

Introduction

Current paradigms in breast surgery are trending towards breast conservation, especially for early cancers.

40%

20%

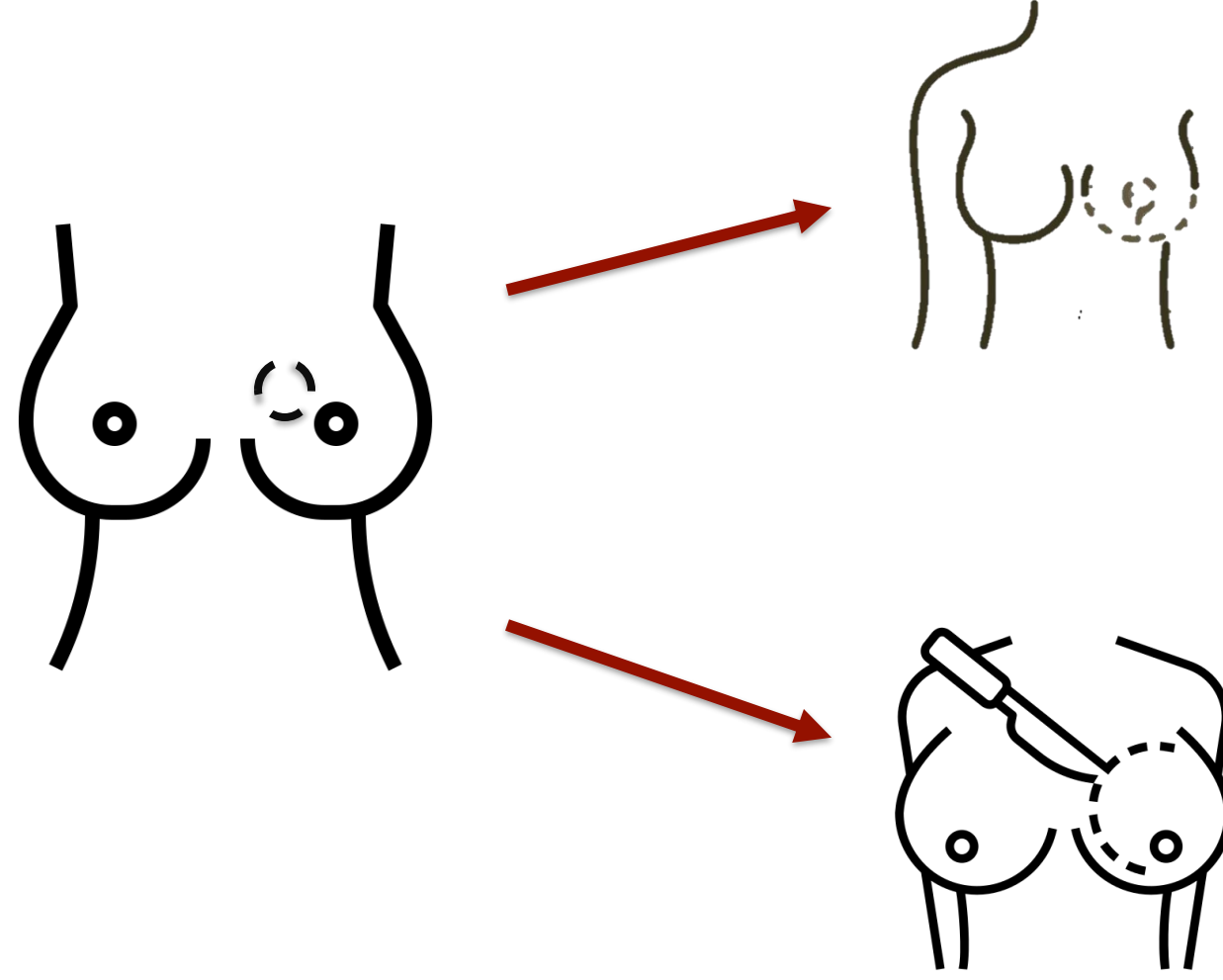
\$800K

Positive Margin Rate

Re-Excision Rate

Cost of Re-Excisions

Oncoplastic breast surgery represents a coordinated multi-disciplinary effort to restore the breast form concurrently with tumor excision.



