

Sponsor: Pierre Fabre Médicament Represented by: Institut de Recherche Pierre Fabre 45, Place Abel Gance 92654 Boulogne-Billancourt, France

L00070 IN 311 B0

Clinical Study Protocol - Version 7

Date:29JUL16

1/144



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L0070 I.V. Vinflunine

Clinical study protocol

A multicentre, randomised, phase III study of vinflunine plus capecitabine versus capecitabine alone in patients with advanced breast cancer previously treated with an anthracycline and a taxane

<u>Pierre Fabre Study Code</u> :	L00070 IN 311 B0
<u>Sponsor's representatives</u> :	
Clinical Development Physician:	
	Andrius BACEVICIUS, MD
<u>Clinical Study Manager:</u>	Christine PETILAIRE BELLET
<u>Coordinating investigator</u> :	Binghe Xu, MD Cancer Institute and Hospital Chinese Academy of Medical Sciences (CAMS) Beijing, China
Version No.7	Date of version: 29JUL16

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STUDY SYNOPSIS

Name of SPONSOR: Pierre Fabre MEDICAMENT				
Name of finished product:	JAVLOR [®]			
Name of active substance(s):	VINFLUNINE DITARTRATE			
Title of the study				
A multicenter, randomised, p breast cancer previously treate	hase III study of vinflunine plus capecitabine versus capecitabine ed with an anthracycline and a taxane (L00070 IN 311 B0).	alone in patients with advanced		
Coordinating investigators: Bi	nghe Xu			
Planned number of study cent	<u>'es</u> :			
26 centres have been active in	China, Singapore and Taiwan.			
Study rationale				
Options for the treatment of patients who have progressed after an anthracycline and a taxane are limited. Capecitabine currently has a role in this setting, yet as many as 80% of patients do not respond to this treatment and those who respond eventually develop clinical resistance. The antitumour activity of vinflunine has been demonstrated in patients with breast cancer after exposure to anthracycline and to				
Vinflunine plus capecitabine has been shown to be a feasible combination for patients previously treated with an anthracycline and a taxane. Each drug in combination can be administered at efficacious doses.				
This population has few therapeutic options with established clinical benefit. The development of a new regimen and potential new standard of care for this group is important.				
Period of inclusion Q3	2013 to Q4 2014	<u>Clinical phase</u> Phase III		
Objectives	· · ·			
- Primary objective:				
• To compare in patients with advanced breast cancer pretreated with anthracycline and taxane the efficacy of the combination of vinflunine and capecitabine with capecitabine alone, in terms of progression-free survival.				
- Secondary objectives:				
The secondary objectives listed	below will be no more evaluated:			
• To evaluate the response rate, the time to response and the duration of response in both arms				
• To compare the disease control rate between arms				
To evaluate the duration of disease control in both arms				
• To evaluate the overall survival in both arms				
Except following secondary objective, which will be evaluated:				
• To evaluate safety				
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Name of	SPONSOR:			
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Methodo	ology			
This m recruit anthrae alone (This multicentre, open-label, randomised, Phase III study planned to enrol a total of 334 patients. The sponsor decided to stop the recruitment after enrolment of a total of 112 patients with advanced breast cancer who have previously been treated with an anthracycline and a taxane. Patients will be randomised in a 1:1 ratio to receive VFL plus capecitabine (Arm A) or capecitabine alone (Arm B).			
Rando	misation will be stratified	ed according to :		
1	. Karnofsky Performan	ce Status ("90-100%" versus "70-80%"),		
2	. Visceral involvement	(yes versus no), visceral lesions include one of the following : live	r, lung, pleura (including pleural	
2	effusion), heart (inclu	ding pericardial effusion), peritoneum (including abdominal ascites)	, spleen and adrenal glands,	
5 Number	of patients			
A sam	or patients ple size of 167 patients	per arm was planned. Following the sponsor decision, a total of 11	2 patients have been enrolled in	
this. T	he inclusions are now c	osed.	1	
Diagnosi	is and main inclusion c	riteria		
Inclusion	n criteria :			
1.	Patients must give wri	ten informed consent		
2.	Women with histologi	cally or cytologically confirmed Her-2 negative carcinoma of the bre	east.	
3.	Documented locally re	current or metastatic disease not amenable to curative surgery or rad	liotherapy.	
4.	Patients must have re	ceived either one, two or three prior chemotherapy regimens incl	uding those administered in the	
5	Prior treatment must h	ave included both an anthracycline (i.e., dovorubicin or pirarubicin	or enirubicin) and a tayane (i.e.	
5.	5. FIGURE and a taxane (i.e., doxorubicin or pirarubicin or epirubicin) and a taxane (i.e., paclitaxel or docetaxel) in any combination or order whatever the setting			
	Note that the patients	must have received a minimum cumulative dose of 180 mg/m ² of	doxorubicin/ pirarubicin or 300	
	mg/m ² of epirubicin.		r	
6.	Documented progressi	on on or within 12 months of the most recent chemotherapy.		
7.	Prior hormone therapy	is allowed either in the neoadjuvant and/or adjuvant setting and i	n the advanced setting provided	
	that the treatment is ter	minated 2 weeks prior to randomisation.		
8.	Prior radiation therap	y is allowed to $< 30\%$ of the bone marrow and must be com	pleted at least 3 weeks before	
	randomisation.			
9.	Must have measurable	or non measurable disease according to RECIST (version 1.1). In p	atients who present with a single	
	lesion, available histo	ogical or cytological confirmation is required.		
10.	Adequate recovery fro	m recent surgery. At least one week must have elapsed from the t	time of minor surgery, at least 3	
1.1	weeks for major surger	y.		
11.	Estimated life expectat	$lcy \ge 12$ weeks.		
12.	$\Lambda_{qe} > 21$ years and ≤ 9	ε SCOLE $\leq 10\%$.		
13. 14	$\Delta dequate haematologi$	py years. The pair of the probability of the proba	telet count > $100 \times 100/I$ and	
17.	haemoglobin > 10 σ/dl	,		
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Study L00070 IN 311 B0



