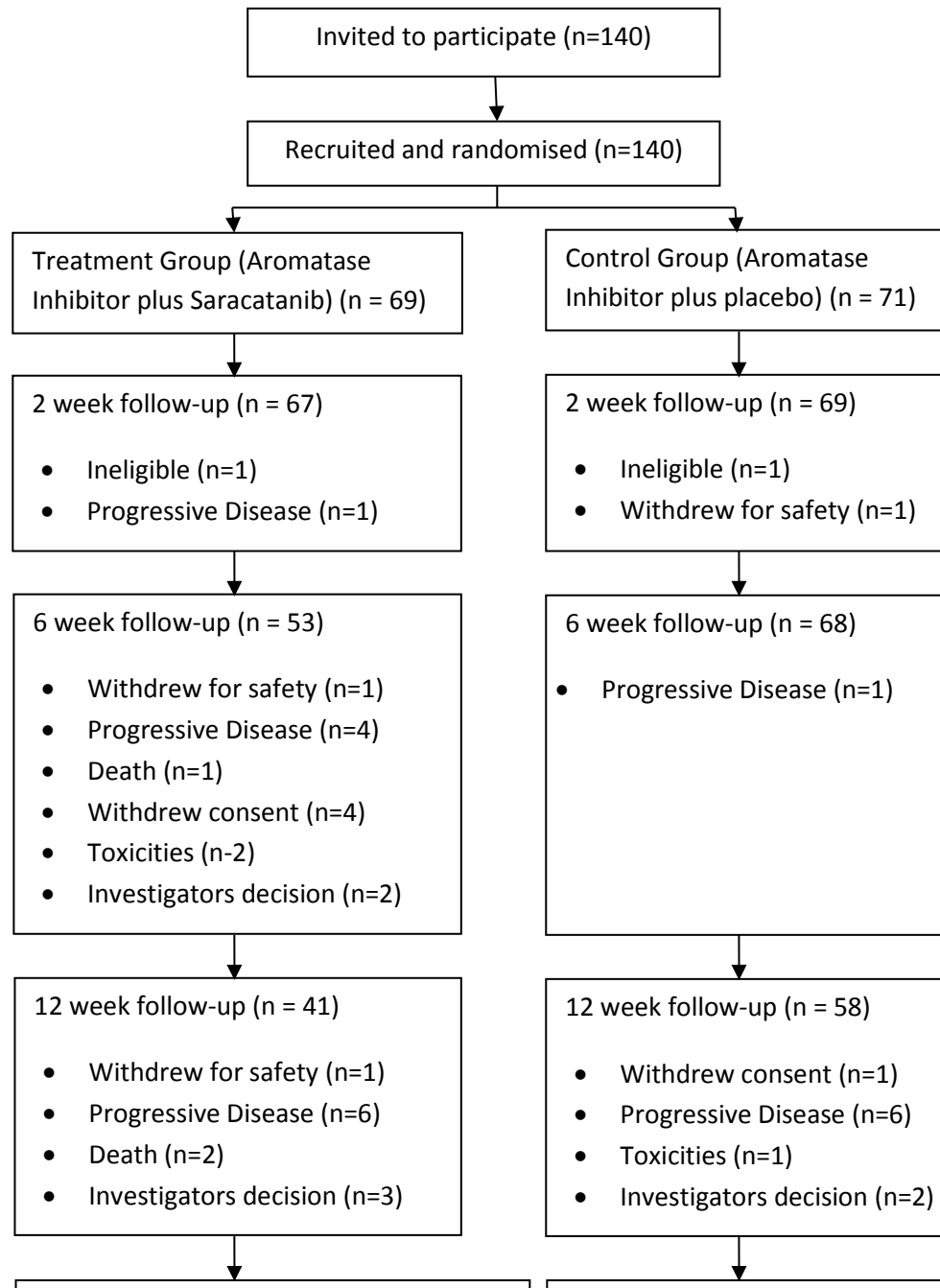
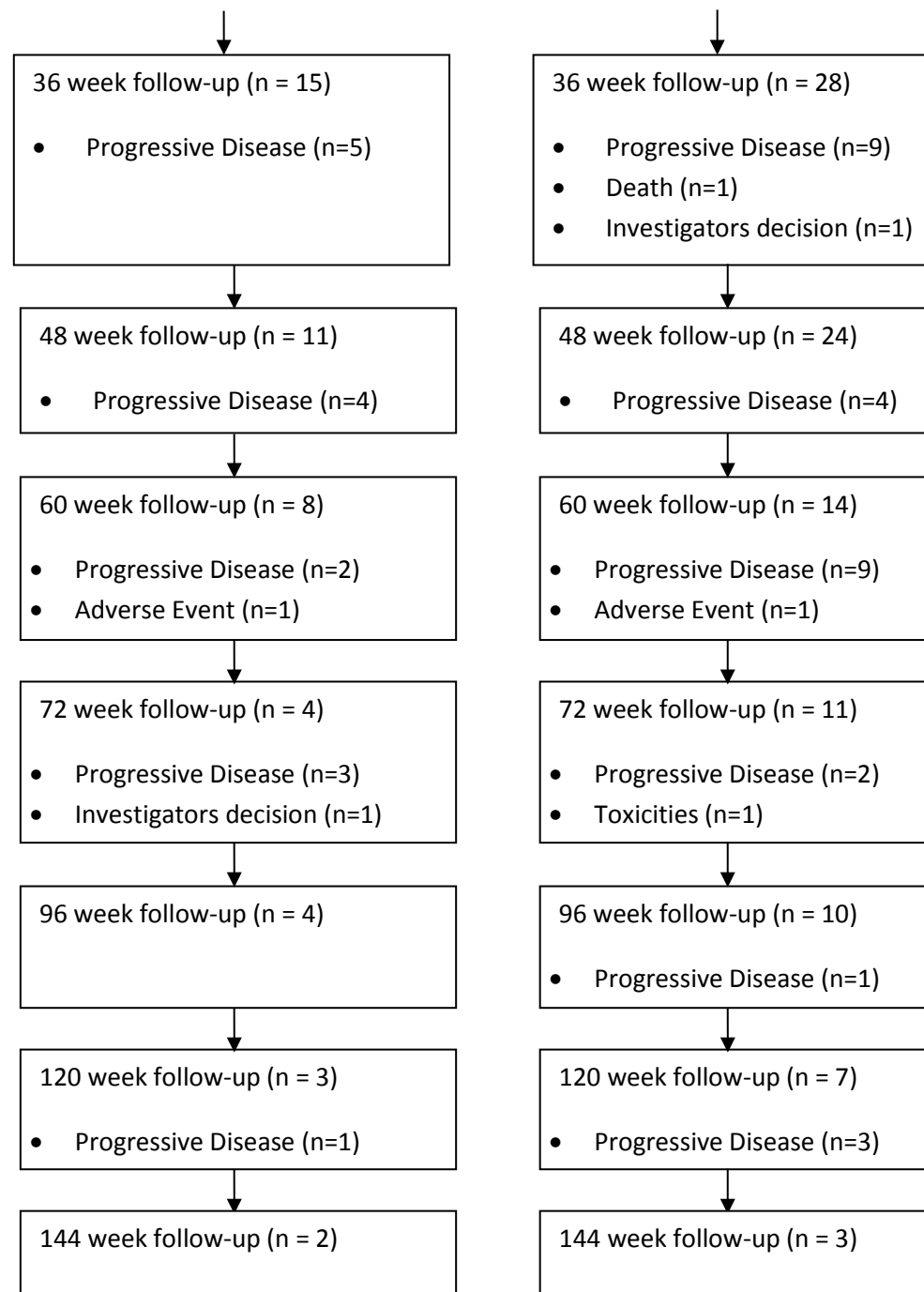


