

**Breast Cancer Surgery in Canada:
What Do We Need to do and Document?**

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Vancouver, November 2009

Disclosures

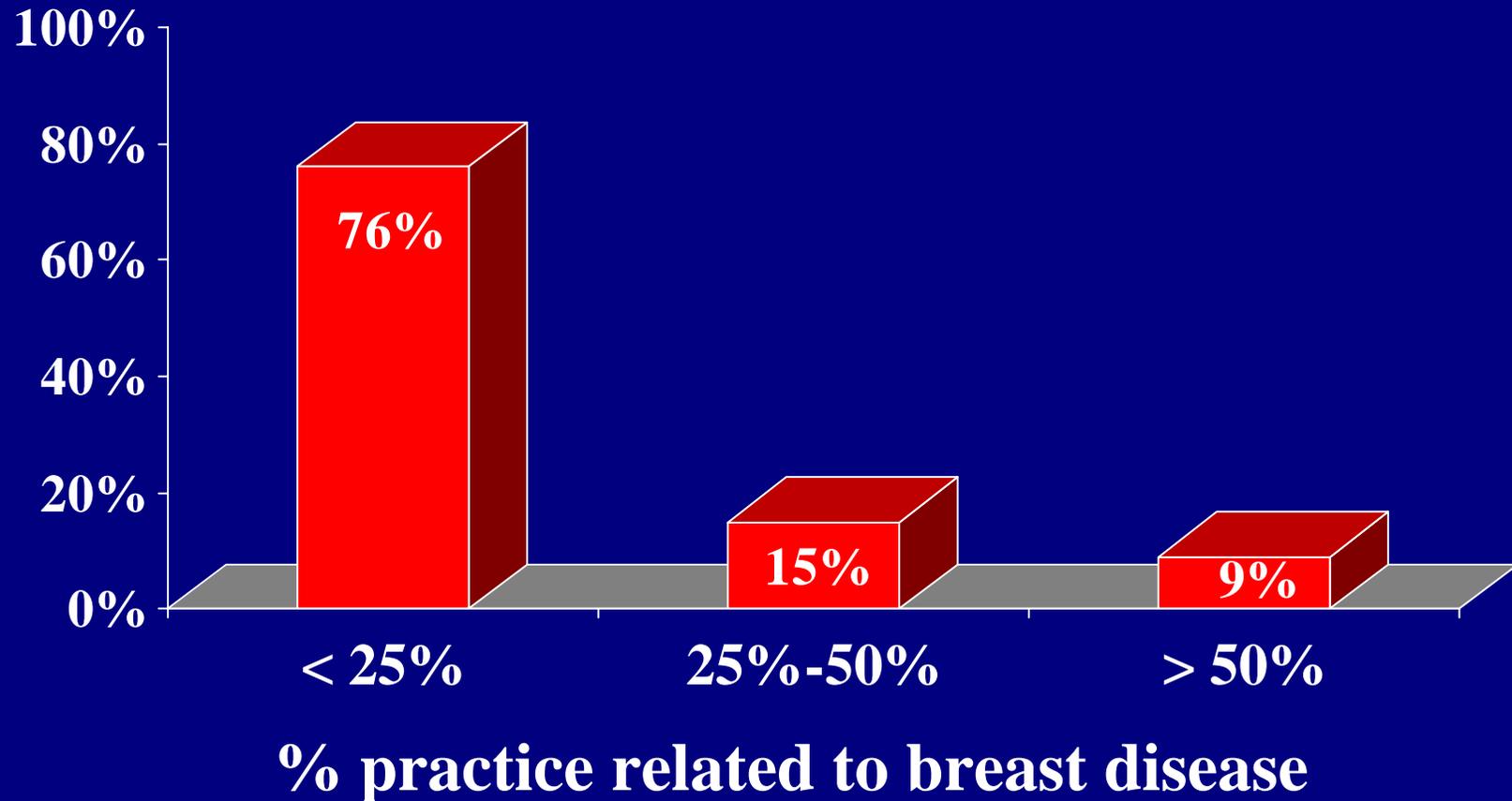
- None

Outline

- Breast cancer surgery in Canada – current status
- Synoptic reporting
 - Pathology
 - Surgery
- Synoptic Reporting Tools Project (SRTP)
- Conclusions

