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Modified wise pattern breast reduction skin design for autologous breast reconstruction with ptosis

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Introduction: In recent years, there is an increased shift for autologous breast reconstruction. More patients presented with a grade II or III breast ptosis which can create significant problems in cases of an immediate breast reconstruction. Autologous dermal flap has been described in implant-based breast reconstruction. A slightly different design of the autologous dermal flap using a Wise breast reduction skin pattern to increase viability of the nipple areolar complex and correct the breast ptosis is described in this study.

Case Report: Several patients with grade II or III breast ptosis presented to plastic surgery clinic seeking immediate autologous-based breast reconstruction. A modified Wise pattern breast reduction skin incision with a 9-cm vertical limb was designed for those patients. The inferior flap was de-epithelialized leaving the nipple areolar complex intact. Breast surgeons then utilized the vertical limb incision for mastectomy with sentinel lymph node biopsy. After performing the breast reconstruction with autologous abdominal based flap, the breast incision was then closed in the Wise pattern. The new nipple areolar complex position was then marked 5 cm from the inframammary fold. Good aesthetic outcomes with viable nipple areolar complex.

Discussion: Modified Wise pattern breast reduction skin incision can be safely used in immediate breast reconstruction patients with high grade ptosis.

Biography

Shiliang Chang received her Medical Degree from the University of Texas Southwestern Medical School at Dallas in 2003. She completed her General Surgery Residency at Maricopa Integrated Health System in Phoenix, Arizona in 2008 and her Plastic Surgery Residency at the University of Texas Health Science Center of San Antonio in 2011. She became certified by the American Board of Plastic and Reconstructive Surgery in 2012. Her clinical interests include breast reconstruction, local/regional/free flaps and cosmetic procedures. Her research interests include fat grafting and the effects of obesity to wound healing.

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