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15.	Adequate hepatic function (AST) and alanine am < 5 x ULN	ction defined by total bilirubin < 1.5 x upper limit of normal (UI inotransferase (ALT) < 2.5 x ULN (or < 5 x ULN in case of liver m	LN) ; aspartate aminotransferase netastases) ; alkaline phosphatase	
16.	Adequate renal function	on defined as calculated creatinine clearance > 50 ml/min according	to Cockroft-Gault formula	
17.	ECG without clinically	y relevant abnormality		
18.	8. Patients on coumadin or warfarin must be on stable doses and have an International Normalized Ratio (INR) \leq 3 at the time of screening.			
19.	Women of childbearin	ng potential must be using a medically accepted method of contract	ception (i.e. intrauterine devices,	
	condom) to avoid prea	gnancy during the 2 months preceding the start of study treatment,	throughout the study period and	
	for up to 3 months aft	er the last dose of study treatment in such a manner that the risk of	pregnancy is minimised. Women	
	of childbearing poten administration.	tial must have a negative serum or urine pregnancy test within 7	72 hours prior to first treatment	
20.	Absence of any psych	ological, familial, sociological or geographical condition potentially	hampering compliance with the	
	study protocol and foll	low-up schedule; those conditions should be assessed with the patient	nt before registration in the trial.	
Exclusio	on criteria :			
1.	Patients with known of	with clinical evidence of brain metastasis or leptomeningeal involv	ement	
2.	Patients with pulmona requiring active treatm	ry lymphangitis or symptomatic pleural effusion (grade ≥ 2) that r ent.	esults in pulmonary dysfunction	
3.	Patients having receive	ed any other experimental drug or chemotherapy within 30 days befor	re randomisation.	
4.	4. History of second primary malignancy, except: bilateral breast carcinoma, in situ carcinoma of the cervix, adequately treated non melanomatous carcinoma of the skin, and other malignancy treated at least 5 years previously with no evidence			
-	of recurrence.			
5. 6	Patients with pre-exist	ang motor/sensory peripheral neuropathy of NCI CICAE version 3.0 $cd > 3$ regimens of chemotherapy	0 grade > 1.	
0. 7	Prior therapy with can	ecitabine and/or vinca alkaloids (including vinflunine)		
· · . o	History of source huma	reansitivity to vince alkaloids (including vinitumic)	traindiaction to any of the study	
0.	drugs.	rsensitivity to vinca arkaiolds and/or to nuoropyrinndine or any con	the indication to any of the study	
9.	Known or suspected d	hydropyrimidine dehydrogenase (DPD) deficiency.		
10.	A female is not eligible	e to enter the study if: pregnant or lactating or with positive pregnand	cy test at inclusion.	
11.	Female of childbearing the 2 months precedin dose of study treatmen	g potential who is unwilling or unable to use a medically accepted m g the start of study treatment, throughout the study period and at l t.	ethod to avoid pregnancy during east 3 months following the last	
12.	Known history of HIV	infection.		
13.	Inability to take and/o gastric, small or large syndrome, 2/3 gastric r	r absorb oral medication including previous gastric surgery or any bowel obstruction; gastrointestinal disorder that affect the absorptio resection and bowel resection).	evidence of partial oesophageal, n of capecitabine (malabsorption	
14.	Patients who have a congestive heart failur infarction within 6 mo	ny serious, concurrent uncontrolled medical disorder especialle, uncontrolled high-risk hypertension, arrhythmia, angina pectoris on the prior to randomisation	y uncontrolled hypercalcaemia, or previous history of myocardial	
15.	Prior bone marrow tran	nsplantation or autologous stem cell infusion following high-dose ch	emotherapy	
Study L	00070 IN 311 B0		3/5	