Breast Cancer Surgery in Canada

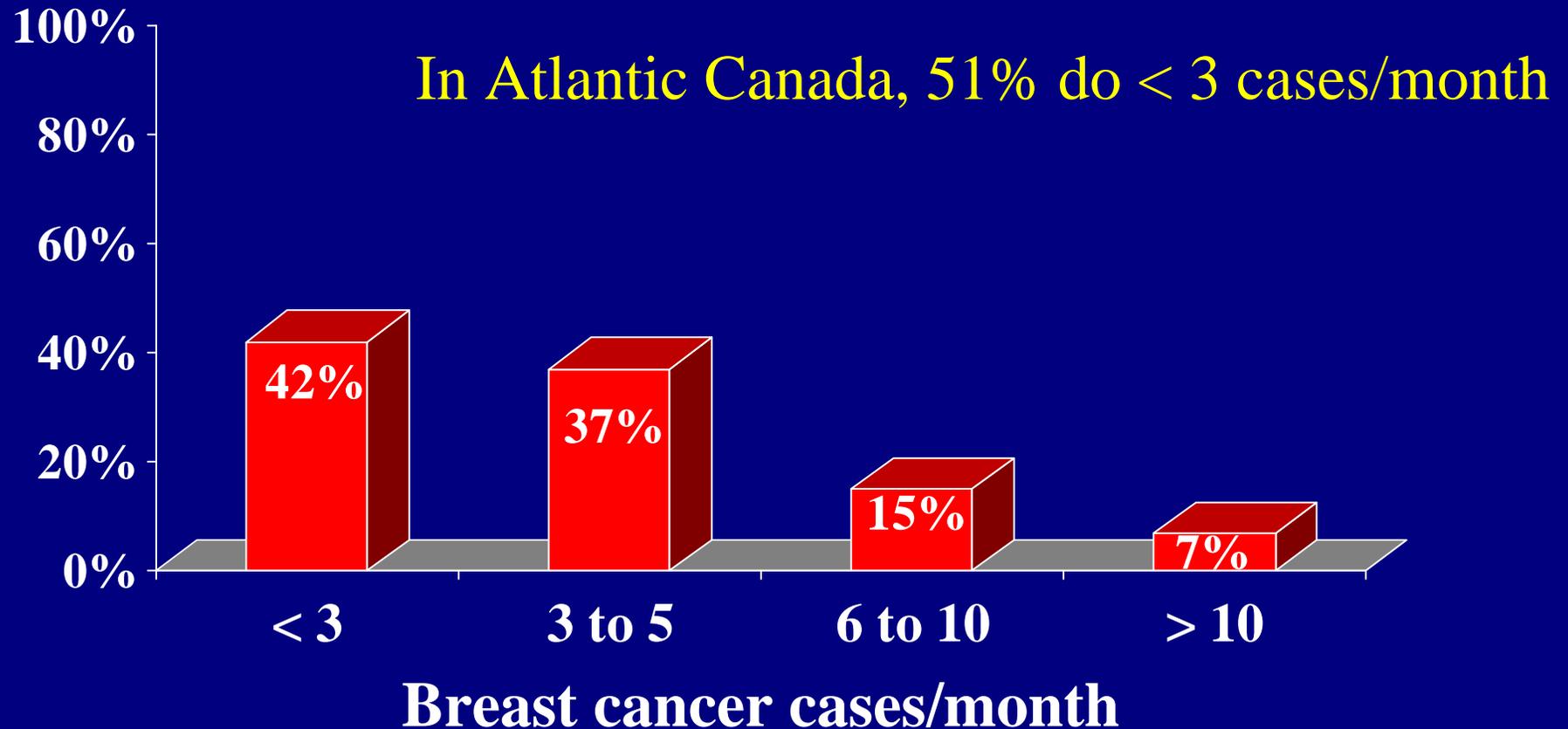
N=519 surgeons



Porter and MacMulkin, World J Surg 2004

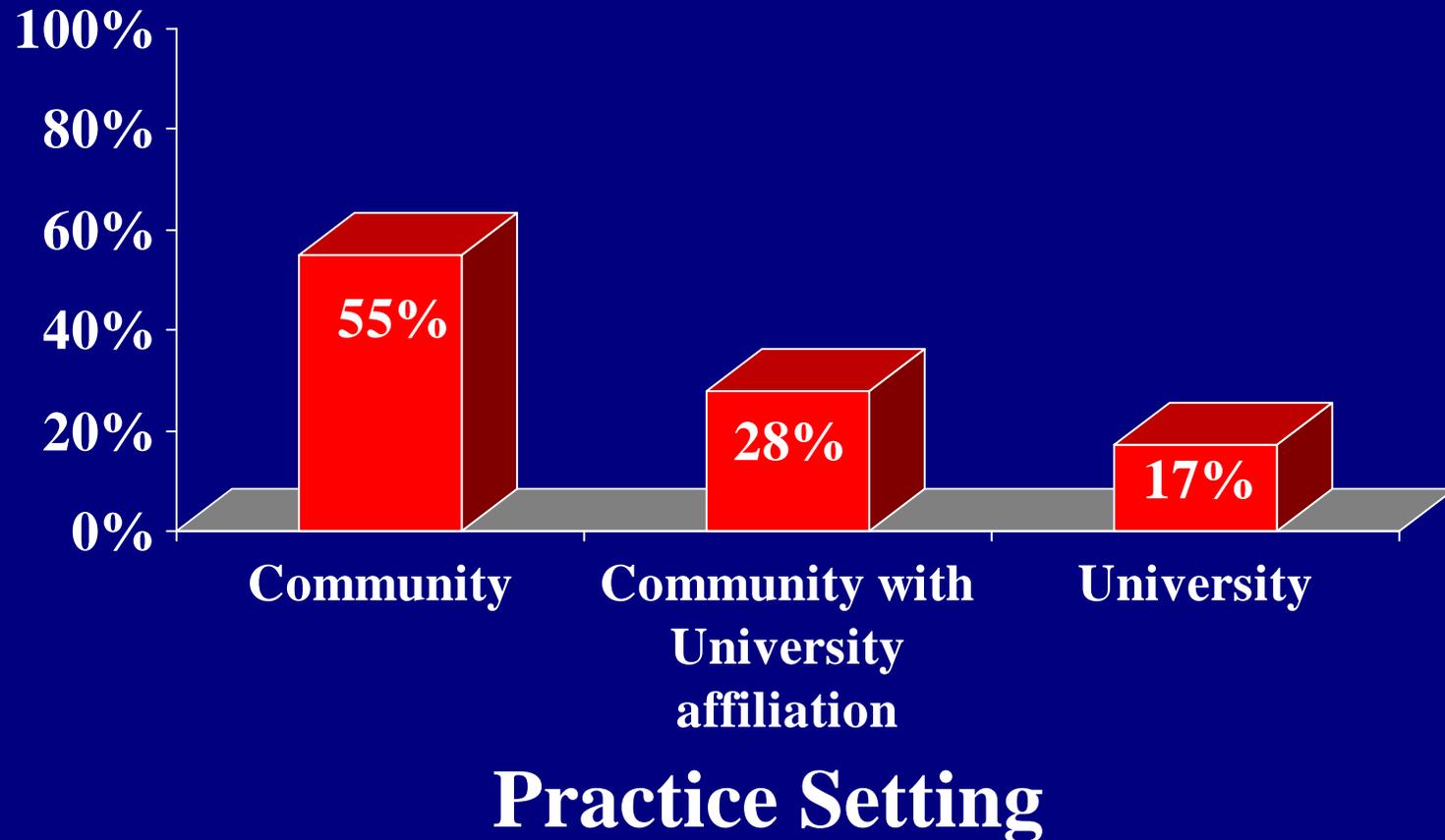
Breast Cancer Surgery in Canada

N=519 surgeons



Breast Cancer Surgery in Canada

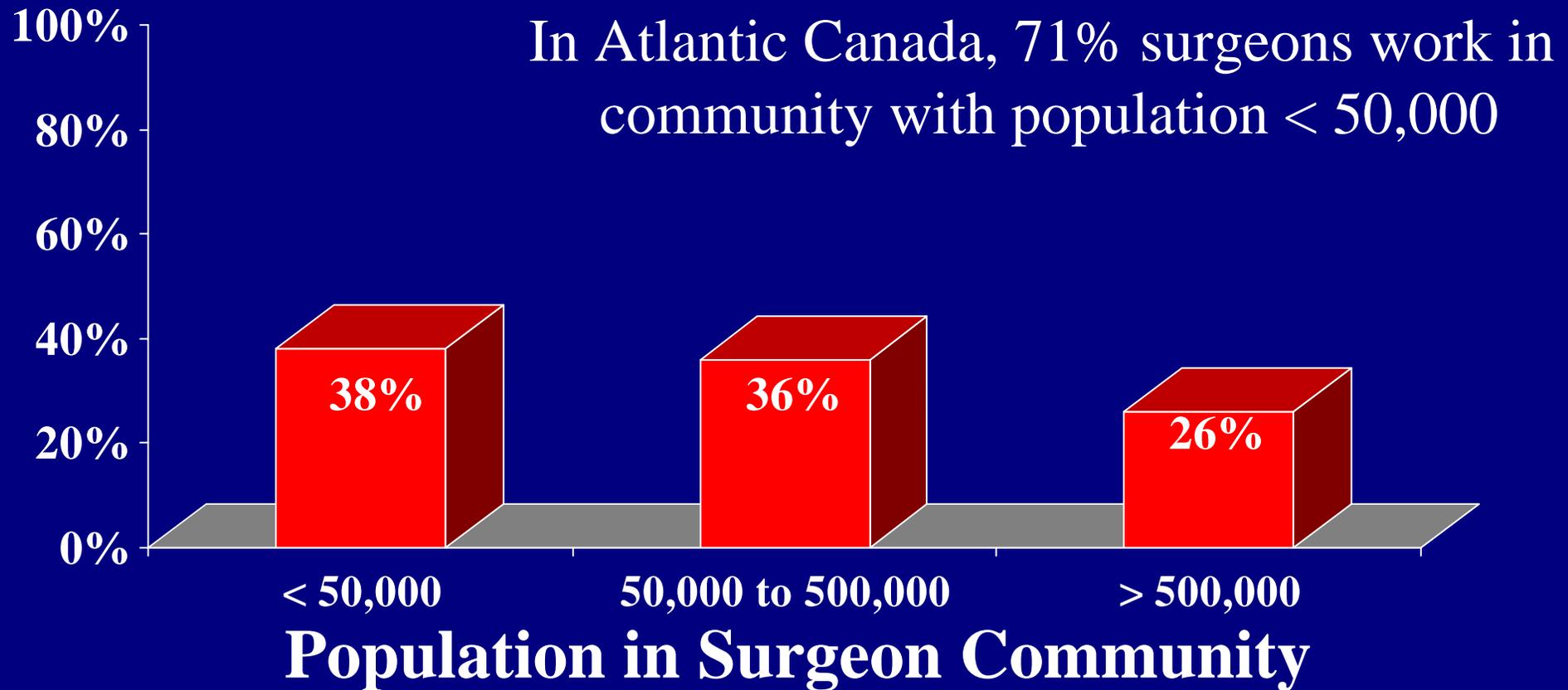
N=519 surgeons



Porter and MacMulkin, World J Surg 2004

Breast Cancer Surgery in Canada

N=519 surgeons



SLN Biopsy in Breast Ca – Fad or Fruit?

