, including the use of laser technology, could improve treatment outcomes.