SHORT COMMUNICATION

IC plasty for reconstruction of axillary defect

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Introduction

Reconstruction of axillary defects following surgery or trauma has always been a significant challenge for plastic surgeons. A variety of reconstruction options are available, including directed cicatrization, skin grafts and local flaps, but all of these procedures may allow skin contracture and leave unsightly scars [1,2]. Free flap is a useful option but it requires an experienced surgical staff, expensive instruments and plenty of time.

IC plasty is a simple and reliable technique using the adjacent healthy skin for coverage of axillary defects. It was first described in 1960 by Colson et al. [3], and then by Baux et al. [4] in 1985 in the treatment of post-burn axillary contractures. This technique is a derivative of Z plasty, in which only one flap is transposed. The defect constitutes the I, while the C is drawn on intact skin (e.g. brachial or axillary region) after the determination of a neutral point not moving during the abduction of shoulder (point of rotation of the flap) (Figure 1). The C flap is elevated from the deep healthy skin, and transferred to the recipient site for covering axillary skin defect. The donor site is closed with a suction drain left in place [5].

Case presentation

We report the case of a 17-year-old, right handed, without past medical history, presented with a severe, medically intractable, right axillary hidradenitis suppurativa for two years. Surgical removal of all the diseased skin left a large defect (Figure 2). Reconstruction was performed under general anesthesia with IC cutaneous brachial flap; postoperative courses were uneventful (Figure 3). The patient

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was followed-up clinically for three months; her shoulder mobility was perfectly preserved with a normal abduction. IC plasty is a valuable and a versatile plasty, and its applicability can be extended to the other major joint defects (e.g. inguinal and popliteal fossae). It gives a successful functional outcome (a large range of joint mobility) if it is designed well and performed properly.

Conflict of interest

The authors declare no potential conflict of interest with respect to the research, authorship, and/or publication of this article.

References


Figure 2. Right axillary defect following surgical excision of hidradenitis suppurativa

Figure 3. Immediate post-operative appearance