

COMPARATIVE ANALYSIS AND PRACTICAL EFFICACY OF ABDOMINOPLASTY AND LIPOSUCTION

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Abstract

This article provides a comparative analysis of abdominoplasty and liposuction procedures widely used in modern aesthetic plastic surgery, highlighting their clinical significance, indications for use, advantages, limitations, and practical effectiveness. Literature analysis shows that liposuction is an effective method for correcting local fatty deposits, while abdominoplasty yields high results in cases of skin ptosis of the anterior abdominal wall, muscle diastasis, and tissue relaxation. In modern approaches, it is possible to improve aesthetic and functional results by combining these two methods, specifically through lipoabdominoplasty.

Keywords: abdominoplasty, liposuction, lipoabdominoplasty, aesthetic surgery, body contouring, complications, effectiveness.

In recent years, the demand for surgical procedures aimed at restoring and correcting the body contour has been increasing within the field of aesthetic plastic surgery. This trend is linked to rising aesthetic standards among the population, an increase in cases of dramatic weight loss, post-pregnancy abdominal wall deformities, and the desire to improve body proportions. In this context, abdominoplasty and liposuction are considered among the most vital areas of modern aesthetic surgery.

According to Blokhin S.N. and Vulf I.A., a correct assessment of the patient's anatomical features, the condition of the skin-fat layer, changes in the musculo-aponeurotic system, and overall somatic status are key factors that determine the outcome of body contouring operations. The authors view abdominoplasty not merely as the removal of excess skin and fat tissue, but as a complex surgical procedure aimed at restoring the anatomical and functional integrity of the anterior abdominal wall. K.P. Pshenisnov considers aesthetic plastic surgery a medical field that influences not only a person's physical appearance but also their psychological state, social activity, and quality of life. In his opinion, while liposuction is effective for eliminating localized fat deposits, it may not yield sufficient results as a standalone method in cases where skin ptosis and abdominal wall laxity are present.

Objective of the Study To conduct a comparative assessment of the applications, advantages, limitations, and practical effectiveness of abdominoplasty and liposuction surgical methods based on a literature review.

Materials and Methods In preparing this article, scientific literature in the field of plastic and aesthetic surgery, monographs, international statistical reports, and scientific articles on body contouring surgery were analyzed. Specifically, data from Blokhin S.N., Vulf I.A., Pshenisnov K.P., Adamyan R.T., Saldanha O., Rohrich R.J., and the International Society of Aesthetic Plastic Surgery were used as a basis. Comparative, analytical, and generalizing approaches were employed during the analysis.

Results and discussion Abdominoplasty is an effective surgical technique used in patients with excess skin on the anterior abdominal wall, subcutaneous adipose tissue, muscle diastasis, and tissue relaxation. This operation not only improves the appearance of the abdominal area but also strengthens the musculoskeletal system, restores the functional state of the abdominal wall, and improves the patient's quality of life.

Liposuction is primarily aimed at eliminating local fat deposits. It improves body proportions and reduces excess fat deposits in the lower back, abdomen, hips, and thighs. However, liposuction itself may not yield an adequate aesthetic result in cases of skin ptosis, muscle diastasis, and abdominal wall relaxation. Therefore, when choosing the type of surgery, it is necessary to take into account the elasticity of the skin, the volume of adipose tissue, the patient's age, weight, somatic condition, and aesthetic expectations.

R.T. Adamyan emphasizes the importance of minimally invasive technologies in modern aesthetic surgery, energy-based liposuction methods, high-precision cannulae, and modern hemostasis technologies. These technologies serve to reduce tissue trauma during surgery, reduce blood loss, and accelerate the rehabilitation period. The concept of lipoabdominoplasty, developed by O. Saldanya, is a modern approach that combines abdominoplasty and liposuction. In this method, a high aesthetic result can be achieved by preserving perforated blood vessels in the abdominal wall, reducing tissue separation, and simultaneously correcting adipose tissue. Lipoabdominoplasty is significant because it reduces the risk of complications such as skin ischemia, necrosis, seroma, and hematoma compared to traditional abdominoplasty. R.J. Rohrich identifies the correct selection of patients, the assessment of preoperative risk factors, and adherence to safety protocols as the primary conditions for body contouring operations. In his opinion, liposuction is not a method of treating obesity, but a surgical procedure aimed at improving the contours of the body. Therefore, before liposuction, it is necessary to form realistic aesthetic expectations for the patient. ISAPS Global Survey reports indicate the international prevalence of abdominoplasty and liposuction in aesthetic surgery.

According to international data, liposuction is one of the most frequently performed aesthetic surgeries in the world, and abdominoplasty also occupies an important place among body contouring operations. This confirms the high practical significance of these operations. A comparative analysis of abdominoplasty and liposuction shows that they are not competing but complementary methods depending on the clinical condition. While liposuction is effective in reducing local fat deposits, abdominoplasty is preferred for eliminating skin ptosis and abdominal wall deformities. A combined approach allows for the further improvement of aesthetic and functional results.

Criteria for evaluating practical effectiveness Several criteria are important in evaluating the effectiveness of abdominoplasty and liposuction. These include the aesthetic outcome after surgery, improvement in the contours of the abdominal and lumbar regions, reduction in skin excess, elimination of muscle diastasis, patient satisfaction, frequency of complications, and rehabilitation duration. At the same time, the patient's psycho-emotional state, level of self-esteem, and social activity should also be evaluated as important performance indicators.

According to the literature analysis, abdominoplasty has high clinical efficacy in patients with skin ptosis and muscle diastasis. Liposuction, on the other hand, yields good results in patients with well-preserved skin elasticity and local fat deposits. Combined lipoabdominoplasty is considered an optimal method in cases of complex deformities.

Conclusion Abdominoplasty and liposuction are essential surgical techniques in modern aesthetic plastic surgery aimed at restoring and improving body contours. Abdominoplasty is highly effective in eliminating deformities of the anterior abdominal wall, skin ptosis, and muscle diastasis. Liposuction plays a crucial role in reducing local fat deposits and improving body proportions. The effectiveness of both methods depends on the correct selection of patients, preoperative assessment, determination of individual surgical tactics, and prevention of complications. In modern practice, the combination of abdominoplasty and liposuction—specifically the use of lipoabdominoplasty—allows for improving aesthetic results, reducing the risk of complications, and increasing patient satisfaction.

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