Clinical Study Protocol – Version 7

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Test product, dose and mode o	f administration	•			
Patients randomised in arm A w	ill receive:				
Vinflunine at the dose of 280 m	g/m ² on day 1 of each cycle every 3 weeks, over a 20-minute IV infu	sion.			
In addition, patients will receive	e capecitabine which will be self administered in the outpatient setti	ng. Patients will take 825 mg/m ²			
twice daily orally for 14 consecu	tive days beginning on day 1 of each cycle followed by 1 week of re	est.			
A cycle of therapy is defined as	3 weeks.				
Reference therapy, dose and m	node of administration				
Patients randomised in arm B w	ill receive:				
Capecitabine self administered	in the outpatient setting. Patients will take 1250 mg/m ² twice dail	y orally for 14 consecutive days			
beginning on day 1 of each cycle	e followed by 1 week of rest. A cycle of therapy is defined as 3 week	S.			
Duration of treatment					
Patients will continue the study	treatment until :				
 disease progression, 					
unacceptable toxicity					
 patient's request 					
Criteria for evaluation:					
- Efficacy assessment					
Efficacy will be determined by u	using RECIST (version 1.1). All lesions will be assessed at baseline t	hen every 6 weeks (+/- 3			
Safety assessment	on (regardless of the timing of treatment cycles).				
Clinical safety will be assessed by	NV'				
complete history of ma	y. lignant and non malignant disease				
• full physical examination	on including vital signs, weight PS, and neurological examination				
 ECG at baseline and at 	 run physical examination including vital signs, weight, FS, and neurological examination ECC at baseline and at the and of treatment 				
 regular reporting of adv 	verse events that will be graded by using NCL CTCAF version 3.0				
complete blood count a	the baseline then on day 1 of each cycle				
 serum chemistry at base 	eline then on day 1 of each cycle.				
Study L00070 IN 311 R0		4/5			
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Statistical methods	•	·	
As the final population size is collection of data will be stor treatment period or complet representative and they will o The primary objective of this st capecitabine alone (arm B) in the failure. It is assumed that the median points to show a PFS improvement arm.	much lower than the population size required to ensure adequate oped and the analyses will be performed when patients have eithed a 35 cycles. As patients are not followed until progression, t mly be used as exploratory data. udy is to show the superiority of the vinflunine plus capecitabine co erms of progression-free survival in breast cancer patients after anther rogression-free survival will be 4.0 months for the control arm (arm of 1.5 months (HR=0.727) i.e. a median PFS of 5.5 months for the V	the statistical power, , the her completed the end of he results should be not ombination (arm A) versus racycline and taxane B). The goal of the study VFL plus capecitabine	
Using a two sided log-rank test in order to have a 80% power (An approximately 24 months a the statistical analysis will be a performed on the ITT popula	with a target type I error $\alpha = 5\%$, it is required to observe 310 event 1 - β) to show a statistically significant PFS difference when the true cerual period was planned for the 334 patients. Following the decisie ctually conducted on the 112 randomised patients and only descript tion .	ts (progression or death) e hazard ratio is 0.727. on to stop the recruitment, tive analyses will be	
The primary efficacy analysis w	ill be the description of median PFS in the ITT population.		
The safety analysis will be performed in the evaluable population for safety. Haematological parameters (WBC, ANC, platelets, haemoglobin), febrile neutropenia, biochemical parameters (ALT, AST, alkaline phosphatase, creatinine, total bilirubin) and non haematological toxicities will be assessed. The NCI CTCAE version 3.0 will be used except hand-foot-syndrome which will be graded using Roche Hand-Foot-Syndrome Grading Scale.			
End of study	· · · ·		
The end of study is the date of	the last patient study treatment administration plus 30 days (EO	Т).	
No follow up period assessmen	ts will be performed subsequently to the approval of the amendr	nent PA06:	
-Patients under treatment will stop the study at End Of Treatment (EOT)			
-Patients under follow up will	stop the study immediately.		
Study L00070 IN 311 B0		5/5	



