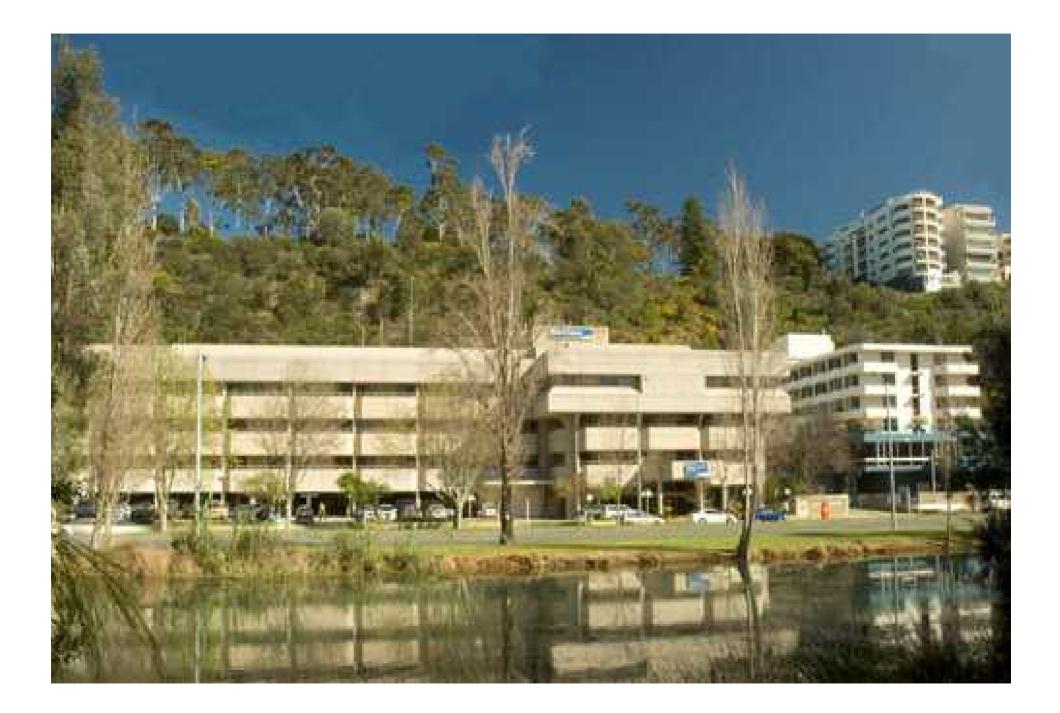
Breast cancer clinical trials: Experience in a single Australian institution

Dr Arlene Chan Medical Oncologist Co-Director Clinical Trials Unit Mount Breast Group, Mount Hospital Perth, Western Australia



Introduction

- Health care 50/50 public vs private
- Traditionally clinical trials conducted in
 - » University-based
 - » Government funded institutions
- Clinical research in private setting possible
 - » Patient awareness
 - » Supportive services

Introduction

- Large private hospitals
 - » Equivalent services: Radiology, Pathology
 - » Patient care: Multiple disciplines
- Funding for research
 - » Pharmaceutical
 - Company sponsored, Investigator-initiated research
 - » Cancer grants: NH&MRC, Cancer council
 - » Cooperative groups

Type of clinical trials

Phase I: Metastatic

» Resource intensive, After-hours coverage

Phase II: Metastatic / Locally advanced

- » Generally single arm
- » Feasibility assessment essential

Phase III: Early / LABC / Metastatic

- » Maybe registration study, Potential FDA audit
- » Labour-intensive eCRF's, Query response
- » Monitoring

Mount Hospital Clinical Trial Unit (MHCTU)

History

Established 1997-1999

- Cancer council grant
- ♦ 2 Medical oncologists \Rightarrow 7 sessions
- CTU staff

» 1 staff = 0.4 FTE

Current 2009

- Self-sufficient funding
- 3 Medical oncologists
 - \Rightarrow 12 sessions
- ♦ CTU
 - » 17 staff: = 12.5 FTE

Infrastructure: Medical

- Principal investigator
- » Site specific interest

Members of BCRC (Breast Cancer Research Centre)

- » Radiologist
- » Pathologist
- » Breast surgeons
- » Radiation oncologist
- » Nuclear physician
- » Breast nurse

- CTU Manager
- Business manager

Infrastructure: CTU

- CTU Manager
- Research nurses
- Oata managers
- Administration officer
- Ethics officer
- Project officers

- Pharmacist trialdedicated
- Nursing staff

Essential requirements

- Clinician commitment
- CTU staff: Experience & Communication
- Multidisciplinary team approach
- Oatabase of patient population
 - » Feasibility, Follow-up
- Staff, Space, Storage

Prospective data collection

F DOB Age	Dx Status	Dec 726 NoFp
S At Dx At In		
Rx Endo	Adjuvant ch	emo 1st Rx Date
Menstrual Detection LR_Date	Metastatic CBC Date	
Menarche Menopause G P AJ HRT	OC Fhx Smoker	Alcohol
Date Dx -wrt Mbc) date
	Port Vit I	
Last Seen	LINNIF	usDx cm
	Resume Met	Status
Today	Amenorr State	usNow
GBPS		
Surgery date		rent Clear events Trial Potential
Surgery	MBx Ev	rent Clear events Trial Potential
Pathology	PR 0	
Size M/Foc	Her2	
Grade		Trial name
		Drug_Herc
	Mfu DFI(m): 1st/2nd PFS	
	Months:Dx? Mbc Ac	
cerb ISH		djuvant Online
Her2+		am FEC, AC-T
TMN TNeg T1	and the second se	AC TAC,ddAC-T
Stage CA15_3	From Dx / Mbc / Cns to D	
NPI T code N code		

