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

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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

% practice related to breast disease

Porter and MacMulkin, World J Surg 2004
Breast Cancer Surgery in Canada
N=519 surgeons

In Atlantic Canada, 51% do < 3 cases/month

Porter and MacMulkin, World J Surg 2004
Breast Cancer Surgery in Canada
N=519 surgeons

Practice Setting
Porter and MacMulkin, World J Surg 2004
Breast Cancer Surgery in Canada
N=519 surgeons

In Atlantic Canada, 71% surgeons work in community with population < 50,000

Porter and MacMulkin, World J Surg 2004
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

Majority (60%) due to lack of resources

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%)

Porter and MacMulkin, Ann Surg Onc 2003
SLN Bx Technique in 2001
N=138

- Dye alone: 12%
- Tracer alone: 9%
- Both: 79%

Porter and MacMulkin, Ann Surg Onc 2003
SLN Bx Technique in 2006
N=306

Quan et al. Breast J 2008
Method Of Learning SLN Bx
N=138

Porter and MacMulkin, Ann Surg Onc 2003
Method Of Learning SLN Bx in 2006 (N=138)

Quan et al. Breast J 2008
Highest Acceptable False Negative Rate in 2001 (N=138)

Porter and MacMulkin, Ann Surg Onc 2003
Highest Acceptable False Negative Rate in 2006 (N=306)

- <5%: 22%
- <10%: 75%
- <15%: 3%

Quan et al. Breast J 2008
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

- 10% of cases had 10 or fewer lymph nodes removed
- 38% of cases had 11 to 30 lymph nodes removed
- 52% of cases had 31 or more lymph nodes removed

Quan et al. Breast J 2008
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
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  – Pathology
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• Synoptic Reporting Tools Project (SRTP)
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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
  – 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

*Wilkinson et al. JACS 2003*
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

_Branston et al. Eur J Cancer 2002_
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

*Edhemivic et al. Ann Surg Oncol 2004*
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
Goal of Breast Cancer SRTP

- 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
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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