INTRODUCTION

• In 2014, SSO-ASTRO established margin guidelines: “no ink on tumour”1
• This has been the NSABP recommendation for decades2

OBJECTIVE

Determine the effect of the SSO-ASTRO margin guidelines on re-excision rates in an NSABP center

METHODS

• Retrospective analysis of a breast cancer surgery database
• Stage I & II invasive ductal carcinoma (IDC)
• Breast conserving surgery (BCS) as the first definitive treatment at a tertiary care institution
• Between March 2012 and April 2016
• Two groups: before and after guideline implementation
• Primary outcome: margins of re-excision

RESULTS

Table 1 – Cohort characteristics

| Variable | Baseline (n=491) | Before (n=270) | After (n=221) | p
|----------|-----------------|----------------|---------------|---------
| Age, years | 61.8 (13.0) | 62.3 (12.4) | 61.8 (13.0) | 0.04*
| Mean tumor size (SD), cm | 1.52 (0.83) | 1.52 (0.83) | 1.52 (0.83) | 0.003*
| Presence of DCIS | 51 (20.0) | 70 (25.9) | 70 (31.7) | 0.21
| Mass vs SLNB | 385 (78.4) | 205 (76.2) | 254 (52.2) | 0.04*
| Her2 + | 114 (47.1) | 70 (25.9) | 44 (9.0) | <0.001*
| PR + | 226 (83.7) | 114 (98.3) | 104 (47.1) | <0.001*
| Luminal B | 316 (64.2) | 182 (67.4) | 186 (84.2) | <0.001*
| ERα negative | 182 (67.4) | 104 (47.1) | 78 (35.2) | <0.001*
| Basal-like | 39 (8.5) | 22 (8.5) | 17 (7.7) | 0.71
| BRCA | 33 (6.6) | 19 (7.0) | 14 (6.3) | 0.70
| Family history | 44 (9.0) | 22 (8.5) | 22 (9.1) | 0.503
| Positive family history | 226 (83.7) | 114 (98.3) | 104 (47.1) | <0.001*
| Multivariate regression analysis for re-excision

CONCLUSION

• In an NSABP center, the SSO-ASTRO margin guidelines did not significantly impact re-excision rates.
• This may be attributed to the institution’s early adoption of the NSABP-06 recommendations on breast margins.

REFERENCES