

COMPLICATIONS OF RECONSTRUCTIVE AND AESTHETIC SURGERY OF THE BREAST: LITERATURE REVIEW ARTICLE

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INTRODUCTION

Understanding the possible surgical complications is fundamental for the advancement of studies on breast reconstructive procedures and for professionals to consider all the relevant factors of the surgery, leading their patients appropriately. Previous studies have highlighted various types of breast reconstructive surgery, each with its own particularities in terms of the complications that can arise. Aesthetic breast procedures include augmentation, reduction and mastopexy.

OBJECTIVES

This study aims to analyze the possible complications of reconstructive and aesthetic breast surgery through a literature review. In this way, it seeks to reaffirm the importance of care during and after procedures, considering factors such as family history of breast cancer, lifestyle and others aspects that could interfere with the success of the surgery.

METHODOLOGY

This is a literature review focusing on the complications of reconstructive and aesthetic breast surgery, with a search carried out on the UpToDate **and** PubMed databases. The inclusion criteria were articles published between 1997 and 2022, using the following keywords: breast implant, mastectomy and surgical lesions.

RESULTS

A review of the MROC5 database brought together research and reports of patients with a greater predisposition to breast complications. Among the findings, the DIEP **and** SIEA flaps were associated with greater abdominal physical well-being compared to other techniques, with SIEA being more advantageous as it preserves the anterior sheath of the rectus abdominis muscle. In aesthetic implants, the most recurrent complications were capsular contracture, followed by implant rupture, hematomas **and** infections in the surgical incision. Thus, complications both in the donor area and in the region of the prosthesis can compromise the results and negatively impact the patient's quality of life.

CONCLUSIONS

In summary, the complications of reconstructive and aesthetic breast surgery include risks associated with augmentation, reduction and mastopexy procedures. Although post-operative complications can occur, most patients reported satisfaction with the results obtained. Factors such as smoking, obesity, a history of breast cancer and genetic predisposition increase the risk of complications, including seroma formation, bleeding, hematoma, ischemia, necrosis, rejection of donor tissue and implant failure. Also noteworthy is the difficulty in detecting early failures in silicone gel implants, the rupture of which can trigger inflammatory processes, making surgical removal necessary.

REFERENCES

- ARACO, Adam et al. A retrospective analysis of 3,000 primary aesthetic breast augmentations: postoperative complications and associated factors. *Aesthetic Plastic Surgery*, v. 31, n. 5, set./out. 2007. Disponível em: <https://pubmed.ncbi.nlm.nih.gov/17659411>. Acesso em: 3 abr. 2022.
- GABRIEL, Sherine et al. Complications leading to surgery after breast implantation. *New England Journal of Medicine*, v. 336, n. 10, 6 mar. 1997. Disponível em: <https://pubmed.ncbi.nlm.nih.gov/9041097>. Acesso em: 10 abr. 2022.
- KAUFMAN, Cary et al. Oncoplastic breast surgery. *UpToDate*, 2020. Disponível em: <https://www.uptodate.com/contents/oncoplastic-breast-surgery>. Acesso em: 2 maio 2022.
- NAHABEDIAN, Maurice. Complications of reconstructive and aesthetic breast surgery. *UpToDate*, 2021. Disponível em: <https://www.uptodate.com/contents/complications-of-reconstructive-and-aesthetic-breast-surgery>. Acesso em: 30 mar. 2022.
- NAHABEDIAN, Maurice. Symmetrical Breast Reconstruction: Analysis of Secondary Procedures after Reconstruction with Implants and Autologous Tissue. *Plastic and Reconstructive Surgery Journal*, v. 115, n. 1, p. 257-260, jan. 2005. Acesso em: 3 abr. 2022.