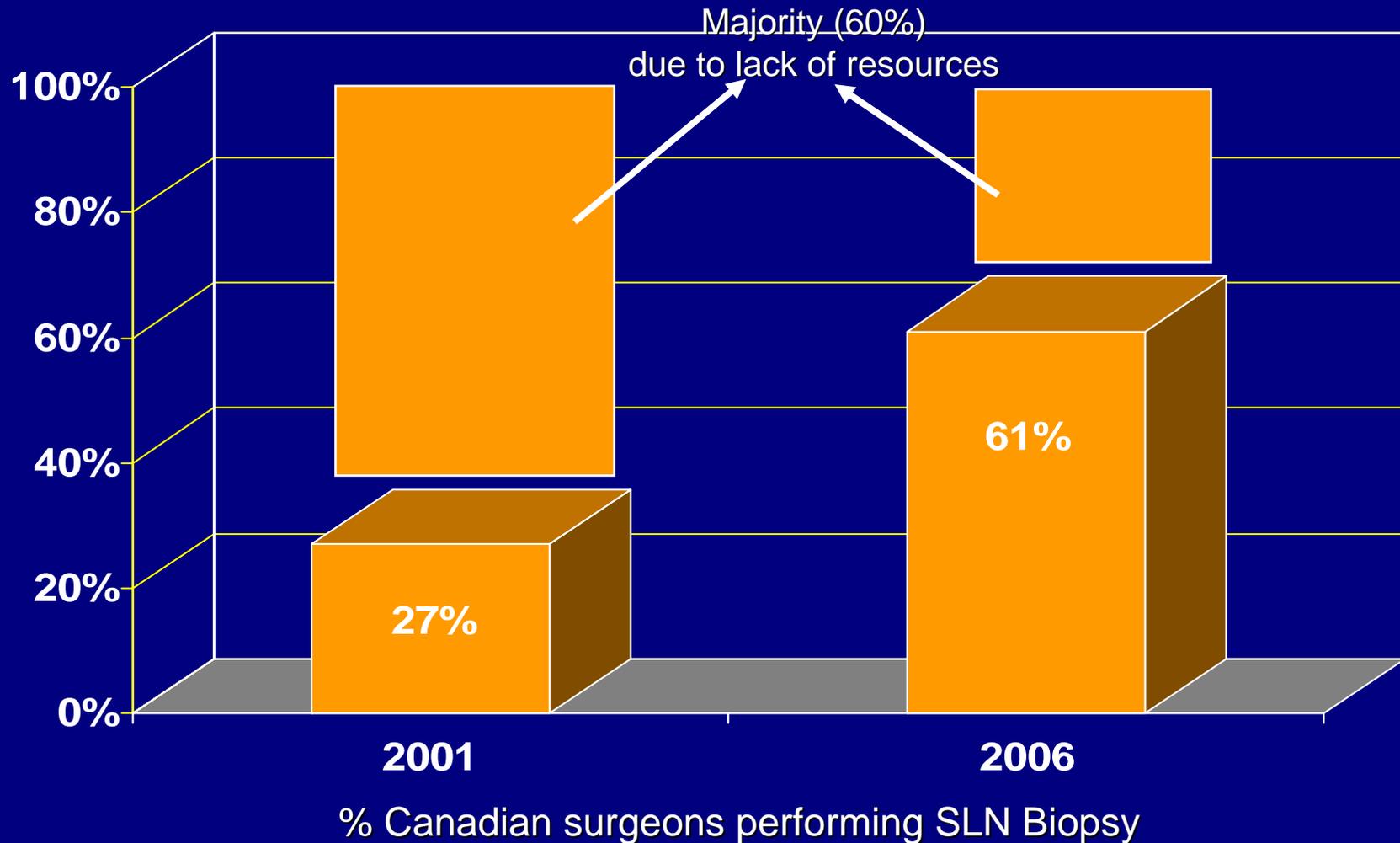
- Axillary node sampling
- High dose chemo and BM transplant

or

- Breast conserving surgery
- Hormonal therapy



Breast Cancer Surgery in Canada: Uptake of SLN Biopsy



Porter et al. Annals Surg Oncol 2004; Quan et al. Breast J 2008

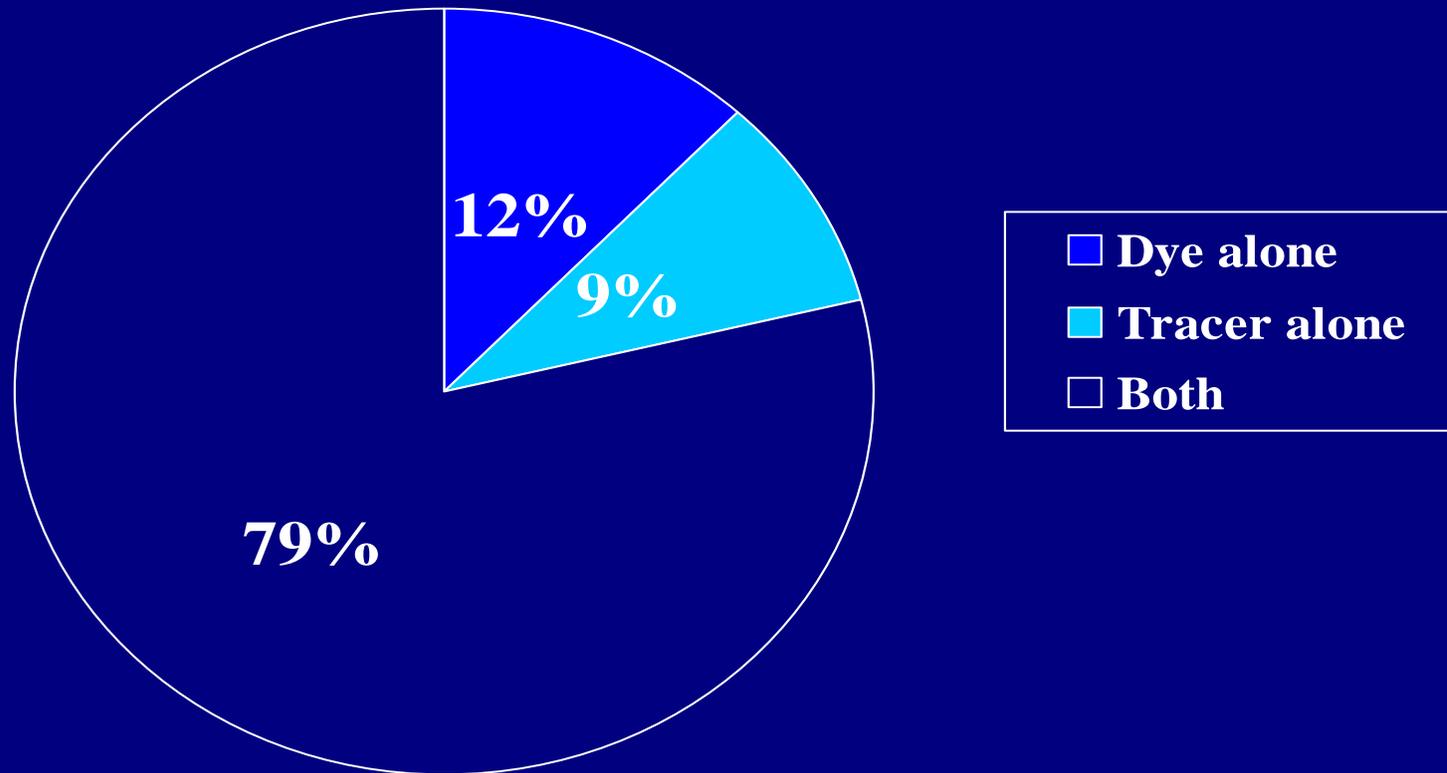
Surgeons **Not** Performing SLN Bx

N=381

- Reasons for not performing SLN Bx:
 1. Lack of adequate resources (64%)
 2. Insufficient evidence for SLN Bx (29%)
 3. Lack of comfort with technique of SLN Bx (22%)

