

Comparative Analysis of Reduction Mammoplasty vs. Oncoplastic Breast Reconstruction: Assessing Clinical, Aesthetic, and Patient-Reported Outcomes

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Introduction

- Oncoplastic breast reconstruction benefits women undergoing breast conservation therapy (BCT) by alleviating macromastia symptoms and enhancing symmetry, shape, and cosmesis.
- Compared to BCT alone:
 1. With Increased OR time
 2. Additional surgical site
 3. Location of tumor limits pedicle choice
- No prior investigation on (a) post-operative clinical outcomes, (b) patient reported quality-of-life, and (c) aesthetic results of oncoplastic reconstruction (OP) compared to standard bilateral breast reduction (BBR).

Methods

- Single-surgeon, single-institution retrospective chart review from 4/2022-12/2023.
- Data collection on:
 - (a) Patient demographics and post-op clinical data per EMR review
 - (b) Patient-reported QoL outcomes: pre- vs. post-op BREAST-Q survey results
 - (c) Aesthetic outcomes: Ten 1:1 propensity score matched cases

Results

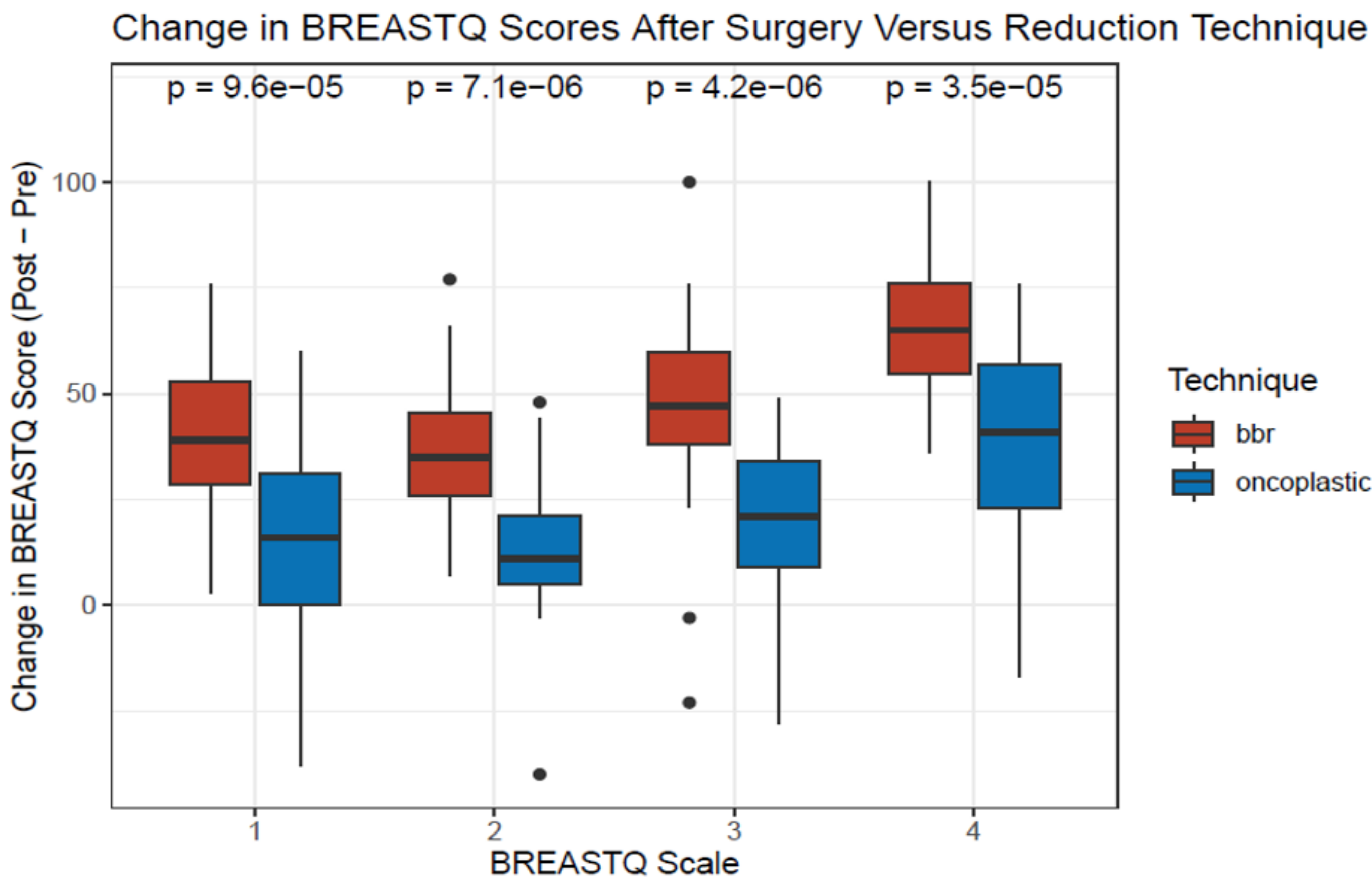
- 92 total patients, 56 (60.9%) received BBR and 36 (39.1%) oncoplastic reconstruction.
- BBR cohort significantly younger and with >resection weight.
- OP cohort with higher BMI and ASA class.