AESTHETIC

- Skin and soft tissue rearrangement to replace volume
- Mastopexy/reduction for rebalancing and lift

ONCOLOGIC

- Wider resection margins?

Objective

To investigate whether oncoplastic breast surgery helps to achieve clear margin status better than lumpectomy alone in women with breast cancer.

Novelty

Prior literature on the topic is mixed. As such, investigating this topic at a center performing high volume oncoplastic breast surgery can help to provide guidance regarding the oncologic implications of this technique.

Methods

This study was a retrospective cohort investigation of women who underwent breast conserving therapy between 2010-2023 at our institution.

Study Cohorts:
Patients who received lumpectomy alone were compared to those who received oncoplastic breast surgery, after propensity score matching.

Primary Outcome:
The rate of re-excision of margins within the 6-month period following the index procedure was compared lumpectomy and oncoplastic cohorts.

BREAST CONSERVING THERAPY (2010-2023)

ONCOPLASTIC SURGERY

LUMPECTOMY ALONE

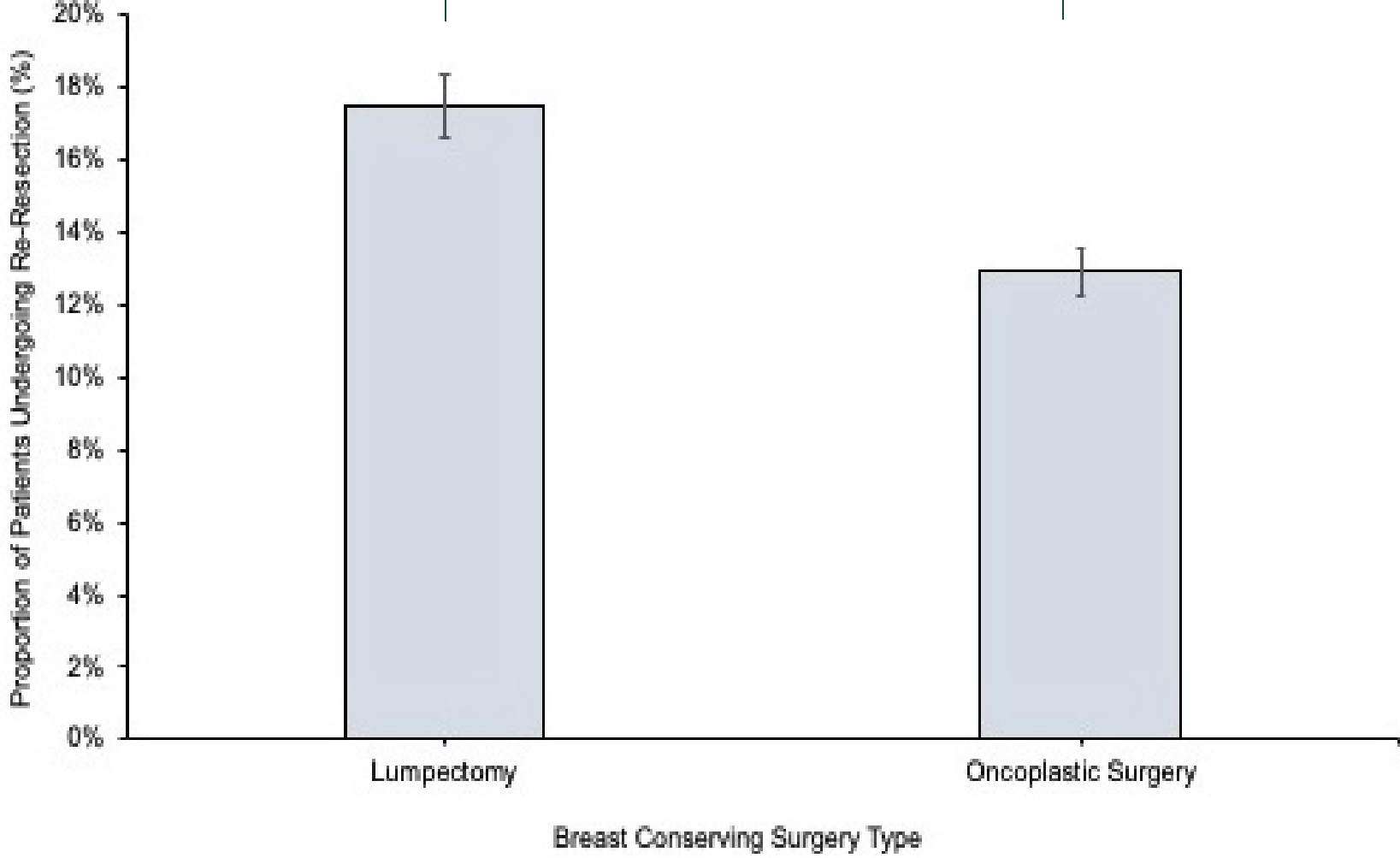
RE-EXCISION OF MARGINS WITHIN 6 MONTHS

Results

Study Cohort

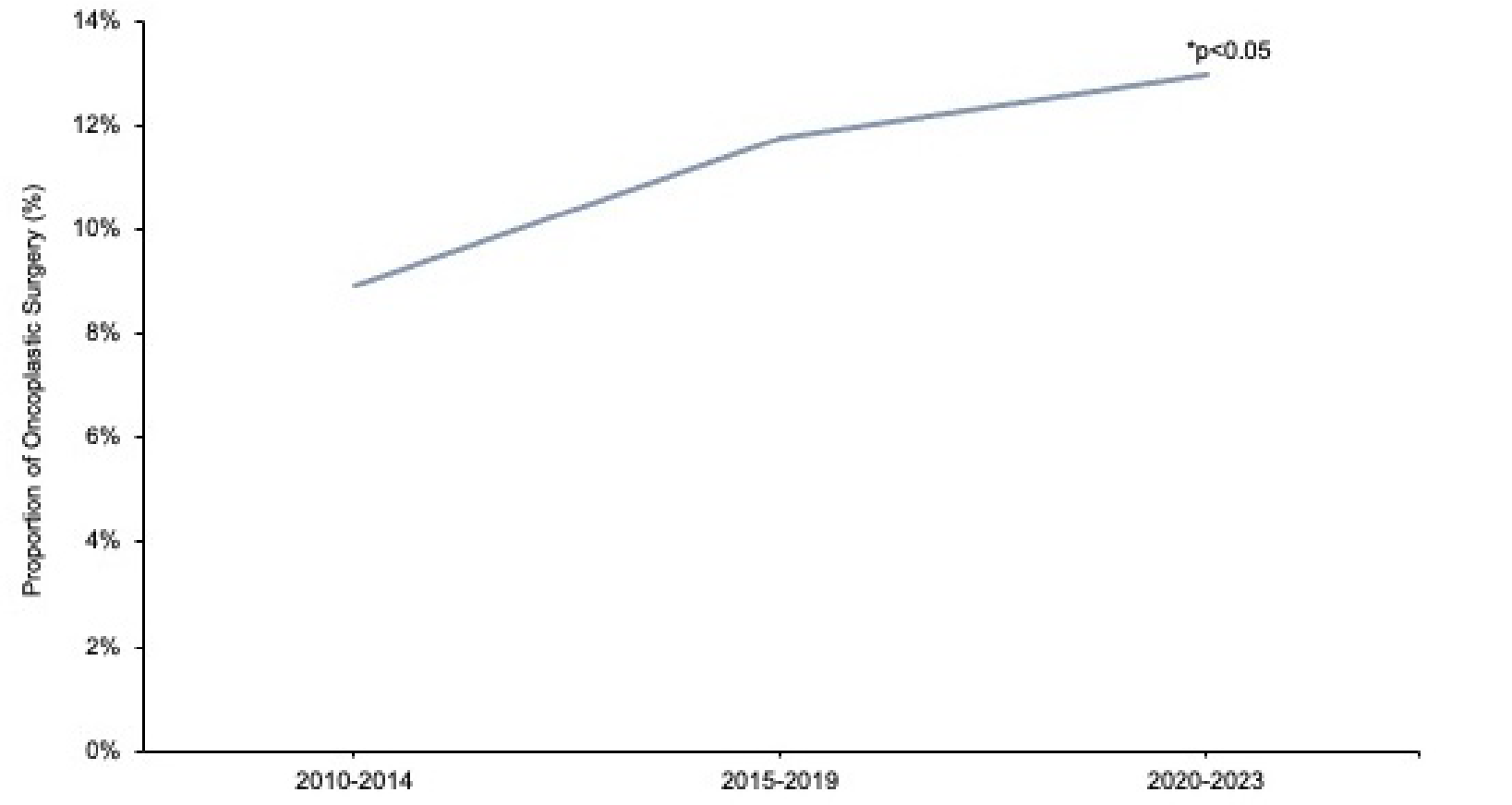
	Lumpectomy (N=488)	Oncoplastic Breast Surgery (N=488)	P value
Age – Mean (SD)	54.4 (12.4)	55.7 (11.2)	0.09
Race – n (%)			
White	374 (76.6%)	356 (73%)	0.1
Black	10 (2%)	24 (4.9%)	
Asian	48 (9.8%)	51 (10.5%)	
Other	56 (11.5%)	57 (11.7%)	
Hispanic– n (%)	51 (10.8%)	62 (12.7%)	0.3
Comorbidity Score – Mean (SD)	4.8 (2.8)	4.8 (2.7)	1.0
Follow Up Days – Mean (SD)	1755.5 (1187)	1759.7 (1072.5)	0.97

