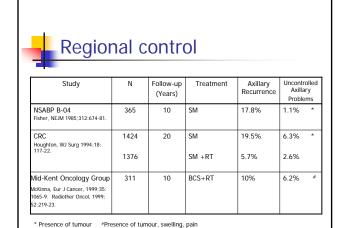


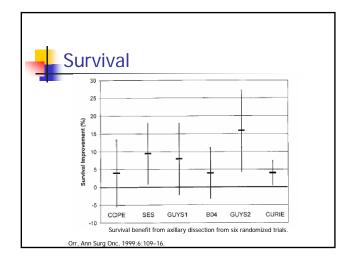


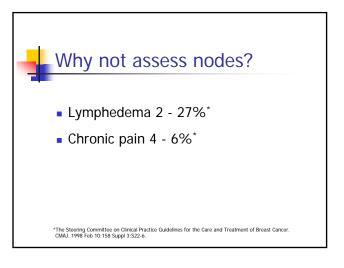
Guide adjuvant therapy

- 50% of adjuvant systemic therapy decisions need an AND*
- Post-mastectomy radiotherapy for node positive disease

*Olivotto, Cancer 1998;83:948-55.









Canadian Guidelines: AND

Removal and pathological examination of axillary lymph nodes should be standard procedure for patients with early, invasive breast cancer.

The Steering Committee on Clinical Practice Guidelines for the Care and Treatment of Breast Cancer. CMAJ. 1998 Feb 10;158 Suppl 3:S22-6.

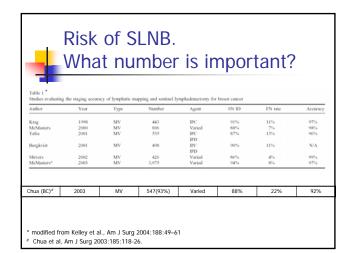


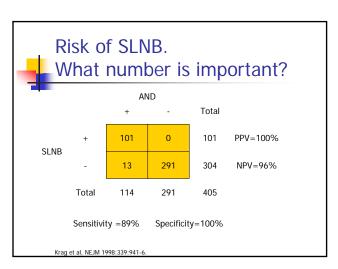
Canadian Guidelines: SLNB

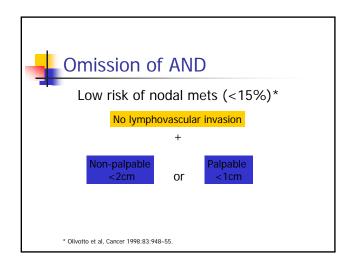
Axillary dissection is the standard of care for the surgical staging of operable breast cancer.

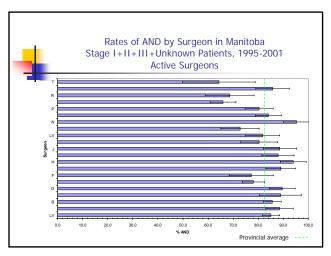
If a patient requests or is offered SLN biopsy, the benefits and risks as well as what is and is not known about the procedure should be outlined.

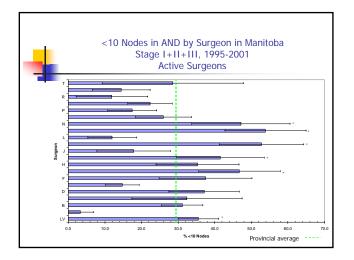
The Steering Committee on Clinical Practice Guidelines for the Care and Treatment of Breast Cancer CMAJ 2001;165(2):166-73

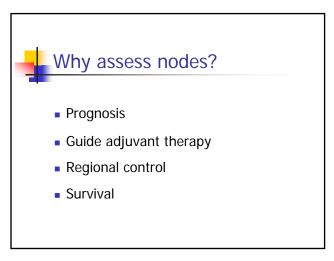














Indications for SLNB

 T1-2 adenocarcinoma with clinically negative axillary lymph nodes.