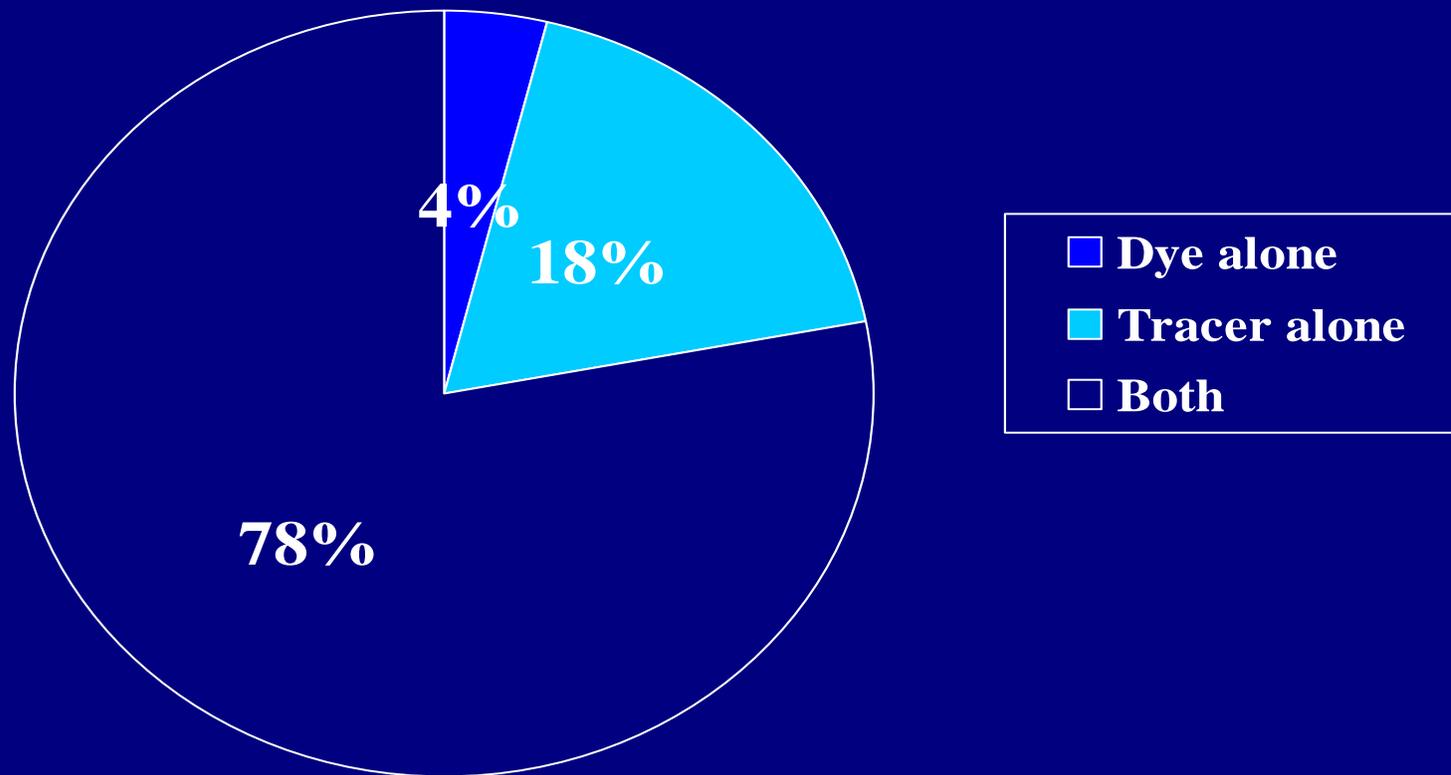
SLN Bx Technique in 2001

N=138



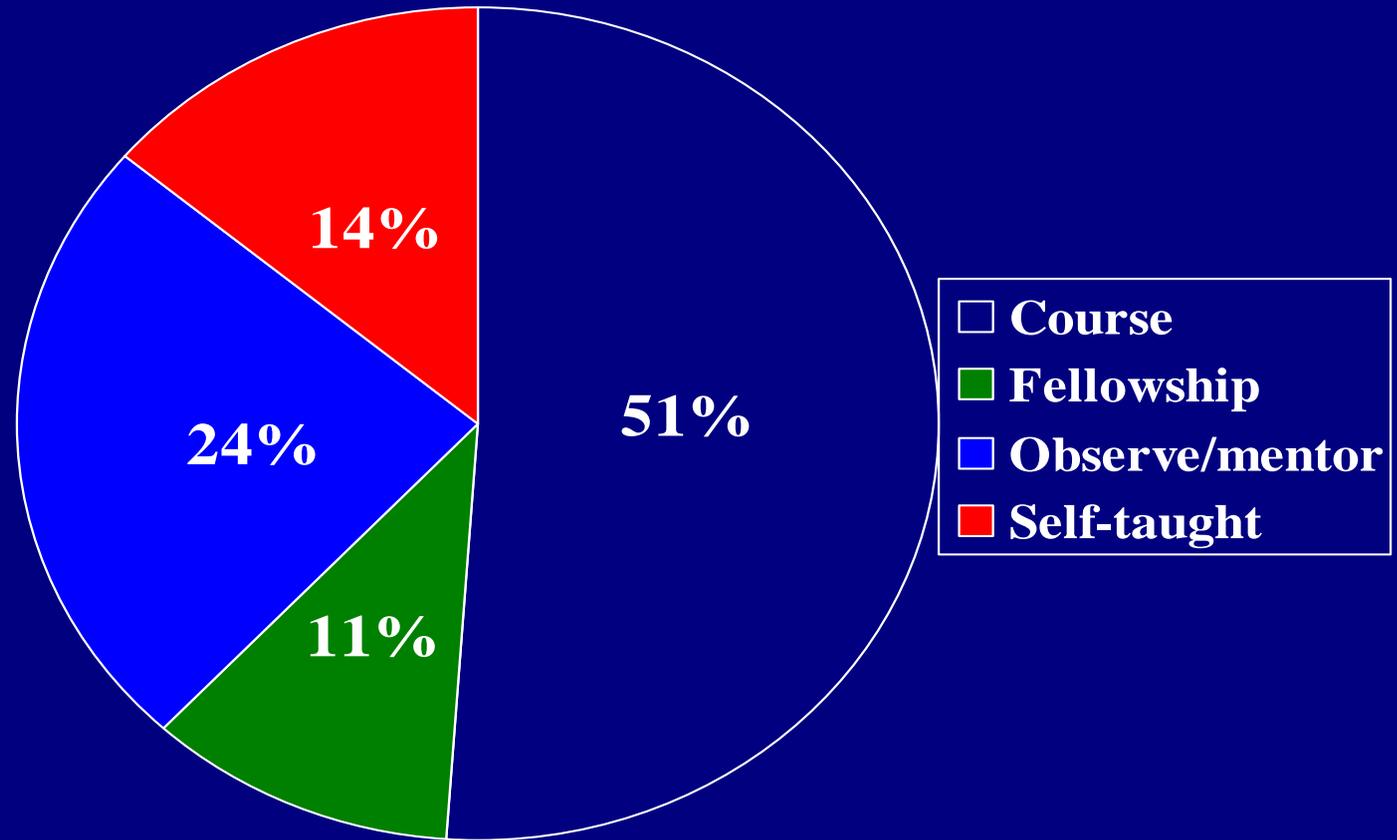
SLN Bx Technique in 2006

N=306



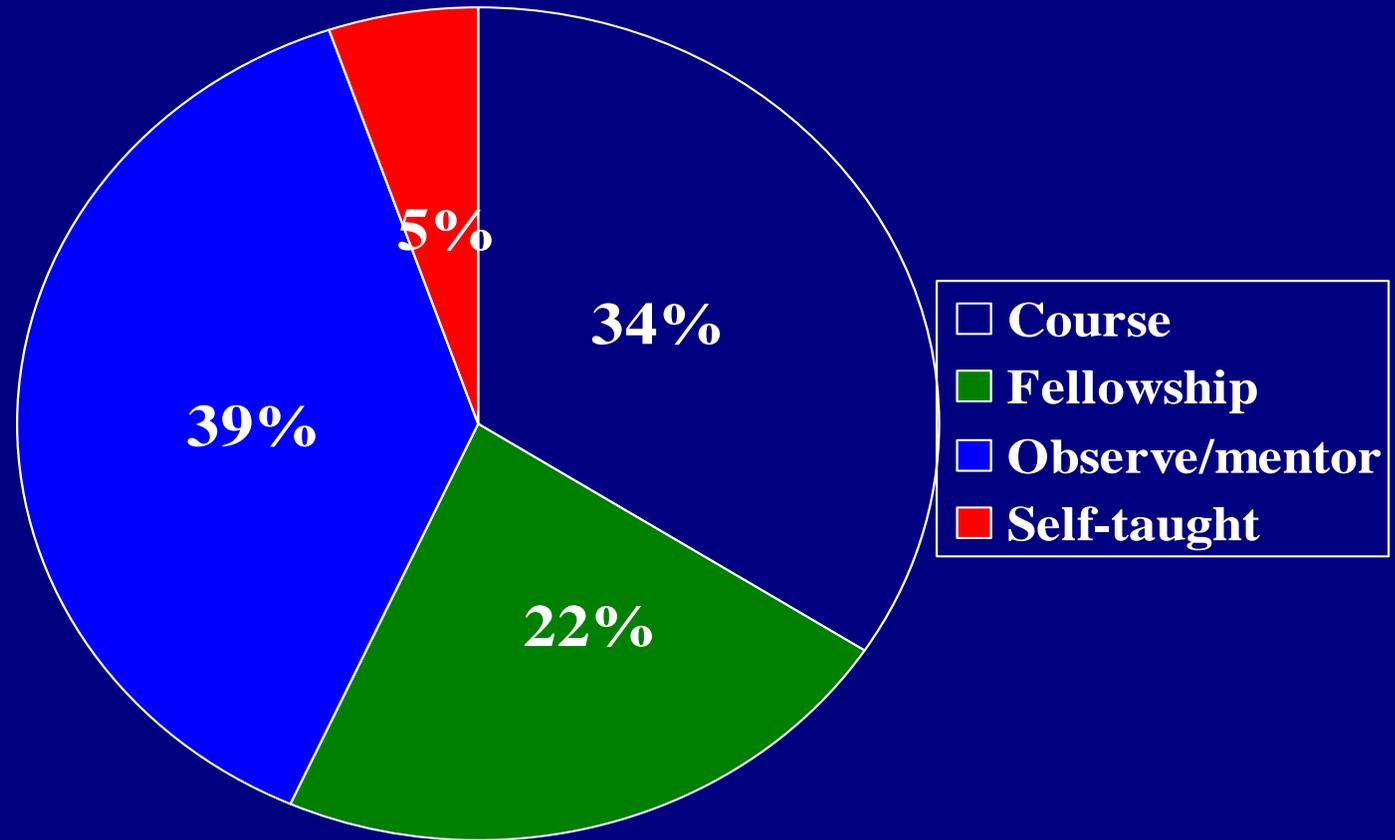