Participant Flow





Baseline Characteristics

Table 1: Baseline characteristics of subjects recruited into the study

	All	Treatment group	Control group
Mean age (min-max)	63 (41-88)	63 (41-88)	64 (41-84)
AI Sensitivity (Sensitive or Naive/Prior AI)	69/71	36/33	33/38
Performance status (0/1/2)	80/53/7	38/29/2	42/24/5
Primary Tumour type (Ductal no specialty type/Lobular/other)	104/28/17	51/15/8	53/13/9
HER2 Status (Negative/Positive/Missing)	134/5/1	66/3/0	68/2/1
Surgery at diagnosis (Breast conserving/Mastectomy/Axillary procedure/None)	51/68/93/27	22/35/46/13	29/33/47/14
Endocrine Therapy(Tamoxifen/Anastrozole/Letrozole/Exemestane)	85/49/44/7	39/22/21/4	46/27/23/3
Disease site (Bone mets only/other)	8/132	2/67	6/65
Current Bisphosphonate use (Yes/No/Missing)	74/65/1	37/32/0	37/33/1
Mean of Sum of longest target lesions (min-max)	47.85 (10-177)	48.46 (10-177)	47.25 (10-147)

Outcome Measures

Primary outcome:

1. Progression Free Survival by treatment arm.

Arm	Total N	N of Events	Censored		Median 95% CI		
			N	Percent	Estimate	Lower bound	Upper bound
AI plus saracatinib	69	61	8	11.6%	3.733	1.419	6.048
AI plus placebo	71	67	4	5.6%	5.600	4.370	6.830
Overall	140	128	12	8.6%	5.433	3.698	7.169

Secondary Outcomes:

