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Neomargin- surgical clip for tumor localization after neoadjuvant chemotherapy

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The concept of Neoadjuvant chemotherapy (NAC) has become standard management when facing locally advanced breast cancer, especially triple negative and HER2 type breast cancer. It reduces tumors which may require total mastectomy and increases breast conservation rates with the same oncological safety. After NAC and target therapy, some tumors will shrinkage very fast and hard to localize under ultrasound during operation. In 1990s, surgeon tried to place marker in tumor to localize the tumor after NAC and do the breast conservation surgery.

Nowadays, we can place surgical metal clip in tumor and metastatic lymph node before NAC and preform mammography localization before surgery. It will be precise remove tumor and preserves more breast to prevent deformity. Neo-margin concept is when we localize marker, which distance is suitable for safe margin.

At axillary lymph node clipping, we use ultrasound to localize clipped lymph node and undergo the target sentinel lymph node biopsy which avoid axillary lymph node dissection to prevent lymphedema.