Method Of Learning SLN Bx

N=138

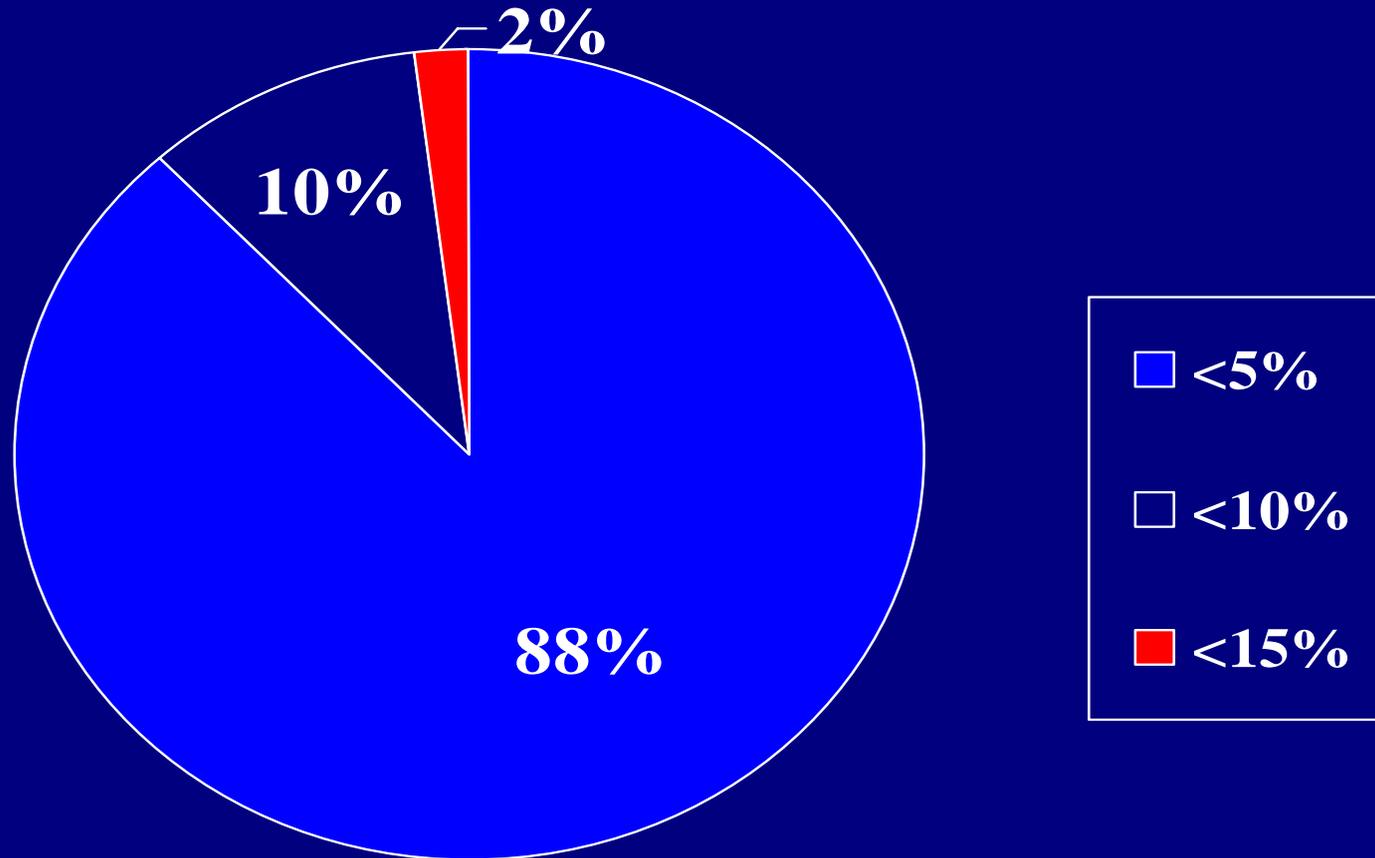


Porter and MacMulkin, Ann Surg Onc 2003

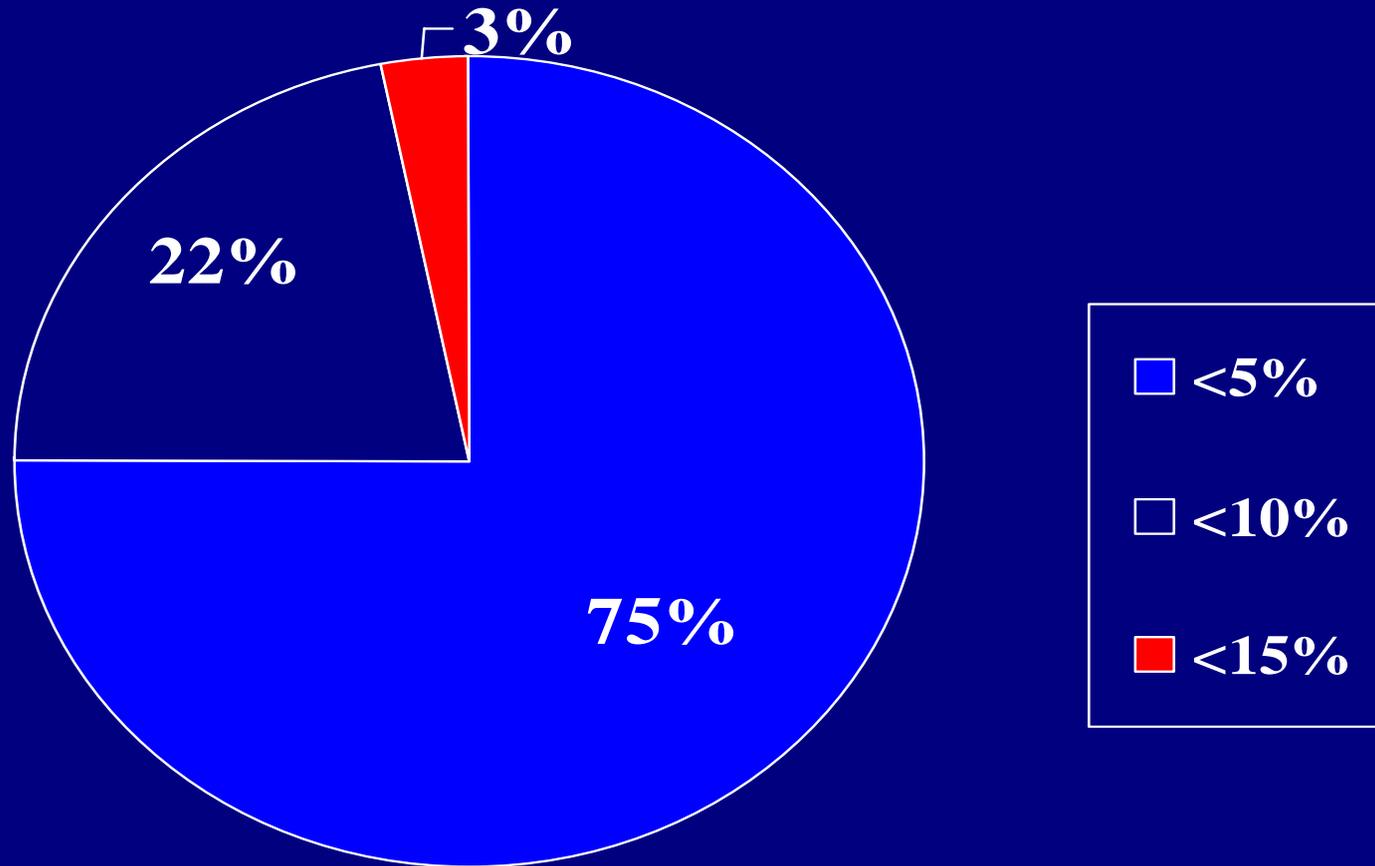
Method Of Learning SLN Bx in 2006 (N=138)



