

CALGB 40503:

Endocrine Therapy With or Without Anti-VEGF Therapy: A Randomized, Phase III Trial of Endocrine Therapy Alone or Endocrine Therapy Plus Bevacizumab (NSC 704865) for Women With Hormone Receptor-Positive Advanced Breast Cancer

ClinicalTrial.gov Identifier: NCT00601900

Study Background

Trial Design

This randomized phase III trial studies tamoxifen citrate or letrozole together with bevacizumab to see how well it works compared with tamoxifen citrate or letrozole alone in treating women with stage III or stage IV breast cancer. Estrogen can cause the growth of breast cancer cells. Hormone therapy using tamoxifen citrate or letrozole may fight breast cancer by blocking the use of estrogen by the tumor cells. Monoclonal antibodies, such as bevacizumab, may help control breast cancer by stopping the growth of blood vessels to the tumor. It is not yet known whether giving hormone therapy is more effective with or without bevacizumab in treating advanced breast cancer.

Arms:

- Experimental: Arm I (endocrine therapy with monoclonal antibody)
- Active Comparator: Arm II (endocrine therapy)

Objectives

Primary:

- I. To compare the progression-free survival of letrozole therapy alone with the combination of letrozole therapy plus bevacizumab as first-line treatment in women with estrogen- and/or progesterone-receptor-positive advanced breast cancer.

Secondary:

- I. Overall survival
- II. Objective tumor response (measurable disease only)
- III. Toxicity

Stratification Factors

Disease measurability:

- 1) No

2) Yes

Disease free interval (months from initial diagnosis to first progression)

1) \leq 24 months

2) $>$ 24 months

Study History

Nov 2008 Activation as double-blinded placebo-controlled study

May 2010 Update #2, changed study from double-blinded to open label with the intent of increasing accrual.

June 2011 Phase II tamoxifen trial permanently closed.

Nov 2011 Phase III letrozole trial permanently closed.

May 2015 Efficacy/safety results of phase III trial presented at ASCO Annual Meeting

May 2016 Published online, JCO.

Publication Information

Analysis Type:

Primary Endpoint Analysis

PubMed ID:

27138575

Citation:

Dickler, M. N. et al. Phase III trial evaluating letrozole as first-line endocrine therapy with or without bevacizumab for the treatment of postmenopausal women with hormone receptor-positive advanced-stage breast cancer: CALGB 40503 (Alliance). *J Clin Oncol.* 34, 2602–2609, doi:10.1200/JCO.2015.66.1595 (2016).

Associated Datasets:

NCT00601900-D1 (efficacy)

NCT00601900-D2 (ae)

Dataset Information

Dataset Name: NCT00601900-D1 (efficacy)

Description:

- Contains one record per patient enrolled in phase III letrozole trial (N=350)
- Efficacy analyses include only randomized and treated patients (N=343); use code treated=1 and arm in 1 or 2 to identify.
- Unless indicated in the Notes section of the table, missing data indicates the data was not collected.

Due to data cleaning efforts subsequent to publication, data may contain slight discrepancies from those reported in the manuscript.

Patients age 80 years and over were not included in the analysis for Figure 3.

Variable description	Variable name	Codes	Notes
Identifier	patid		deidentified patient #
Treated	treated	0=no 1=yes	1=yes included in efficacy and safety analyses
Arm	arm	1=Bev 2=No Bev	
Amendment #2	postamend2	0=pre amendment 1=post amendment	Amendment changed design from double-blinded to open label
Endocrine agent	strat1_endo	1=letrozole	
Disease measurability	strat2_measdis	1=non-measurable 2=measurable	
Vital status at reporting	sstat	7=alive 8=deceased 65=w/d consent for survival f/up	w/d=withdrew
Age at registration (yrs)	ageatent	continuous	
Age Category at registration (yrs)	agecat	1= <=30 2= >30 and <=40 3= >40 and <=50 4= >50 and <=60 5= >60 and <=70 6= >70 and <=80 7= > 80	
Patient race	race_id	1=White 2=Black	

Variable description	Variable name	Codes	Notes
		4=Asian 9=All others	
ECOG performance score	PS	0, 1, 2	
Disease-free interval	dficat	0= de novo 1= le 1 year 2= gt 1 yr and le 2 yrs 3= gt 2 yrs	years from initial DX to first recurrence
De novo disease	denovo	1=yes 0=no	
Number metastatic sites at baseline	nmet_sites		
Sites of mets	met_bone_only	1=yes	Bone Only site(s) Missing indicates patient was not identified as having only bone mets.
	met_visc_only	1=yes	visceral only site(s) Missing indicates patient was not identified as having only visceral mets.
	met_bone_visc	1=yes	both bone and visceral. Missing indicates patient was not identified as having both bone and visceral mets.
Tumor subtype	erstat	1=negative 2=positive	tumoral ER
	pgrstat	1=negative 2=positive	tumoral PgR
	her2stat	1=negative 2=positive	tumoral HER2
Prior treatment	priorht_tam	1=yes 0=no	prior tamoxifen
	priorht_ai	1=yes 0=no	prior aromatase inhibitor
	any_priorht	1=yes 0=no	any prior hormone therapy

Variable description	Variable name	Codes	Notes
	any_priorcx	1=yes 0=no	any prior chemo
Why rx ended	txendreas	-1=ended but unknown 2=disease progression 4=AE 11=w/d after starting rx 7=w/d before starting rx 8=other disease 5=death on study 10=alternative rx 12=other	w/d=withdrew Missing indicates the patient did not have an end of active treatment form and was presumed to be still on treatment at time of data freeze. Since this data was updated subsequent to the PFS analysis, the number of patients reporting a txendreas=2 (disease progression) is not indicative of the pfsstat below.
Overall survival	survmos	months from study registration to all-cause death; or censor at last f/up alive	
Survival status	survstat	0=censor 1=dead any cause	
Follow-up	fumos	follow-up defined as survival months for surviving patients	per Gray method; only for surviving patients
Clinical follow-up (months)	clinfumos	follow-up for clinical evaluation defined as time from study entry until last clinical assessment for patients who are alive and without disease progression	per Gray method; only for patients who are alive and without disease progression
Progression-free survival	pfsmos	months from study registration to first disease progression or death without progression; censor last known alive and without disease progression	
PFS status	pfsstat	0=censor 1=suffered disease progression or death without disease progression	
Best overall tumor response	bestresp	1=CR 2=PR 3=SD	For measurable disease only

Variable description	Variable name	Codes	Notes
		4=PD 5=Could not be assessed	
duration stable disease	sd24	1=stable ge 24 wks 0=stable < 24 wks	only if bestresp above=3
Number of treatment cycles taken	maxcycles		