Contra-indications for SLNB

- Absence of experienced surgeon + team
- DCIS
- Prophylactic mastectomy
- Multifocal tumours
- Locally advanced cancerT3
 - Inflammatory
- Clinically palpable nodes
- Previous breast surgery
- Previous axillary surgery
- Previous breast radiation
- Pre-op chemotherapy
- Pregnancy
- Breast feeding
- Allergies



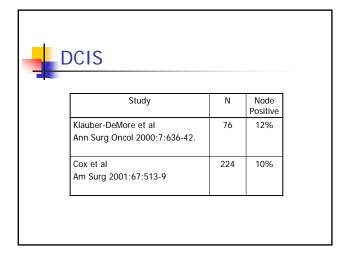
Absence of experienced surgeon + team

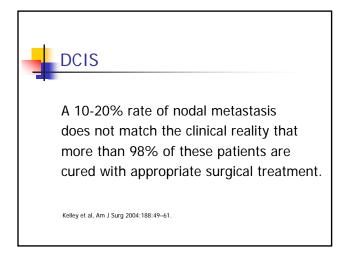
Surgeon experience is <u>the</u> most important factor in sentinel node identification.

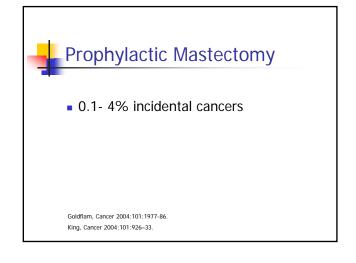


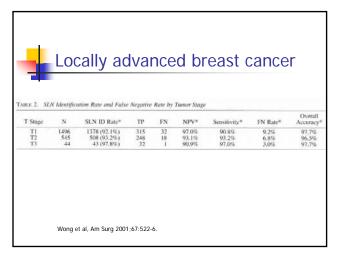
DCIS

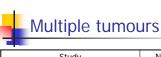
As 20% of core biopsies with DCIS will have invasive disease, when proceeding to mastectomy consider SLNB.











Study	N	Node Positive	SLN ID Rate	FN Rate
Layeeque et al, Am J Surg 2003;186:730-5.	40	63%	100%	0%
Tousimis et al, J Am Coll Surg. 2003;197:529-35.	70	54%	100%	8%
ALMANAC Trialists Group EJSO 2004;30:475–479.	75	45%	94.7%	8.8%



Clinically palpable nodes

- Common contra-indication
- Up to 30% false positive rate
- FNA node?



Previous breast surgery

Breast Implants

- N=11
- Identification 100%
- False negative rate 0%.

Other Breast Surgeries

Is AND appropriate?

Gray et al Am J Surg 2004; 188:122-5.



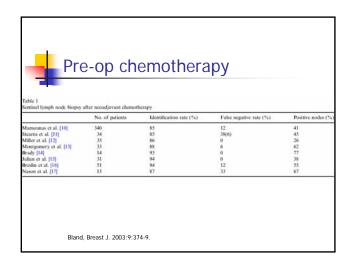
Previous axillary surgery

■ N=32

Recurrence SLNB/AND	69%
Recent failed SLNB/AND	22%
Unrelated axillary surgery	9%

- 75% identification
- 13% positivity

Gray et al Am J Surg 2004; 188:122-5.





Summary

- Axillary assessment in breast cancer <u>at diagnosis</u> is important for prognosis and adjuvant therapy decisions. It has little benefit in regional control and a possible small survival advantage.
- SLNB has minimal risks relative to AND.



Summary Contra-indications ✓ for SLNB

- ✓ Absence of experienced surgeon + team
- ✓ DCIS
- ✓ Prophylactic mastectomy
- Multifocal tumours
- Locally advanced cancer
 - T3
 - ✓ Inflammatory
- Clinically palpable nodes
- Previous breast surgery
- Previous axillary surgery
- Previous breast radiation
- Pre-op chemotherapy
- Pregnancy
- Breast feeding
- ✓ Allergies