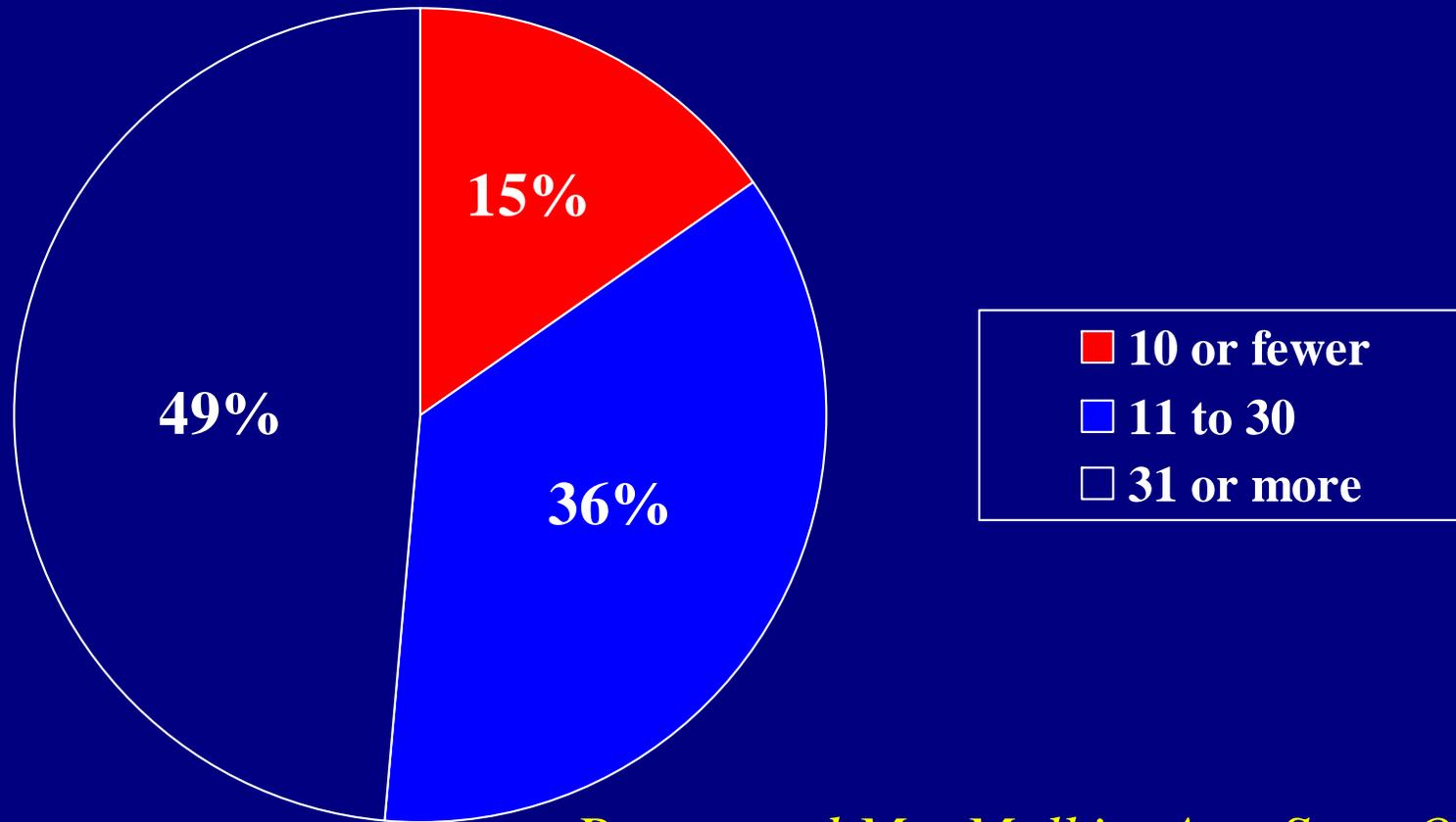
Highest Acceptable False Negative Rate in 2001 (N=138)



Highest Acceptable False Negative Rate in 2006 (N=306)