Study Outcomes – Re-Excision Rates



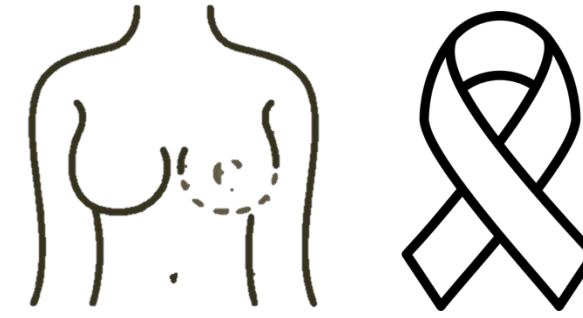
0.7

Adjusted Odds of Re-Excision in Oncoplastic cohort



Growing trend favoring oncoplastic surgery across study time period.

Conclusions



Oncoplastic surgery had significantly lower adjusted odds of margin re-excision, suggesting that this technique is superior to lumpectomy alone in achieving clear surgical margins.

Significance

Oncoplastic breast surgery can help to expand indications for breast conserving therapy.

Pearls for Re-Excision after Oncoplastic Approach:

» Clear marking and documentation of margins

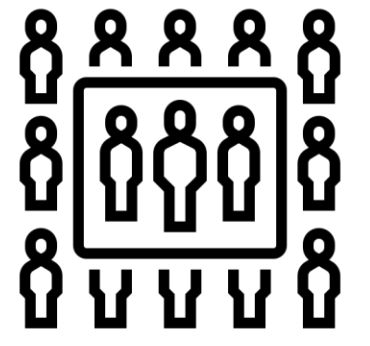
» Multi-disciplinary approach for re-excision

» Timely takeback for re-excision

Limitations

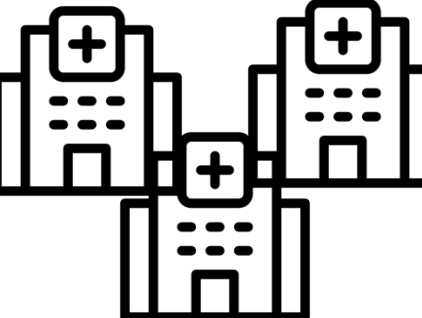


Single-institution study



Retrospective sample

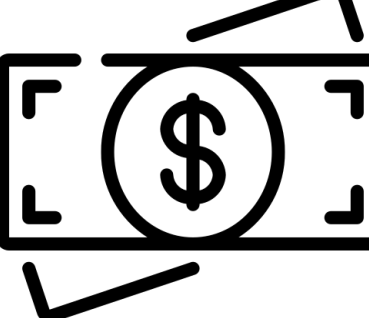
Next Steps



Multi-Center Data



QoL Outcomes



Cost Effectiveness

Acknowledgements

Thank you to the American Association of Plastic Surgeons and Stanford Plastic Surgery for your support of our work.