

DEBATES AND DIDACTICS in Hematology and Oncology



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Omission of Sentinel Lymph Node Biopsy in Breast Cancer: CON

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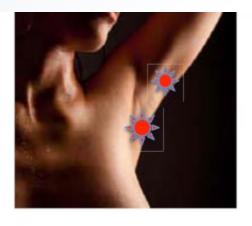
Disclosures

- Emory
- NRG Oncology
- NCI
- Pfizer
- Varian
- BioAscend
- MJH Life Sciences
- OncoHealth
- There will be no discussion of off-label drug or device use or references to proprietary technology

Morbidity of Surgical Evaluation of the Axilla



Lymphedema (10-15%)



Chronic Pain (5-10%)



Axillary Web Syndrome (30-50%)

Morbidity of Surgical Evaluation of the Axilla

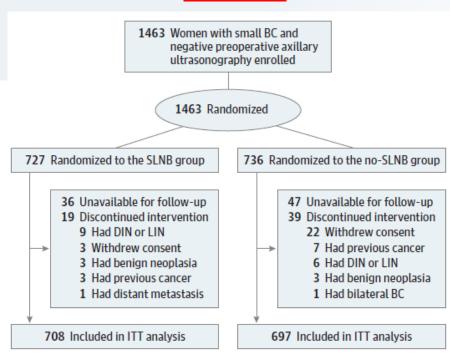


SOUND and **INSEMA** Trials

SOUND

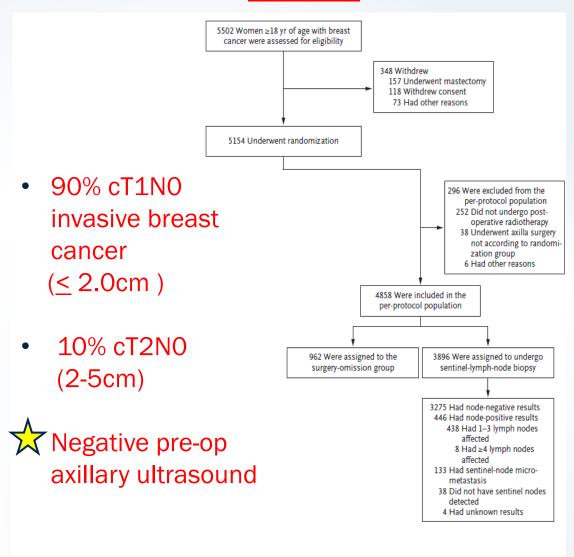
cT1N0
 invasive
 breast
 cancer
 (< 2.0cm)

Negative pre-op axillary ultrasound



BC indicates breast cancer; DIN, ductal intraepithelial neoplasia; ITT, intention to treat; LIN, lobular intraepithelial neoplasia; and SLNB, sentinel lymph node biopsy.

INSEMA



Gentilini et al., JAMA Oncology, 2023

Reimer et al., NEJM, 2024

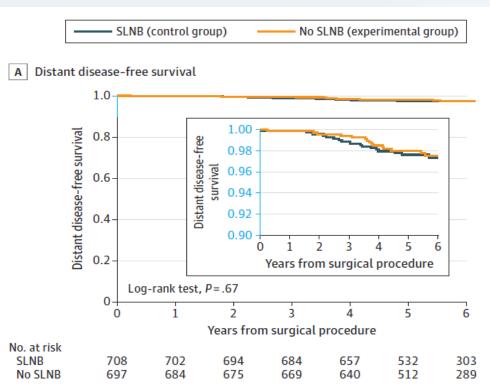
SOUND and **INSEMA** Patient, Tumor, and Treatment Characteristics

- ≥ 80% age 50 years or older
- ≥ 75% postmenopausal
- ≥ 80% pT1
- 85% pN0
- > 80% Gr1 or 2
- <u>></u> 87% HR+, Her2-
- 13-20% received chemotherapy
- > 90% received endocrine therapy
- > 98% received radiation (almost all WBI, ~10% received PBI on SOUND)

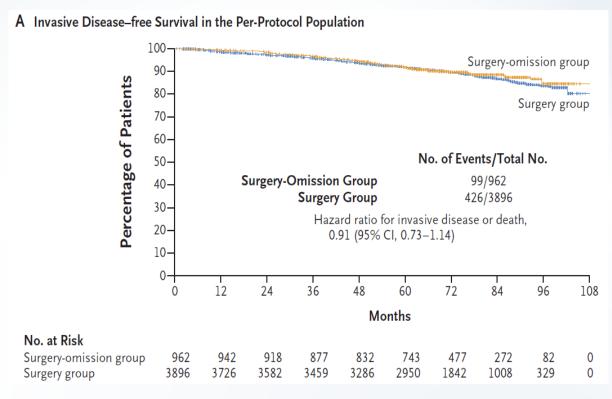
Reimer et al., NEJM, 2024; Gentilini et al., JAMA Oncology, 2023

Primary Endpoints

SOUND



INSEMA



No differences in OS

No differences in DFS or OS

No difference in axillary recurrence rates (~0.4% vs. 0.7%)

Gentilini et al., JAMA Oncology, 2023

Reimer et al., NEJM, 2024

2025 ASCO Guideline Update: Sentinel Lymph Node Biopsy in Early Stage Breast Cancer

Findings from multi-institutional trials in academic and community practice settings indicate that patients with low-risk breast cancer and negative nodal status (confirmed by pre-operative ultrasound) may safely forego sentinel nodal biopsy and avoid any axillary surgery if:

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Post-menopausal &
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Age >50 &

pT1 &

ER+/PR+/Her2-&

Gr 1 or 2 disease &

Receive radiation treatment &

Receive hormone therapy

Under-represented:

- Lobular
- TNBC
- HER2+
- Gr 3
- T2 tumors
- Mastectomy

Park et al., JCO, 2025

Systemic Therapy and Radiation Recommendations

- 85% of patients with a negative axillary ultrasound have tumors that are pNO
- Omission of SLNbx should not alter adjuvant systemic therapy or radiation recommendations in the appropriate patients who can safely forego SLNbx:
 - Post-menopausal &
 - Age >50 &
 - pT1 &
 - ER+/PR+/Her2- &
 - Gr 1 or 2 disease &
 - Receive radiation treatment &
 - Receive hormone therapy

Park et al., JCO, 2025

Systemic Therapy and Radiation Recommendations

- In patients with axillary ultrasound that is negative, 13-14.9% pN1 and 0.2-0.6% pN2
 - Systemic therapy decisions dependent upon genomic assay score (e.g., 21-Gene Recurrence Score) of primary tumor, except in premenopausal patient or those with pN2 disease
 - Radiation may be omitted in women >/= 65 yo with pT1NO HR+, HER2- breast cancer, adhered to endocrine therapy
 - cdk4/6 inhibitors, PARPi recommended in all patients with pN2 disease
 - Ribociclib recommended in patients with pT2, Gr3, node negative disease
 - PBI not administered in N+ breast cancer
 - RNI administered in N2 and some N1 breast cancers

Park et al., JCO, 2025

Patient Perspectives

- Most older women want to be treated like younger patients and receive SLNB
- Patients associate "peace of mind" with SLNB
- 15% of the time pre-operative axillary ultrasound gets it wrong
- SLNB has the potential to inform multidisciplinary care and appropriate adjuvant treatments

Thank you!