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Partial mastectomy using manual blunt dissection (MBD) in early breast cancer

Shinichiro Kashiwagi^{*}, Naoyoshi Onoda, Yuka Asano, Kento Kurata, Tamami Morisaki, Satoru Noda, Hidemi Kawajiri, Tsutomu Takashima and Kosei Hirakawa

Abstract

Background: Breast-preserving surgery (Bp) and sentinel lymph node biopsy (SNB) are established as standard treatment for axillary lymph node-negative early breast cancer.

Methods: A surgical technique using manual blunt dissection (MBD), in which use of electrocautery, an ultrasonically activated scalpel, and ligation is minimized, is described. This involves an approach from small incisions in the axilla or areola to avoid injury to skin flaps, and with adequate mobilization of the breast, so that regardless of the tumor site, surgical wounds are not noticeable. The usefulness and tolerability of this surgical technique were examined.

Results: This surgical technique was evaluated in 233 patients. Surgery could be performed rapidly, with a mean operative time of 67 ± 21 min and a low mean blood loss of only 35 ± 28 ml. There was little need for postoperative analgesia, and surgery was well tolerated without postoperative bleeding or wound infection.

Conclusion: Our proposed technique for partial mastectomy using MBD provides good curative and cosmetic results.

Keywords: Breast cancer, Manual blunt dissection, Partial mastectomy, Surgery, Breast-preserving surgery

Background

Breast-preserving surgery (Bp) and sentinel lymph node biopsy (SNB) are established as standard treatment for axillary lymph node-negative early breast cancer [1–3]. With the addition of appropriate postoperative radiotherapy, survival rates equivalent to mastectomy, low recurrence in the preserved breast, and acceptable treatment outcomes have been achieved [4–6]. New surgical techniques to maintain these cure rates and provide good cosmetic results must now be developed.

A surgical technique using manual blunt dissection (MBD), in which use of electrocautery, an ultrasonically activated scalpel, and ligation is minimized, is described. It involves an approach from small incisions in the axilla or areola to avoid injury to skin flaps, and with adequate mobilization of the breast, so that regardless of the tumor site, surgical wounds are not noticeable. The

usefulness and tolerability of this surgical technique were examined.

Methods

Patient characteristics

This study included patients with primary breast cancer that was confirmed preoperatively by needle biopsy between January 2010 and December 2012. Surgical outcomes for 233 patients who underwent Bp + SNB at our hospital are shown. The indications for this surgery were a preoperative diagnosis of ductal carcinoma in situ (DCIS) or tumor size ≤ 3 cm for invasive carcinoma, each without clinical axillary node metastases (cN0) [2]. Lesion extent was assessed by ultrasound and magnetic resonance imaging (MRI). For the mammary excision stump, a tumor margin that was less than 5 mm was considered positive and, in positive cases, a radiation boost of 10 Grays was added. In addition, when there was marked denodation of the cancer nest, re-excision was performed. Cosmesis was evaluated after Bp using a patient-based tool, the "Four points of evaluation of Harvard" [7].

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Manual Of Mastectomy

RJ Alexander



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