Our experience

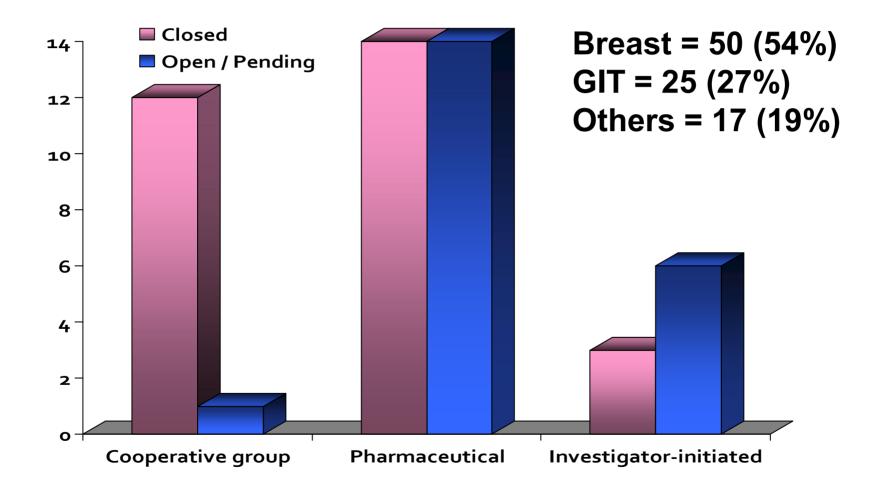
Overview

Tumour site	Patient numbers
Breast	756 (EBC 379, MBC 377)
GIT	159
Lung	23
Melanoma	17
Prostate	12
Hematology	12
	979

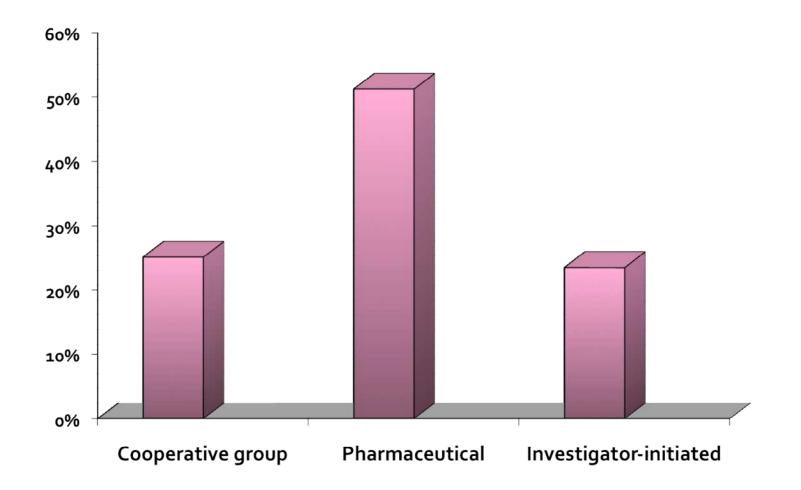
Eligibility n= 724

Recruited	675 (93%)
Did not enter trial	49
Screen failure	2
Non-compliance: All treatment	5
Non-compliance: Trial	42 (5.8%)

Types of trials



Types of trials



Current portfolio: Breast cancer

Adjuvant **BEATRICE** BETH BNP * Neratinib 3004 JUST * Michelangelo Epiphora/Nails * Soft

Metastatic AVERAL Neratinib 3003 SHERsig * CA223 TyN *

Other HER2 Discordance * STOPP * Polycar *

*Investigator-initiated trials

Current portfolio

Adjuvant		
JUST (Joints under study)	Phase II Randomised placebo-controlled trial to evaluate emu oil for treatment of arthralgias associated with aromatase inhibitor use	
Epiphora/Nails	Prevalence of epiphora and nail changes in women with early breast cancer receiving adjuvant docetaxel-based chemotherapy (TAX-AU-6034)	

Current portfolio

SHERsig (MO2204B)	Phase II study to evaluate alterations in molecular biomarkers in HER2-positive metastatic breast cancer together with assessment of trastuzumab use beyond progression
TyN (BCRC101) Tykerb & Navelbine	Phase II open label trial of lapatinib and vinorelbine in women with previously treated Her2/neu positive metastatic breast cancer

Current portfolio

HER2 Discordance	Retrospective study of the rate of HER2/neu discordance between primary breast carcinoma and locoregional or metastatic disease
STOPP	Survey of treatment and trial participation in oncology private practice
Polycar	Observational retrospective study of the impact of HER2/neu Ile655Val polymorphism on the incidence of cardiac function decline in patients who have received trastuzumab for HER2/neu positive early breast cancer.

Conclusion

- Clinical trial conduct in private setting
 - Infrastructure and recruitment capabilities differs to public institutions
- Future directions
 - » Under- and Post graduate education / training
 - » National private oncology group conduct of investigator-initiated research