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## Pediatric Pathology & Laboratory Medicine

Statement of the ProblemResults of the multicenter American College of Surgeons Oncology Group (ACOSOG) Z0011 trial published in 2011 showed that patients with early-stage breast cancer and limited sentinel lymph node (SLN) metastasi treated with breast conserving surgery and systemic therapy did not bene t from axillary lymph node dissection (ALND). e Z0011 trial was practice chaiccSi/,.9 .r the surgical maagement of breast cancer, and in turn, has proven to be equally impactful on the pathologic diagnosis of SLNBs. e purpose of this study is to demonstrate the impact of the Z0011 trial on intraoperative frozen section diagnosis of SLNBs.

Methodology & eoretical Orientation: is is a retrospective study reviewing pathology reports from patients with primay breast cancer who met Z0011 trial clinical criteria and were initially treated with lumpectomy and SLNB from 2009 to 2015.

Findings: SLNBs sent 9 .r frozen section diagnosis raed from 68% to 100% be9 .re Z0011 and declined to just 2% of case a er the Z0011 trial results were published in 2011. Of the post-Z0011 cases 19% had SLNs with metastasis and 97% of patie were spared ALND.

Conclusion & Signi cance:Following publication of the Z0011 trial results, intraoperative frozen section diagnosis of SLNs signi cantly decreased at our institution. Given that the vast majority of patients did not require second sur8.9 .ery 9 .r completion ALND, routine frozen section diagnosis 9 .r SLNB can be sa9 .ly avoided in patients who meet Z0011 criteria, sparing patients the proloned anesthesia time associated with waiting 9 ..1 (o)11.9 (r f)-9.9 (r)13 (o)6 (zen s)-8 (e)-5 (c)-7 (t)-4.9

diagnosis.