

Background

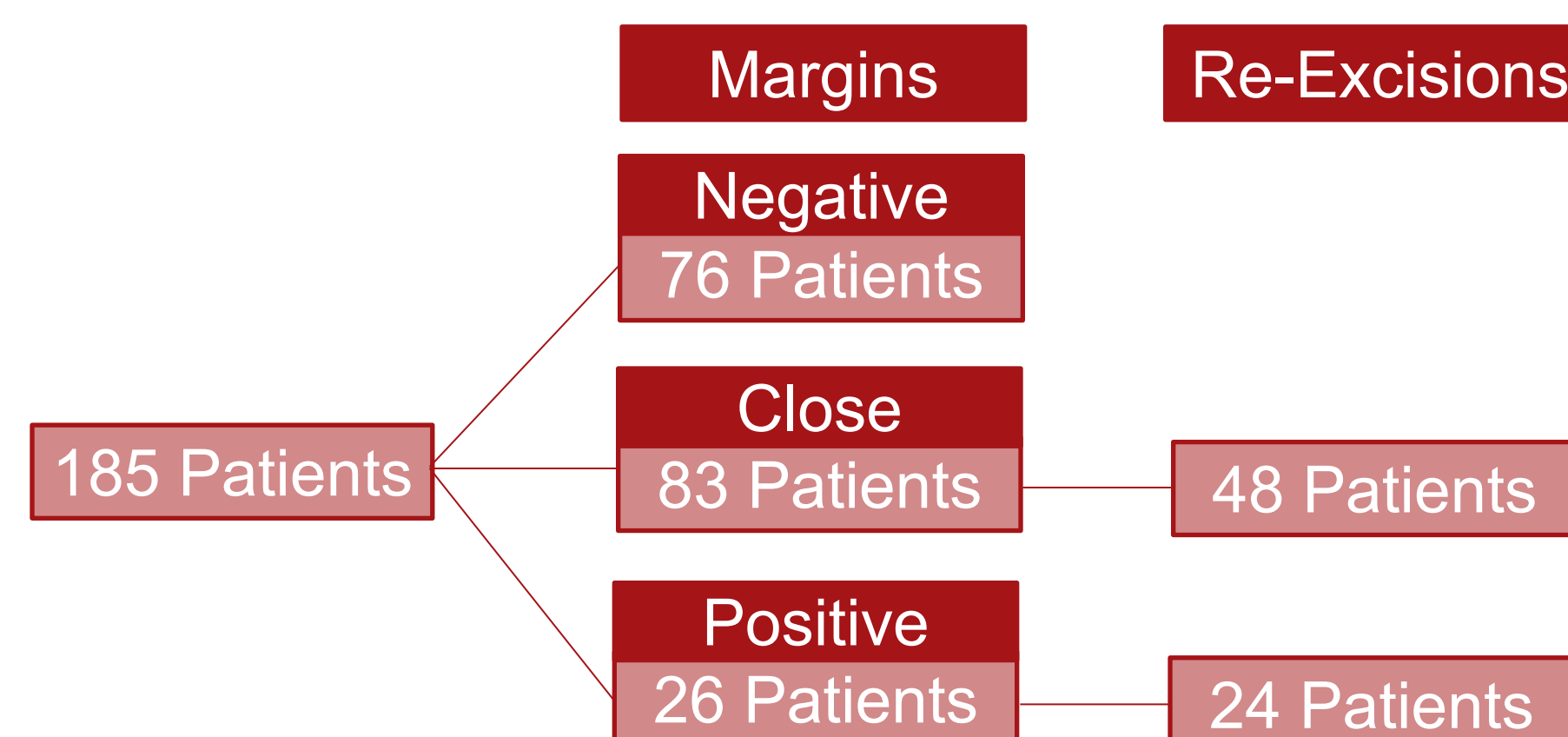
- Margin status remains an important component of breast conservation surgery (BCS)
- Margin width:
 - Most important predictor of local recurrence in DCIS¹
 - Less than 2 mm is associated with increased ipsilateral breast tumor recurrence in DCIS²
- 2016 SSO-ASTRO-ASCO consensus guidelines for BCS in DCIS recommends 2 mm as the standard for negative margins in DCIS³
- Aim: Evaluate the impact of the 2016 guidelines at our institution