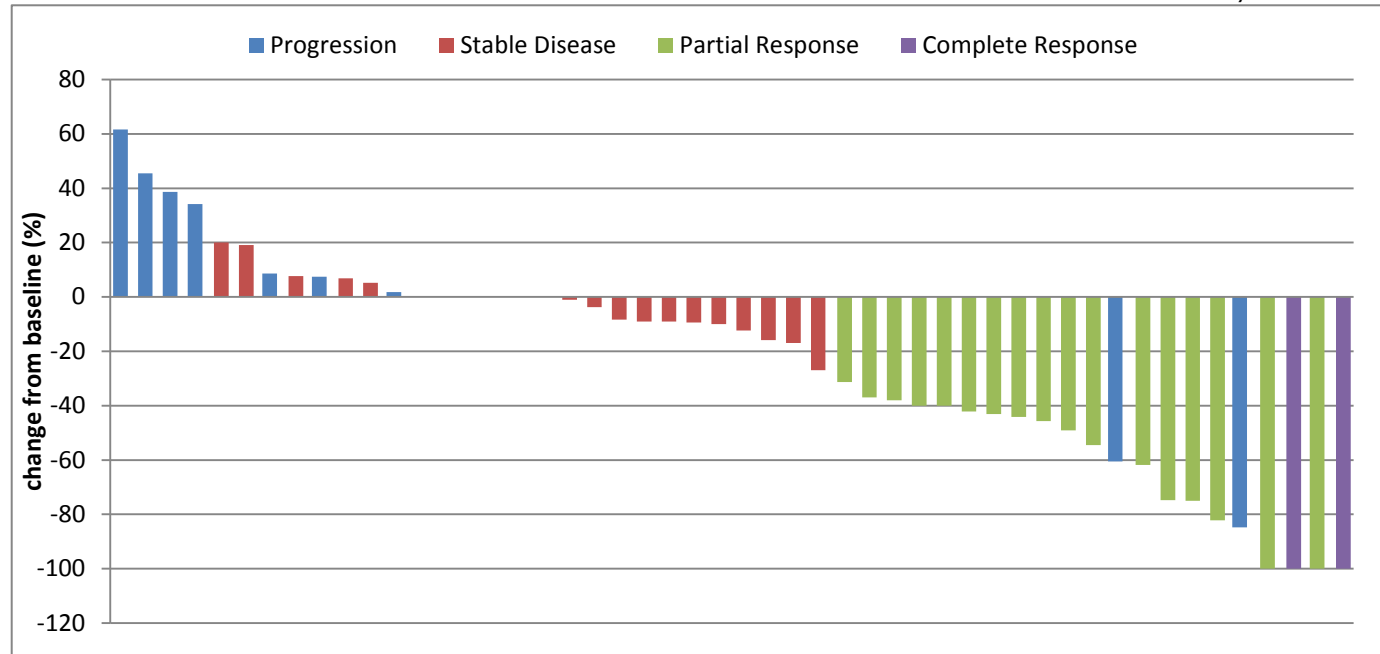
1. TOXICITY

		CTCAE (V4.0) GRADE				Percentage Safety Population							
	Arm	0-1	2	3	4	0-1	2	3	4	Mean Rank	Sum of Ranks	Mann-Whitney U	p value
ANAEMIA	AI plus saracatinib	66				98.51%				68.00	4488.00	2277.00	1.000
	AI plus placebo	69				100.00%				68.00	4692.00		
ALT	AI plus saracatinib	63	2			94.03%	2.99%			66.57	4327.00	2182.00	.729
	AI plus placebo	67	2			97.10%	2.90%			68.38	4718.00		
ALKALINE	AI plus	63	2	1		94.03%	2.99%	1.49%		67.83	4476.50	2265.50	.955

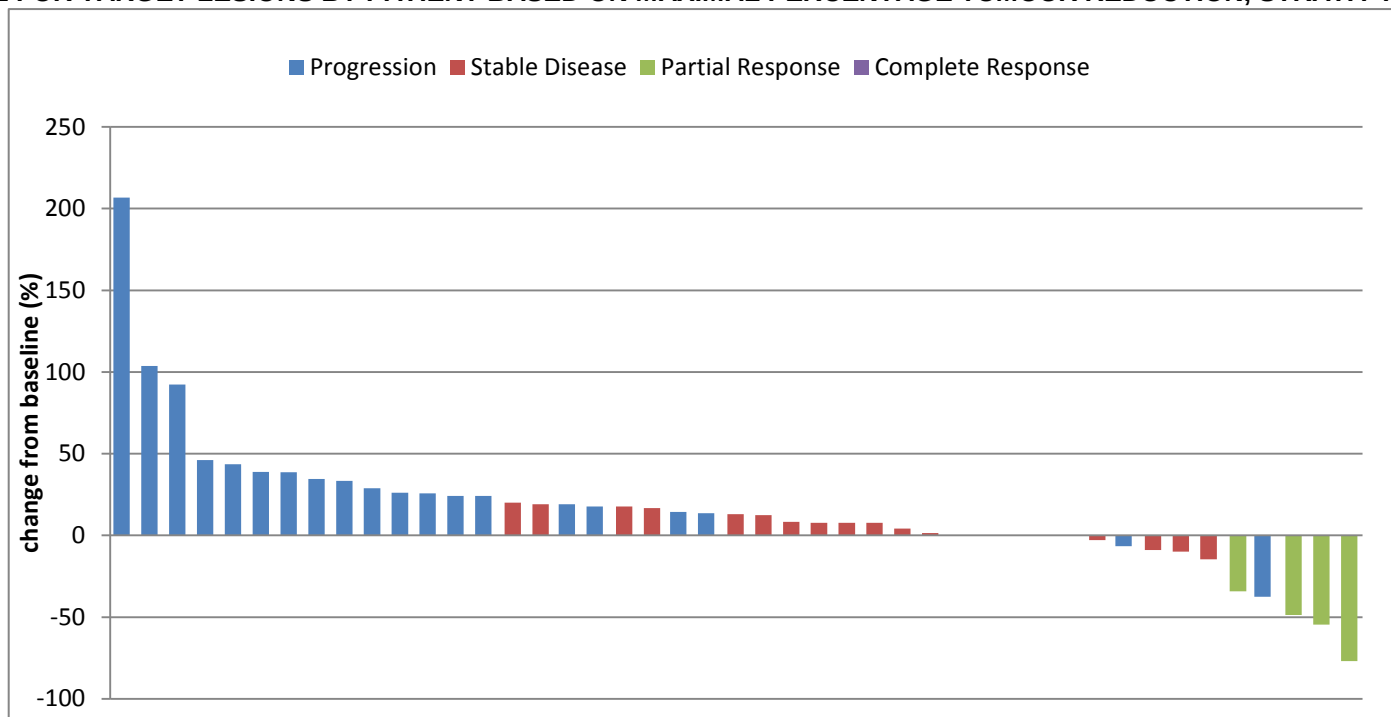
PHOSPHATASE	saracatinib												
	AI plus placebo	58	10	1		84.06%	14.49%	1.45%		68.17	4703.50		
PHOSPHATE	AI plus saracatinib	39	19	8		58.21%	28.36%	11.94%		79.65	5257.00	1442.00	.000
	AI plus placebo	64	4			92.75%	5.80%			55.71	3788.00		
Low SODIUM	AI plus saracatinib	66				98.51%				66.92	4417.00	2206.00	.626
	AI plus placebo	65	0	3	1	94.20%	0.00%	4.35%	1.45%	69.03	4763.00		
High SODIUM	AI plus saracatinib	66				98.51%				68.55	4524.00	2241.00	.535
	AI plus placebo	69				100.00				67.48	4656.00		
Low POTASSIUM	AI plus saracatinib	58	7			86.57%	10.45%			69.66	4528.00	2037.00	.073
	AI plus placebo	66	2			95.65%	2.90%			64.46	4383.00		
High POTASSIUM	AI plus saracatinib	64	0	1		95.52%	0.00%	1.49%		67.52	4389.00	2176.00	.306
	AI plus placebo	68				98.55%				66.50	4522.00		
NEUTROPENIA	AI plus saracatinib	63	2	1		94.03%	2.99%	1.49%		69.25	4570.50	2194.50	.571
	AI plus placebo	66	3			95.65%	4.35%			66.80	4604.50		
THROMBOCYTOPE NIA	AI plus saracatinib	66				98.51%				66.55	4392.00	2181.00	.438
	AI plus placebo	67	1	0	1	97.10%	1.45%	0.00%	1.45%	69.39	4788.00		