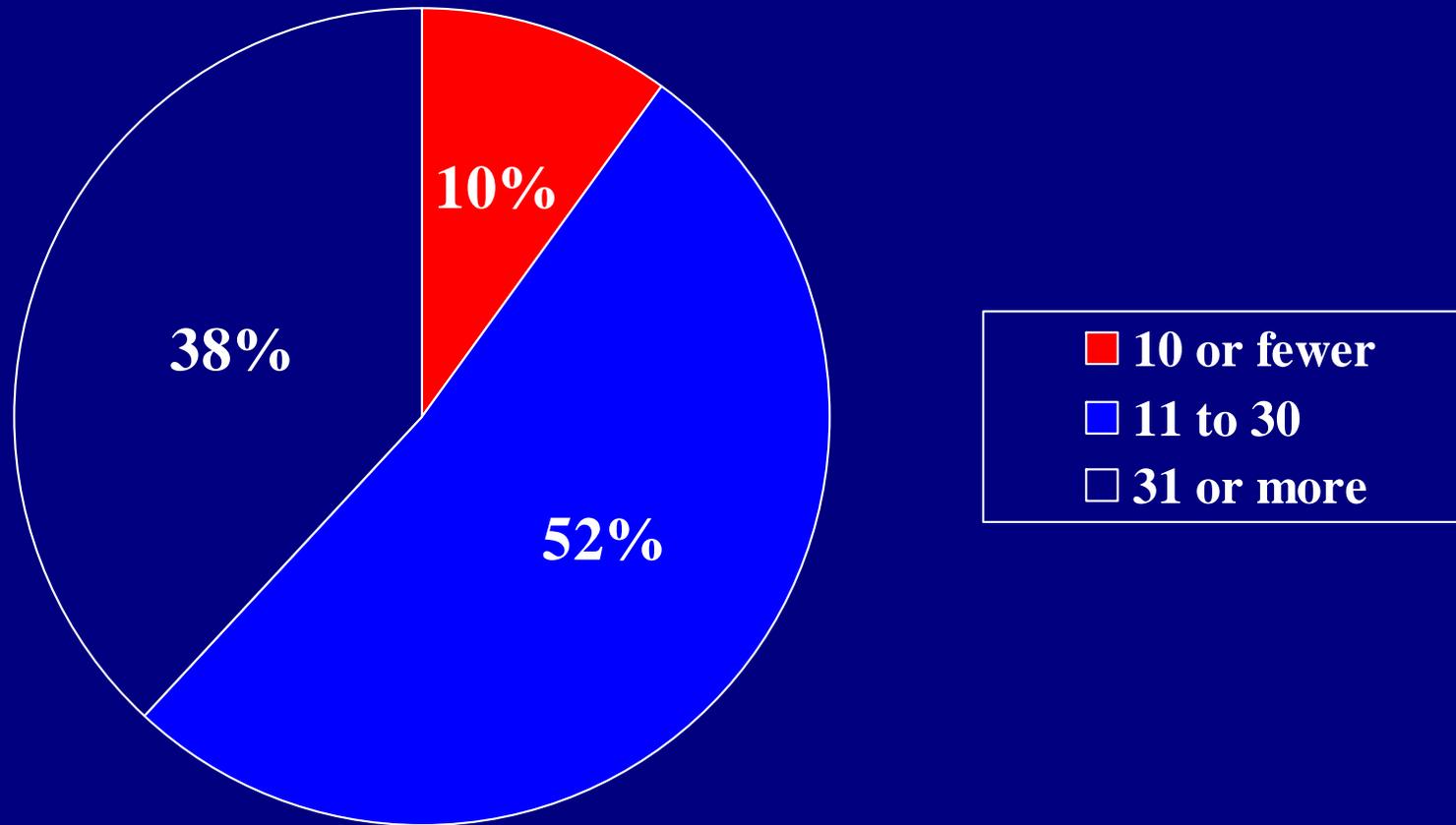


Number of Concurrent SLN Bx & ALND Before Abandonment ALND in 2001



Porter and MacMulkin, Ann Surg Onc 2003

Number of Concurrent SLN Bx & ALND Before Abandonment ALND in 2006



Breast Cancer Surgery in Canada

More Data

- Among surgeons treating breast cancer:
 - 57% have immediate breast reconstruction available at their institution
 - 79% felt “most general surgeons” should perform breast cancer surgery
 - 71% are satisfied with proportion of practice related to breast disease

Porter and MacMulkin, World J Surg 2004

Breast Cancer Surgery in Canada

- We are thoughtful adopters
- Resources are an important issue
 - Particularly services/resources outside domain of the general surgeon
- “Ripe” for some interprovincial initiatives

Outline

- Breast cancer surgery in Canada – current status
- Synoptic reporting
 - Pathology
 - Surgery
- Synoptic Reporting Tools Project (SRTP)
- Conclusions

What is Synoptic Reporting?

- Standardized process to capture data according to predetermined variables and definitions
- Can be text based or digital

Synoptic Reporting

Why?

- Commonly-cited benefits
 - Improves content and completeness of reports → Most data
 - Reduces risk of misinterpretation of findings
 - Improves communications among health care professionals
 - Increase efficiency/decrease cost of report creation/distribution

What are Known Benefits of Synoptic Reporting? Pathology

- Narrative breast cancer reporting (n=120)
 - 100% histologic type
 - 90% size
 - 90% grade
 - 25% margins oriented properly
 - 47% lymphovascular invasion
- Clear room for improvement

What are Known Benefits of Synoptic Reporting? Pathology

- Implement computerized pathology reporting (cluster) randomized trial (n=2042 reports)
 - 28.4% (95% CI 15.7%-41.2%) increase in complete reports for registry purposes
 - 24.5% (95% CI 11.0%-38.0%) increase in complete reports for patient management
 - Acceptable to pathologists, preferred by clinicians

What are Known Benefits of Synoptic Reporting?

Surgery

- Non-randomized comparison of narrative vs. web-based synoptic report (WebSMR) for rectal cancer surgery
 - Overall complete specified data elements increased with synoptic report (99% vs. 45.9%; $p < 0.001$)
 - Particular components wider difference e.g. preoperative treatment, comorbidity, metastatic/local tumor assessment
 - Mean time to complete report = 6 minutes

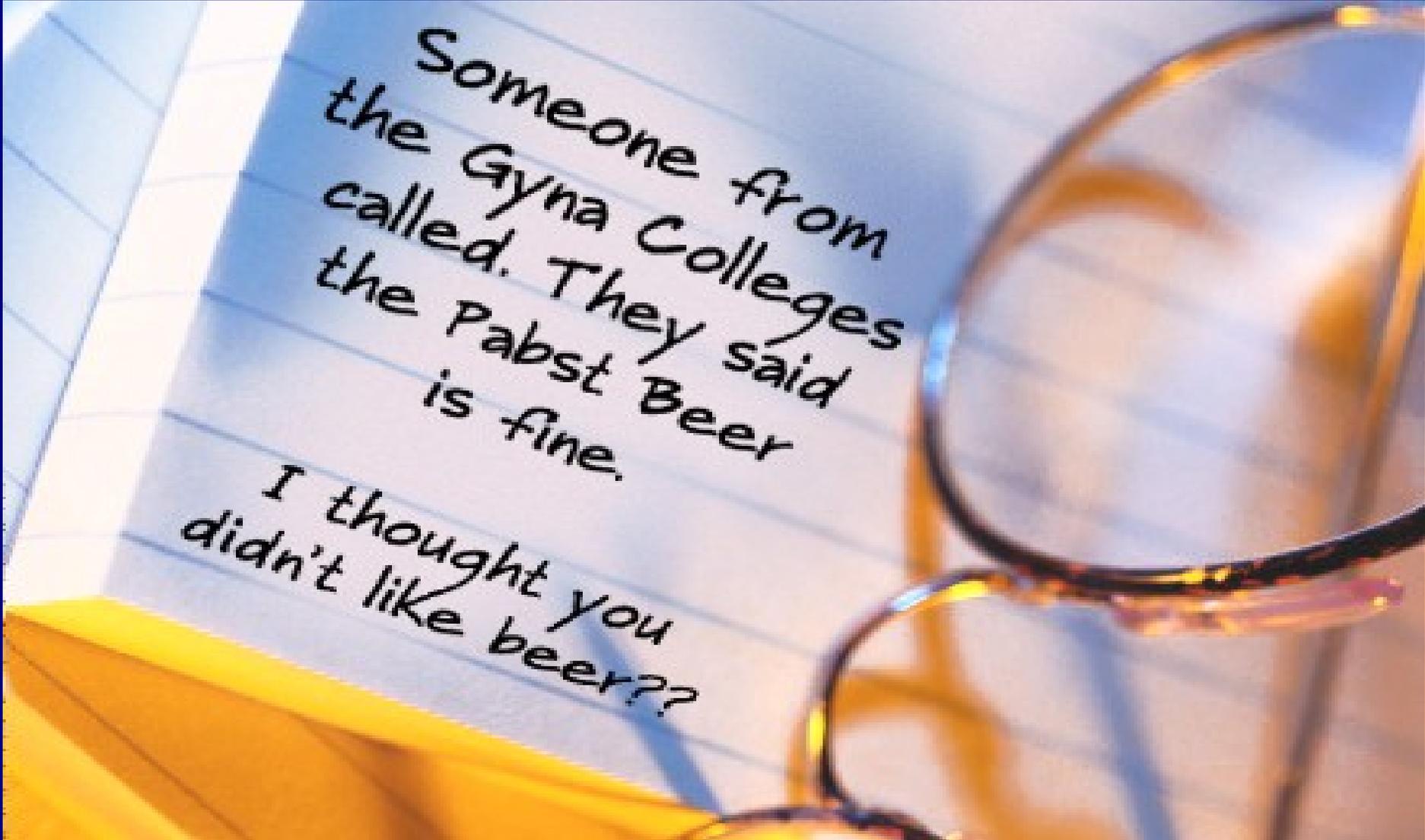
Why Synoptic Surgical Reporting in Breast Cancer?

- Common cancer
- Well-established treatment guidelines
 - Surgery common treatment – definable
 - In most patients, surgery is initial treatment and surgeon is the “quarterback” of subsequent care
- Operative reports contain critical medical information
 - Dictated and text-based, frequently incomplete, vague
- Potential knowledge translation tool

Some Excerpts

- Indications for surgery: “This patient had confirmed breast cancer and presents for surgery today.”
- Details of Procedure: “Following prepping and draping, a standard mastectomy incision was made and standard mastectomy was performed with usual landmarks and flaps. The lower axilla was removed with the tail of the breast. Vessels and lymphatic channels were clipped with medium clips or ligated with 2.0 vicryl ties or suture ligated with 3.0 vicryl. The skin was closed with 7 buried interrupted 3.0 vicryl sutures and 4.0 PDS was used to close the skin, with myself and the assistant suturing in opposing directions.”