Methods

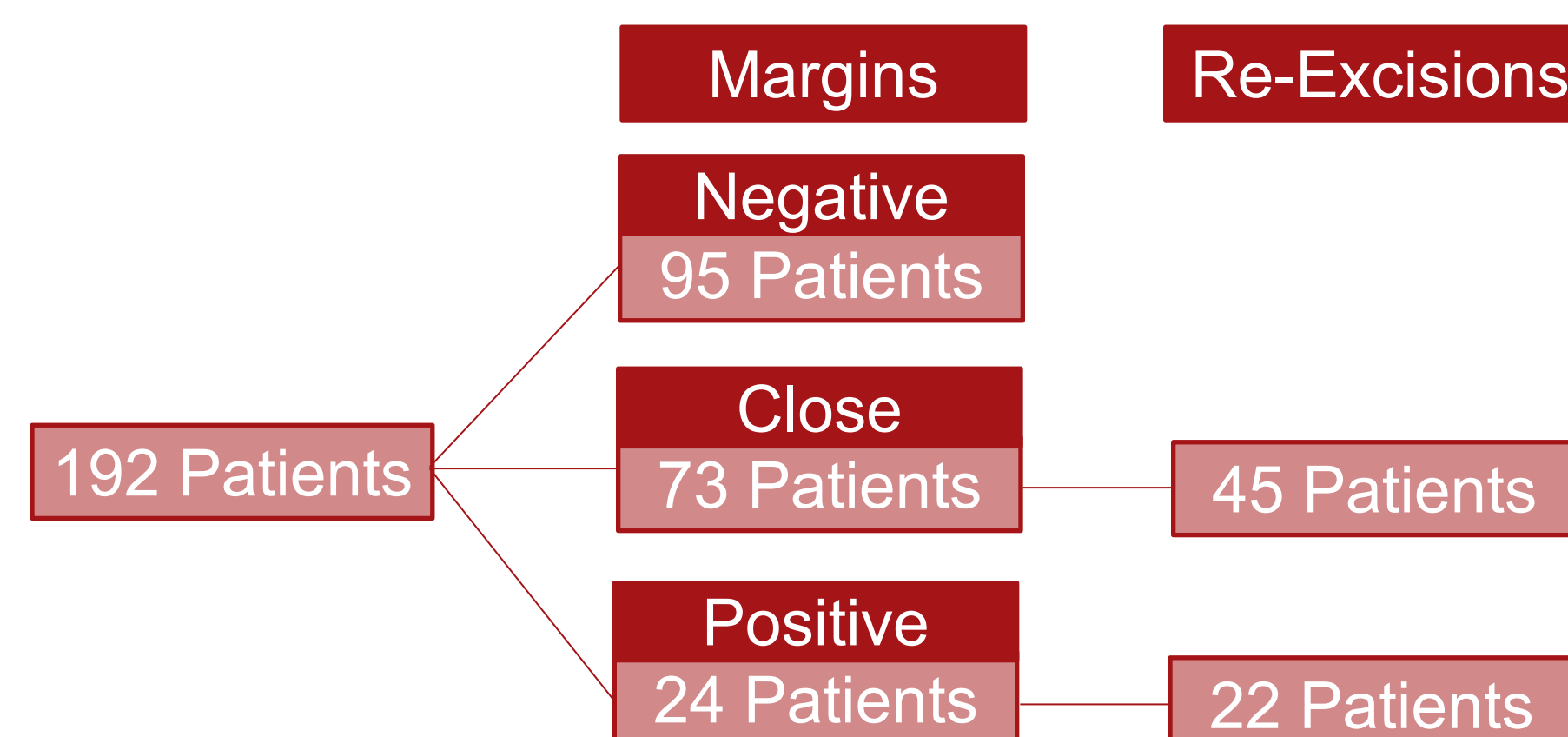
- All patients with pure DCIS undergoing BCS at Barnes Jewish Hospital/Siteman Cancer Center from September 2014 to August 2018
- Data examined:
 - Margin status
 - Re-excision rates
- Definitions:
 - Negative margin: ≥ 2 mm
 - Close margin: < 2 mm
 - Positive margin: ink on tumor
- Statistical analyses were performed using a Fisher's exact test for re-excision rates

Results

Primary BCS for DCIS from September 2014 to August 2016



Primary BCS for DCIS from September 2016 to August 2018



Re-excision Rates

	September 2014 – August 2016 n=185	September 2016 – August 2018 n=192	p-value
Overall	72/185 (38.9%)	67/192 (34.9%)	0.46
Of Close Margins	48/83 (57.8%)	45/73 (61.6%)	0.74
Of Positive Margins	24/26 (92.3%)	22/24 (91.7%)	1.0

Discussion

- Our re-excision rates did not change significantly during the 2 years before and after the publication of the SSO-ASTRO-ASCO guidelines
- Trends:
 - A larger proportion of patients with close margins underwent re-excision
 - Overall re-excision rate trended down
- Clinical judgement based on patient and tumor characteristics remains a factor when determining the need for re-excision in patients with close margins

References

1. Silverstein MJ, Lagios MD, Groshen S, et al. The influence of margin width on local control of ductal carcinoma in situ of the breast. *N Engl J Med.* 1999; 340:1455-6141.
2. Dunne C, Burke JP, Morrow M, Kell MR. Effect of margin status on local recurrence after breast conservation and radiation therapy for ductal carcinoma in situ. *J Clin Oncol.* 2009;27:1615-1620.
3. Morrow M, Van Zee KJ, Solin LJ, et al. Society of Surgical Oncology-American Society for Radiation Oncology-American Society of Clinical Oncology consensus guideline on margins for breast-conserving surgery with whole-breast irradiation in ductal carcinoma in situ. *Ann Surg Oncol.* 2016;23:3801-3810.