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Required assessments	Screening period	Treatment period End of Treatment (d)			Follow-Up (f)	
Timing	Day -21 to -1	Day 1 every cycle	Day 1 to Day 14	Every 6 weeks		
Signed Informed Consent	X (a)					
	Stud	y treatment	•	•		
Vinflunine (Arm A)		Х				
Capecitabine (Arms A + B)			Х			
	Demo	graphic data	•	•		
Demography/Medical History/Diagnosis and prior therapy	Х					
Her-2 status and ER/PgR status	X (q)					
Serum/urine pregnancy test in women of childbearing potential	X (j)					
Physical Examination/Vital signs/Weight Neurological examination	X (b)	Х			Х	
Karnofsky Performance Status	X (b)	Х			Х	
		Safety				
Electrocardiogram (ECG)	X (b)	X (o)			Х	V
Pretreatment events / Adverse events/ SAE	X (k)	Х			Х	A
Complete blood count	X (b)	X (n)			Х	
Blood chemistry (c)	X (b)	X (p)			Х	
INR (as clinically indicated) (l)	Х					
Concomitant medications/blood Products	X (k)	Х			Х	
	Ef	ficacy (i)				
Chest CT-Scan or MRI	Х			Х	X (g)	
Abdominal/pelvic CT-scan or MRI	Х			Х	X (g)	
Bone scintigraphy (e)	Х				X (g)	
Bone X-rays or CT scan (bone window) or MRI (h)	Х			X (h)	X (g)	
Clinical/biological skeletal parameters/related events (m)	Х	Х			X (g)	
Brain CT scan or MRI if clinical suspicion of CNS metastases	X					
Other imaging if necessary	Х			Х	X (g)	

Table 1: Study flow chart

(a): Prior to any study procedure.

(b): Within 7 days prior to first study drug treatment. (d): Yansamiases, alkaline phosphatases, total bilirubin, total protein, urea, creatinine and calculated creatinine clearance, calcium, sodium and potassium. (d): 30 days ± 3 days after study treatment discontinuation.

(e): Bone scintigraphy in all patients at baseline. To be repeated in the following cases:

- In patients who had bone lesions at study entry to document an overall complete response - In all patients: at any time during study treatment in case of suspicion of progression due to skeletal related events defined as any observation of the following clinical/biological parameters: increase in pain intensity or analgesic consumption or alkaline phosphatase level or calcium level; or new bone pain symptoms

requiring other palliation therapy i.e. radiotherapy, surgery, bisphosphonates; or spinal cord compression; or pathological bone fracture. (f): Only for patients who discontinued study participation before approval of PA06 :until disease progression: every 6 weeks. After disease progression, every 6 months until death or end of study.

(g) Only for patients who discontinued study participation before approval of PA06 :: in case of treatment discontinuation for other reason than PD, all efficacy then survival information will be collected approximately every 6 months until death or end of study. Bone scintigraphy should be performed at any time in case of worsening of at least one of the clinical/biological parameters described above.

(h): If deemed necessary by the investigator ; to be performed on hot spots of bone scintigraphy

(i): Tumour assessment is to be performed every 6 weeks (+/- 3 working days) from randomisation (regardless of the timing of treatment cycles): all lesions found at baseline should be re-investigated at each tumour assessment (for bone lesions, see specific assessment guidelines in Section 8.1.1.2). Additional examinations may be performed if appearance of new lesions is suspected.

(j): Within 72 hours prior to first study drug treatment (k) Within 2 weeks prior to first study drug treatment

(I) Patients on oral coumarin derivative should have their anticoagulant response (INR) monitored closely

(m) Including evaluation of bone pain, analgesic consumption and assessment of biological parameters (alkaline phosphatases, calcaemia)

(n) to be performed within 24 hours before day 1 of each cycle

(o) if clinically indicated

(p) same than (n) except at cycle 1 day 1 (q) to be known prior to randomisation

Clinical Study Protocol - Version 7

Date:29JUL16

8/144