Clinical Outcomes:

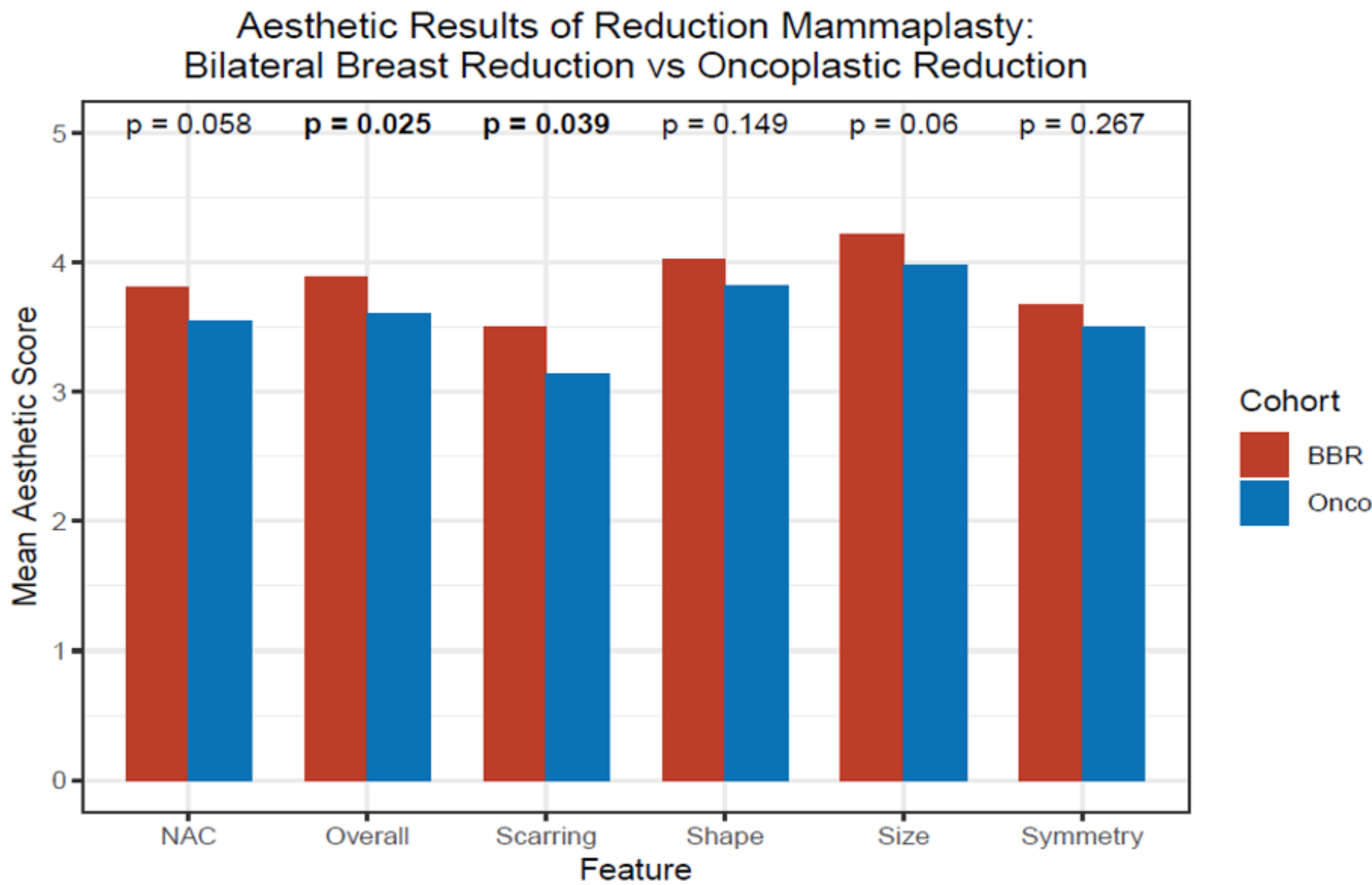
- OP and BBR cohorts with comparable post-op clinical complication profile.

QoL Outcomes:

- Both cohorts with significant improvements in all BREAST-Q pairings (psychosocial, sexual, physical well-being and breast satisfaction), through greater increase in BBR group



Aesthetic Outcomes:



Conclusion

- Notable differences in demographics and patient characteristics (age, ASA, race)
- Both groups with significant QoL improvement
- Comparable clinical and aesthetic results between the two cohorts
- Oncoplastic breast reconstruction be more readily discussed as a favorable surgical option when lumpectomy is indicated