2. Change in tumour size analysed using a Waterfall plot in the two strata separately

BEST RESPONSE FOR TARGET LESIONS BY PATIENT BASED ON MAXIMAL PERCENTAGE TUMOUR REDUCTION, STRATA= AI-Sensitive/naive



BEST RESPONSE FOR TARGET LESIONS BY PATIENT BASED ON MAXIMAL PERCENTAGE TUMOUR REDUCTION, STRATA=Prior AI



3. Overall Survival by treatment arm.

Arm	Total N	N of Events	Censored		Median 95% CI		
			N	Percent	Estimate	Lower bound	Upper bound
AI plus saracatinib	69	39	30	43.5%	24.067	16.990	31.143
AI plus placebo	71	41	30	42.3%	22.933	19.532	26.335
Overall	140	80	60	42.9%	22.933	18.178	27.688

Adverse Events

Frequency of Anticipated Adverse Event (non-life threatening) by treatment arm

	CTCAE (V4.0) GRADE							% Safety Population					
	Arm	0	1	2	3	4	Not Assessed	0	1	2	3	4	Not Assessed
FATIGUE	AI plus saracatinib	11	20	26	4		6	16.42%	29.85%	38.81%	5.97%		8.96%
	AI plus placebo	14	25	19	1		10	20.29%	36.23%	27.54%	1.45%		14.49%
NAUSEA	AI plus saracatinib	30	14	15	2		6	44.78%	20.90%	22.39%	2.99%		8.96%
	AI plus placebo	25	27	8	0		9	36.23%	39.13%	11.59%	0.00%		13.04%
VOMITING	AI plus saracatinib	40	16	3	3		5	59.70%	23.88%	4.48%	4.48%		7.46%
	AI plus placebo	49	9	1			10	71.01%	13.04%	1.45%			14.49%
ALOPECIA	AI plus saracatinib	44	15	2			6	65.67%	22.39%	2.99%			8.96%
	AI plus placebo	55	4				10	79.71%	5.80%				14.49%
NEUROPATHY	AI plus saracatinib	51	8	2			6	76.12%	11.94%	2.99%			8.96%
	AI plus placebo	50	9				10	72.46%	13.04%				14.49%
MUCOSITIS/ STOMATITIS	AI plus saracatinib	50	11	0	1		5	74.63%	16.42%	0.00%	1.49%		7.46%
	AI plus placebo	50	8	1			10	72.46%	11.59%	1.45%			14.49%
RASH/ DESQUAMATION	AI plus saracatinib	41	17	5	1		3	61.19%	25.37%	7.46%	1.49%		4.48%
	AI plus placebo	51	7	1			10	73.91%	10.14%	1.45%			14.49%
HYPERSENSITIVITY	AI plus saracatinib	58	3				6	86.57%	4.48%				8.96%
	AI plus placebo	58	1				10	84.06%	1.45%				14.49%
ANOREXIA	AI plus saracatinib	33	21	8			5	49.25%	31.34%	11.94%			7.46%
	AI plus placebo	46	10	3			10	66.67%	14.49%	4.35%			14.49%
DIARRHOEA	AI plus saracatinib	42	11	9	1		4	62.69%	16.42%	13.43%	1.49%		5.97%
	AI plus placebo	48	8	3			10	69.57%	11.59%	4.35%			14.49%
CONSTIPATION	AI plus saracatinib	44	12	6			5	65.67%	17.91%	8.96%			7.46%

