Giant basal cell carcinoma of the scalp: report of late reconstruction
Carcinoma basocelular gigante em couro cabeludo: relato de reconstrução tardia

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ABSTRACT
The giant BCC is a rare variant, and the repair of large defects in the scalp, generated after oncologic resection, is a surgical challenge. We report the case of a patient submitted to late scalp reconstruction after oncologic resection of giant BCC in the scalp with the association of techniques. Reconstruction of scalp lesions depends on a comprehensive understanding of the anatomy of this site, knowledge of the arsenal of surgical techniques, and a detailed assessment of patient factors and expectations, given the impact on the quality of life and morbidity related to each therapeutic option.

Keywords: Carcinoma, Basal Cell; Reconstructive Surgical Procedures; Scalp Dermatoses

INTRODUCTION
Basal cell carcinoma (BCC) is the most common cancer in light-skinned populations, accounting for more than 75% of non-melanoma skin cancers. It occurs in the head and neck region in approximately 80% of cases. Giant BCC (GBCC), defined as a lesion larger than 5 cm in its largest diameter, is a rare variant of BCC, with an incidence of 0.5%. In contrast to the small lesion, the giant variant develops on non-exposed skin, including the back, shoulders, groins, and thighs. Scalp involvement is extremely rare. The lesion can invade the underlying deep tissue, compromising treatment options and challenging reconstruction methods.

Many therapeutic modalities have already been reported as surgical options, with varying results. The main ones include surgical excision and reconstruction, radiotherapy, and Mohs micrographic surgery, the latter being the gold standard treatment for giant BCC.1,2
Scalp reconstruction after ablative surgery can be challenging. Physicians must evaluate each case individually. The best proposal for reconstruction must be based on the patient’s health, psychosocial aspect, and the therapeutic planning of the underlying disease, without compromising the oncological surgery principles.4,5

This study aims to report the case of a patient who underwent late scalp reconstruction after oncological resection of giant basal cell carcinoma on the scalp, with the association of techniques.

CASE REPORT

A 74-year-old woman, retired, living in a rural area, presented a papular-nodular lesion on the scalp eight years ago. The lesion had slow and progressive growth, with central healing, bleeding, and local itching.

Upon dermatological examination, we observed a scalp with an extensive plaque of scarring alopecia, presenting an atrophic center, with exulcerations and crusts, periphery with papulous, pigmented, lacy-looking edges, measuring 17 x 17 cm, located in the right frontotemporoparietal region. (Figure 1). Dermoscopy showed the presence of large, unfocused blue-gray cells, with edges tending to form rounded structures and tortuous vessels with arboriform ramifications (Figure 2). Anatomopathology was compatible with pigmented basal cell carcinoma.

We performed a scalp lesion excision, respecting oncological surgical margins, aided by dermoscopy. Healing by secondary intention was chosen with late reapproach (Figures 3 and 4).

After four months, partial skin grafting of the lateral aspect of the left thigh was performed on the recipient area’s granulation tissue, using a dermatome.

The patient evolved with good response to the graft, presenting necrosis of approximately 10% of its extension and subsequent total healing (Figure 5).

DISCUSSION

The repair of large scalp defects generated after cancer resection is a surgical challenge. Modern surgery techniques have provided a greater capacity for resolving lesions and as a reduction in perioperative and postoperative complications, and a better aesthetic and functional result.6

Size, location, local tissue’s quality, and scalp distortion help choose the best reconstructive method. Practitioners must also consider the patient’s intrinsic and psychosocial factors, given the impact on their quality of life.4,6

Healing by secondary intention can be used when the pericranial layer with extensive exposure is present, and when a shorter surgical time is required. The disadvantages of this method include delayed healing, alopecia, telangiectasias, and thin coverage.4

The partial skin graft has been used in large defects due to the technique’s speed and ease, the possibility of monitoring tumor recurrence, and fast healing.7 It should be used when aesthetic issues are not a concern, as they can lead to alopecia,
hypopigmentation, contour deformity, and morbidity of the donor site.\textsuperscript{4}

A retrospective study assessed 65 patients who underwent skin grafts on the scalp, with grafts from various sites, including six thigh flaps. This study reported a low rate of surgery complications and satisfactory and long-lasting cosmetic results. It recommended using anterolateral thigh (ALT) flaps for surgeries in the scalp’s temporal-lateral region.\textsuperscript{8}

As in the case reported, the association of healing by secondary intention techniques and partial skin graft can be used. The formation of granulation tissue is related to greater adherence of the skin graft due to greater vascularization, enabling better results.\textsuperscript{3}

**CONCLUSION**

The reconstruction of scalp lesions depends on a comprehensive understanding of the scalp’s anatomy, knowledge of the surgical techniques’ arsenal, and a detailed assessment of the patient’s factors and expectations. The reconstructive goal must be adapted for each patient individually, aiming at the success of the reconstruction and a satisfactory aesthetic-functional result.
REFERENCES


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