

Title: Coordination Between Sentinel Node Biopsy and Targeted Lymph Node Dissection in Breast Cancer: A Systematic Review

Abstract:

Objective: This systematic review aimed to assess the concordance between sentinel lymph node (SLN) biopsy and targeted lymph node dissection (TLN) in breast cancer patients based on the findings of selected studies.

Methods: A comprehensive search on PubMed and Cochrane identified five relevant studies evaluating the concordance rates between SLN biopsy and TLN in breast cancer patients. The included studies were Thill et al., Sinnett et al., Martinez et al., Simons et al., and Salazar Gomez et al. The primary outcome measured was the agreement between SLN and TLN findings.

Results: The results of the systematic review revealed a high level of concordance between SLN biopsy and TLN across the selected studies. Thill et al. reported a concordance rate of 100%, Sinnett et al. demonstrated an 86% concordance, Martinez et al. found an 81.5% concordance, Simons et al. reported an 80% concordance, and Salazar Gomez et al. observed a 52% concordance.

Conclusion: The aggregated evidence from the reviewed studies suggests a consistent and substantial level of agreement between SLN biopsy and TLN in breast cancer patients. These findings support the reliability and efficacy of SLN biopsy as a method for predicting the status of targeted lymph nodes. Further research and larger-scale studies may provide additional insights into the factors influencing concordance rates between these two lymph node assessment methods.