# How Can Surgeons Help Medical Oncologists?

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### The Role of the Medical Oncologist

- To assess the systemic risk of the cancer
- To provide recommendations for systemic treatment to the individual patient
- To work with the surgical oncologist and radiation oncologist in a multidisciplinary fashion
- To assess survivorship etc issues for the patient
- To treat relapse

### Decision Making in Adjuvant Therapy

T, N, Grade, ER, PgR, HER2, LVI

Tumour characteristics Patient Characteristics Age, Comorbidities **Prior Therapy Performance Status** 

> Patient Preference Work/Family/Self/

**Clinical Trials**, **Guidelines** Recent Reports

**Toxicity Profile**)

Molecular **Profile** 

### Decision Making by Tumour

- Size
- Grade
- Margins
- Nodal involvement
- Molecular markers
- LVI

### What We need from Surgeons

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Preoperative consult
  Where was the tumour
  Size of Tumour, Axilla
  Recommendations
Operative report
  Was it a full ALND or not
  Was extra tissue taken
  Deep assessment, fascia
Plans
  Are there plans for more surgery
```

## What We need From Pathology Reports

- Clear information on size, grade, nodes, margins, LVI, molecular markers
- Core biopsies help get markers sooner and may help planning
- SLN clear reports
- Number of nodes does the patient need an ALND

### Nobody Works Alone

Communication and multidisciplinary care

Plans may change

Respect for guidelines and grey areas

No place for dogma

#### **Patient Centred**

- Anxiety of patient often decreases what they hear
- Working together with written information to avoid confusion
- Review of case
- Avoid long delays

#### **New Directions**

- Tissue!!!
- Studies with collection of tissue and blood for analysis
- Tissue banking

- Studies Phase 0 window studies
- Studies Density Study

### Density and Risk of Breast Cancer

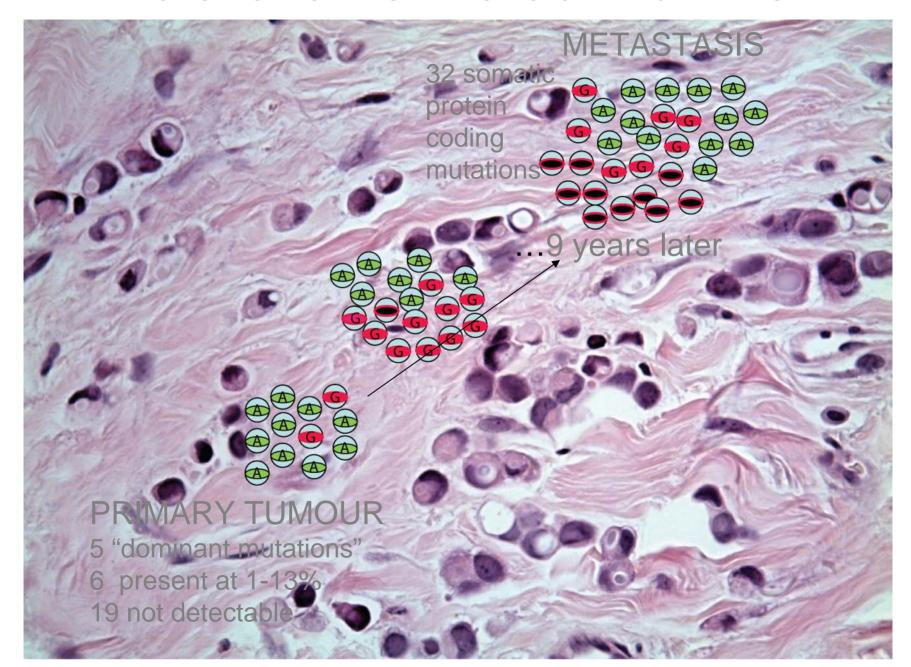
- CBCRA funded Aparicio, Gelmon, Wilson, Watson, Boyd
- What are the molecular markers to define density?
- What is the role of columnar cells in density?
- Core biopsies tumour, near tumour, opposite quadrant
- Analysis of tissue

## Sequencing a Tumour and the Metastases

Mutational evolution in a lobular breast tumour, profiled at single nucleotide resolution

 Sohrab P Shah, Ryan Morin, Jaswinder Khattra, Leah Prentice, Trevor Pugh, Angela Burleigh, Allen Delaney, Karen Gelmon, Ryan Guliany, Janine Senz, Christian Steidl, Robert A Holt. Steven Jones, Mark Sun, Gillian Leung, Richard Moore, Tesa Severson, Greg Taylor, Andrew E Teschendorff, Kane Tse, Gulisa Turashvili, Richard Varhol, René L Warren, Peter Watson, Yongiun Zhao. Carlos Caldas. David Huntsman.

#### **EVOLUTION OF MUTATIONS OVER 9 YEARS**

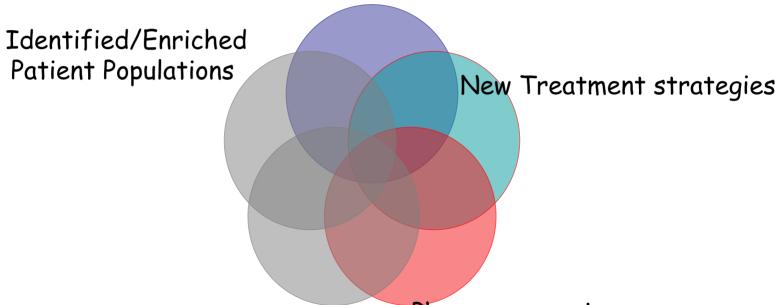


## We are all different even with guidelines

- Differing opinions
- Try to stay with guidelines but these are tempered to the individual
- Respect for different opinions
- Use of conference where a group discussion and opinion can work best

## What We Need to Develop New Strategies in Breast cancer

Tools to assess response
MEASURES OF TUMOUR AND TARGET



Multidisciplinary CARE Pharmcogenomics screen

Nultidisciplinary CARE INDIVIDUAL RESPONSE TO THERAPY