Misinterpretation



Someone from
the Gyna Colleges
called. They said
the Pabst Beer
is fine.

I thought you
didn't like beer??

Dichotomy of Surgical Cancer Care

Increasingly complex decision making and treatment

vs.

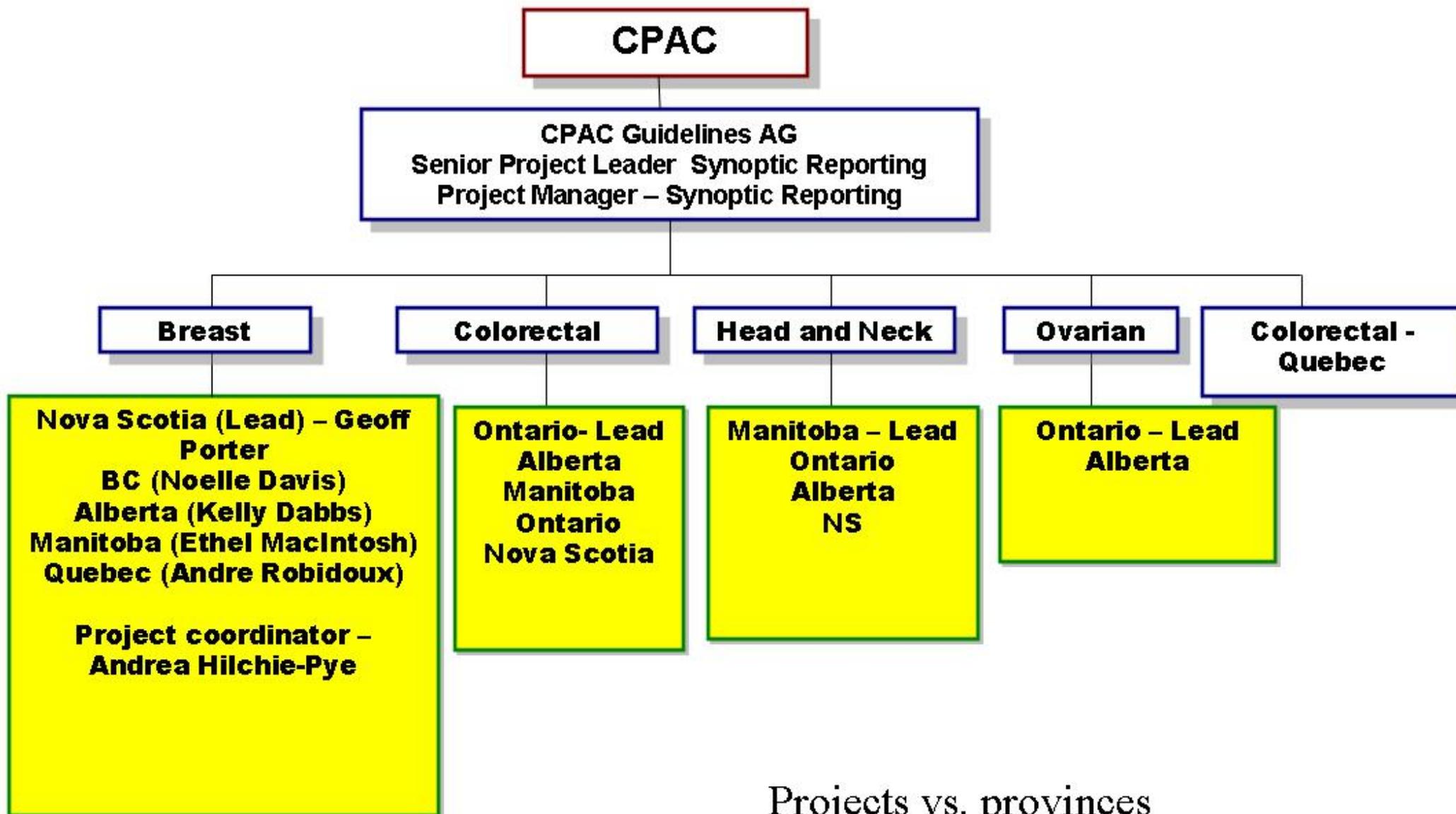
Large number of surgeons

- Makes availability of population-based tool that can describe practice patterns and assist bringing important elements of care into clinical practice extremely attractive

What is the Synoptic Reporting Tools Project (SRTP)?

- Canadian Partnership Against Cancer initiative
- Interprovincial
- Surgical reporting tool implementation
- Three year pilot
- Major evaluation component

CPAC Synoptic Reporting Projects



Projects vs. provinces

Goal of Breast Cancer SRTTP

- More complete reports
- More accurate reports
- More timely reports
- Vehicle for bringing practice guidelines into everyday practice
- Provides clinically relevant and retrievable practice pattern information
- Establish inter-provincial relationships with regards to data collection, reporting, and use of synoptic tools

Interprovincial Work

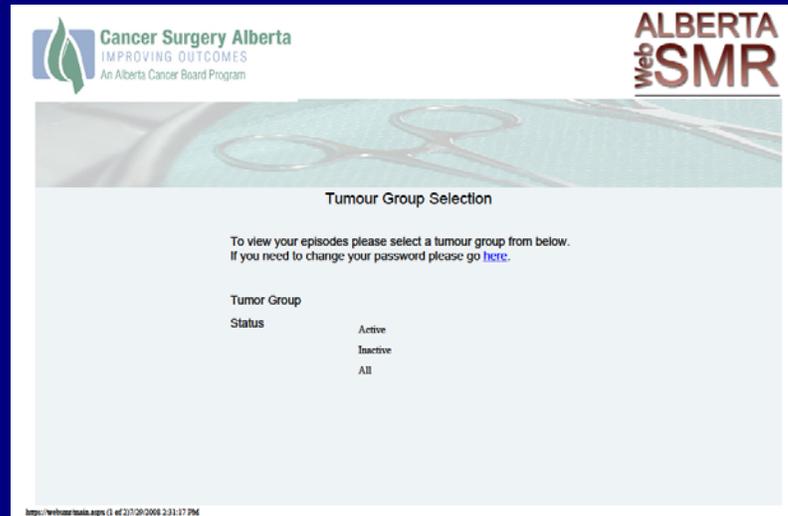
- Five province representation on breast SRTP interprovincial template committee (BC, AB, MAN, QUE, NS)
- Several revisions, provincial and society review and acceptance of content
- Consensus on interprovincial template content (provincial issues identified)

Content of OR Report Driven by:

- Clinical information needs
 - Surgeons
 - Other physicians
 - Other health care workers
- Medical record needs
- Medicolegal/regulatory needs
- Billing needs
- Research needs

What is WebSMR

- Demo



The screenshot displays the WebSMR interface for Cancer Surgery Alberta. The header includes the organization's logo and name, along with the slogan 'IMPROVING OUTCOMES' and 'An Alberta Cancer Board Program'. The 'ALBERTA WebSMR' logo is also present in the top right corner. The main content area is titled 'Tumour Group Selection' and contains instructions for users to select a tumour group to view their episodes or to change their password. Below the instructions, there is a table with the following content:

Tumor Group	
Status	Active
	Inactive
	All

At the bottom left of the screenshot, a URL is visible: <https://webstermedia.sgrs.ca/> with a timestamp of 2/27/2010 2:31:17 PM.

Synoptic Surgical Reporting

Principles of Pilot Implementation

- At least time neutral for surgeon
- Done with what surgeon has at end of case
- Voluntary for surgeon
- No duplicated dictated report – cost savings
- No detrimental IM step for facility/others

How is Implementation Going ?

- Securing and nurturing partner support is critical
- Integration of current IT health systems with a new system requires flexibility
- Implementation has major IT and IM challenges
- Focus on user acceptance and IT solutions
- Surgeon buy-in not an issue to date (we are waiting...)
- Technology enables the solution, cannot be the focus

Conclusions

- Important to understand demographics and practice patterns in breast cancer surgery
- Big gap → national-level data relevant to surgical breast cancer care
- Need to merge local/provincial clinical care benefits with a national initiative vital
 - Will SRTP do this?



I WROTE
DOWN SOME
QUESTIONS...

OR note:
Standard
surgery
performed

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