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Half-moon technique: a new option for breast reconstruction of central tumors or tumors with central extension

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Objective: This study aimed to describe and evaluate the indications and results of a new surgical technique for use in the breast-conservative treatment of tumors in the central quadrants or central extension. **Methodology:** This study was approved by the UniFaminas – Muriaé Ethics Committee (CAAE Project 68787623.8.0000.5105, dated 05/03/2023). The new technique, called “half-moon,” consists of creating a circular island of skin in areas close to the central region, in patients undergoing areolar resection. To do this, an island of skin is created from neighboring semicircles created horizontally or vertically. It is indicated for breasts with small and medium volume, absent or small ptosis, aiming to create a central area, with minimal loss of volume and volume projection. The characteristics of the patients were evaluated, as well as the results of this new technique. **Results:** From February 2022 to January 2024, 14 patients underwent the half-moon technique. The median age was 45 years (31–67 years). Given the indication, the majority had small and medium breast volume (11), with absent or grade 1 ptosis (9). In the majority, surgery occurred after neoadjuvant chemotherapy (8), with partial response. Regarding the technique, the surgery was vertical in 11 cases and vertical in 3 cases, being associated with breast explantation and geometric compensation in 2 cases. Of the eight patients who completed the initial treatment, three underwent symmetrization, and five refused symmetrization, considering the acceptable results. **Conclusion:** The half-moon flap constitutes a new safe reconstruction option to be performed in central tumors, with areolar resection being easy to perform and providing acceptable cosmetic results.

Keywords: breast neoplasms; breast-conserving surgery; surgical flap; surgical procedures; operative.