

Breast Reconstruction and Treatment & Prevention of Axillary Dissection Related Upper Arm Lymphedema

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Abstract

Background: Breast Reconstruction is especially challenging in mainland China.

Objective: Radical mastectomy, modified radical mastectomy and breast conservation treatment are still the main procedures for surgical treatment for breast cancer. Surgical and radiological therapy often leads to not only deformities on chest wall, total or partial breast lost, but also auxiliary deformity and related upper limb lymphedema. The entire plan of reconstruction includes overall pre-evaluation, selection of suitable surgical technique to restore the shape and sensation of reconstructive breast, restoration of the auxiliary area, prevention and treatment of upper limb lymphedema, all of this helps to improve cosmetic breast results and restore the function of upper extremity.

Methods: personal cases retrospective study from 2003 till 2019, different surgical procedures and stages of reconstructions were analyzed.

Results: For the technique: the first DIEP technique breast reconstruction was reported in 2001. In 2013, lymphatic DIEP for breast reconstruction and treatment of axillary dissection related lymphedema was reported. In 2015, DIEP+ Lymphedema Prevention Microsurgical Healing Approach (LYMPHA) was published in Microsurgery. 2016, we had first report of PAP breast reconstruction in mainland China. As recipient vessel, proximal and distal Internal mammary vessels technique (1994) was primary used in mainland China and was popularized national and international (U.S.A.,UK, ITALY, etal).

For the amount: Breast reconstruction rate was increasing from about 5% (2014) to 11%(2018) .

Conclusion: Modern breast reconstructive techniques can achieve good result in correcting the breast oncological surgery treatment related deformity on breast, chest wall, auxiliary, also can prevent

and decrease upper limb lymphedema.

The earlier the better that plastic surgeon was involved in breast cancer treatment Multidisciplinary Team.

[Key words] breast reconstruction, prevention and treatment of upper arm lymphedema

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