	AI plus placebo	46	9	4			10	66.67%	13.04%	5.80%			14.49%
FEBRILE NEUTROPENIA	AI plus saracatinib	60	2				5	89.55%	2.99%				7.46%
	AI plus placebo	58	1				10	84.06%	1.45%				14.49%
INFECTION	AI plus saracatinib	44	4	13	5		1	65.67%	5.97%	19.40%	7.46%		1.49%
	AI plus placebo	36	11	16	4		2	52.17%	15.94%	23.19%	5.80%		2.90%

Frequency of Unanticipated Adverse Events (non-life threatening) by treatment arm

	Arm	CTCAE (V4.0) GRADE				Percentage Safety Population			
		0-1	2	3	4	0-1	2	3	4
ANAEMIA	AI plus saracatinib	66				98.51%			
	AI plus placebo	69				100.00%			
ALT	AI plus saracatinib	63	2			94.03%	2.99%		
	AI plus placebo	67	2			97.10%	2.90%		
ALKALINE PHOSPHATASE	AI plus saracatinib	63	2	1		94.03%	2.99%	1.49%	
	AI plus placebo	58	10	1		84.06%	14.49%	1.45%	
PHOSPHATE	AI plus saracatinib	39	19	8		58.21%	28.36%	11.94%	
	AI plus placebo	64	4			92.75%	5.80%		
Low SODIUM	AI plus saracatinib	66				98.51%			
	AI plus placebo	65	0	3	1	94.20%	0.00%	4.35%	1.45%
High SODIUM	AI plus saracatinib	66				98.51%			
	AI plus placebo	69				100.00%			
Low POTASSIUM	AI plus saracatinib	58	7			86.57%	10.45%		
	AI plus placebo	66	2			95.65%	2.90%		
High POTASSIUM	AI plus saracatinib	64	0	1		95.52%	0.00%	1.49%	
	AI plus placebo	68				98.55%			
NEUTROPENIA	AI plus saracatinib	63	2	1		94.03%	2.99%	1.49%	
	AI plus placebo	66	3			95.65%	4.35%		
THROMBOCYTOPENIA	AI plus saracatinib	66				98.51%			
	AI plus placebo	67	1	0	1	97.10%	1.45%	0.00%	1.45%

Anticipated and Unanticipated Serious Adverse Events/SUSARs (Life Threatening)

Pt No	SAE Description	CTC Grade V4.0	SAE Type	Suspect drug	Aromatase Inhibitor	Causality Assessment of Site Investigator	Causality Assessment of CI	Expectedness Assessment of CI	SUSAR	SAE Outcome
9002	Creatinine increased	3	Death	Saracatinib	Exemestane	Probable	Probable	Unexpected	Y	Death
9004	Pain	3	Death	Saracatinib	Anastrozole	Unlikely	Unrelated	Unexpected	N	Death
9005	Sepsis	4	Life Threatening	Saracatinib	Exemestane	Possible	Possible	Unexpected	Y	Completely recovered
13010	Dyspnoea	2	Death	Saracatinib	Exemestane	Related	Related	Expected	N	Death