Nipple Sensation-Sparing Chest Masculinization Surgery

Patient Guide

What is it?

Usually, when patients undergo chest masculinization surgery (double mastectomy), the resulting sensation in the chest wall can feel numb in places, and the nipples can lose sensitivity. The flat aesthetic is there, but not the feeling. The nipple sensation-sparing technique is an additional step to a chest masculinization surgery that preserves the patient's own nerves so they can still feel their chest afterward.

while the nerves reattach, but these will usually go away within a few months.

Drawbacks

Technique Overview

 Requires the nipple to be spared or freegrafted as a graft point for the transected nerves

o At least 2-3 nerves are traced and removed from the breast at the

beginning of the operation. Once the

breast tissues are removed, those nerves

are re-attached to the chest and

operation and only adds about 30

mild itching or burning sensations

o The procedure can be done in one

o Post-operative differences include some

threaded through the nipple.

minutes to the operation.

- May still result in loss of sensation in the chest.
- Many physical and mental factors affect the approach taken for all bilateral mastectomies, so it is possible that the NSS approach won't be the best option.
- Patients who are offered the technique may want to opt for a different approach based on their desired outcomes.

Benefits

To know the movement of your body is to inhabit it.

- Preserved sensation leads to less accidental injury to the chest
- Patients report a better sense of connection with their body than those who did not have nipple sensation-sparing surgeries
- Regrafting nerves may actually improve sensation for patients with larger pre-op breast volume



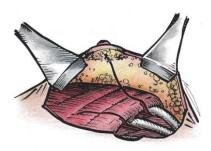


Illustration by Phil Brazio, MD.

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 ☑ Patient Candidacy ☐ Healthy nerves: ☐ Not currently in or expecting to have chemotherapy ☐ Less than 65 years old ☐ Good blood flow to breast area ☐ Minimal comorbidities ☐ Small to large pre-op breast volume (not extra-large or broad-based breasts) ☐ Little to no breast reconstruction needed ☐ *Short nerve stumps or inadequate nerve length – only known during surgery
 Further Reading: "Gender-Affirming Sensation-Preserving Surgery" from Peled Surgery - https://peledsurgery.com/home-alternate-1/gender-affirming/ Remy, K., et al. (2024). Targeted Reinnervation During Gender-Affirming Mastectomy and Restoration of Sensation. <i>JAMA Network Open</i>, 7(11), e2446782. https://doi.org/10.1001/jamanetworkopen.2024.46782 Rochlin, D. H., et al. (2020). Immediate Targeted Nipple-Areolar Complex Reinnervation: Improving Outcomes in Gender-affirming Mastectomy. <i>Plastic & Recon Surg</i>, 8(3), e2719. https://doi.org/10.1097/GOX.000000000002719
Additional Consultation Notes:
Consulting Surgeon:
Consultation Date: / /
Contact: