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Title of Study:	Phase II Clinical Trial of Pazopanib to evaluate the activity and tolerability in patients with advanced and/or metastatic liposarcoma who have relapsed following standard therapies or for whom no standard therapy exists		
Investigators:	Claudia Valverde Bernd Kasper Juan Antonio Carrasco Pablo Luna Andrés Poveda Velasco José Antonio López Martín Pilar Sancho Márquez María José Lecumberri Javier Martínez Trufero Fina Cruz Jurado Pilar Blay Peter Reichardt Sebastian Bauer Viktor Grünwald Lars Lindner		
Study centre(s):	Hospital Universitario Vall d'Hebrón Universitätsmedizin Mannheim Complexo Hospitalario Universitario de Vigo Hospital Universitari Son Espases Fundación Instituto Valenciano de Oncología Hospital Universitario 12 de Octubre Hospital Virgen del Rocío Complejo Hospitalario de Navarra Hospital Universitario Miguel Servet Hospital Universitario de Canarias Hospital Universitario Central de Asturias HELIOS Klinikum Berlin-Buch Medizinische Hochschule Hannover Universitätsklinikum EssenInnere Klinik Klinikum Großhadern der LMU		
Publication (reference):	Interim analysis: DOI: 10.1200/JCO.2016.34.15_suppl.11039 Journal of Clinical Oncology 34, no. 15_suppl (May 20 2016) 11039- 11039.		
Studied period (years):	5		
Date of first enrolment:	29-jan2013 (first informed consent signature) 05-feb2013 (first enrolment)	Phase of development: Therapeutic exploratory (II)	
Date of last completed:	02-mar2018		
Objectives:	<i>Primary:</i> To evaluate the activity of I advanced and/or metastatic progression-free survival (PFS start of treatment. (According t	liposarcoma by means of ) assessed 12 weeks after	

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	central radiology review).
	Secondaries:
	<ul> <li>Median progression-free survival (median PFS)</li> </ul>
	<ul> <li>Objective tumor response (confirmed complete</li> </ul>
	response [CR] and partial response [PR] using
	modified Response Evaluation Criteria in Solid
	Tumors [RECIST] 1.1).
	<ul> <li>Time to onset of response.</li> </ul>
	<ul> <li>Duration of response.</li> </ul>
	<ul> <li>Overall survival (OS).</li> </ul>
	<ul> <li>Clinical benefit rate (CBR).</li> </ul>
	<ul> <li>Growth Modulation Index (GMI).</li> </ul>
	<ul> <li>Safety profile (according CTCAE, version 4.0).</li> </ul>
Methodology:	The drug was separately investigated in the following
	liposarcoma subtypes:
	Well-differentiated liposarcoma/dedifferentiated
	liposarcoma (ALT-WD) - (Cohort A).
	<ul> <li>Myxoid/round cell liposarcoma (Cohort B)</li> </ul>
	Sample size:
	The following design characteristics and decision rules were
	applied separately to each stratum. The Simon optimal one
	sample two stages testing procedure (optimal design) was
	used with the following hypotheses:
	• Success in 20% of the cases or less in one of the strata
	will be considered as unacceptable, and would not
	warrant further investigation (null hypothesis).
	Therefore, the value of P0 was taken as 20%.
	• Success in 40% of the cases or more in one of the
	strata was considered as an acceptable result
	warranting further investigation of the drug in this
	histology (alternative hypothesis). Therefore, the value
	of P1 was taken as 40%.
	These two reference values are based on a retrospective
	analysis of the EORTC STBSG database of patients treated
	with 2nd line therapy.
	Under those hypotheses, a total of 37 eligible and treated
	patients were needed to be recruited in each stratum and
	followed for at least 12 weeks. The size of the type I and
	type II errors is 10% (alpha=beta=0.1).
	A total of 17 eligible and treated patients will be included (in
	each stratum) in the first step of the study.
	1. If $\leq$ 3 successes are observed in a stratum, the trial
	will be stopped in this stratum with the conclusion
	that the drug should not be further investigated in
	this histology.
	2. Else, patients will continue to be accrued until 37
	eligible patients have been recruited and have
	started therapy. If 11 or more successes are
	observed in those 37 patients, we will conclude that
	the results of this trial warrant further investigation in
	this histology.
	Analyses for results
	Results presented here correspond to stage 2 of the trial

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	(please see protocol for more information) and are calculated based on the intent-to-treat sample (for efficacy outcomes); safety, on the other hand, has been analysed considering all patients with at least one dose of the investigational product. Data has been considered from first patient's inclusion to study close-out (13 December 2017). Safety was evaluated based on type, frequency, and intensity of adverse events related to the combination treatment.	
Number of patients		
● Planned:	74* *Inclusion for the myxoid liposarcoma cohort (B) was concluded when 15 patients were recruited.	
Analysed:	52 (Cohort A: 37 patients; Cohort B: 15 patients).	
Diagnosis:	Advanced and/or metastatic liposarcoma	
Main criteria for inclusion:	<ol> <li>Subjects must provide written informed consent prior to performance of study-specific procedures or assessments and must be willing to comply with treatment and follow-up.</li> <li>Age &gt; 18 years or legal age of consent if greater than 18 years.</li> <li>Histological confirmed diagnosis of high or intermediate grade malignant liposarcoma with metastatic or locally advanced disease. Formalin fixed paraffin embedded tumour block and/or representative H/E (haematoxylin/eosin) slides must be available for central pathologic review.</li> <li>Patient must have documentation of disease progression within 6 months prior to study entry.</li> <li>Eastern Cooperative Oncology Group (ECOG) performance status of 0-1.</li> <li>Measurable disease by RECIST v1.1 criteria. At least one measurable lesion located outside of a previously irradiated area. If the only measurable lesion is in a previously irradiated area, RECIST progression should be documented after radiotherapy, in the previous 6 months before study entry.</li> <li>The patient should not be considered eligible for surgery or radical radiotherapy. e.g. Patients to whom surgery/radiotherapy can not be performed with a curative intent due to the extension of the disease. In the case of radiotherapy, it may also be limited due to a previous treatment with radiotherapy in the same area.</li> <li>The patient must have either been considered ineligible for systemic chemotherapy or received at least one previous regimen for relapsed, refractory or metastatic disease. A maximum of three previous lines for advanced/metastatic disease are allowed.</li> </ol>	

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		<ul> <li>9. The patient should be able to swallow and retain study drug.</li> <li>10. Adequate organ system function as defined in Table 1 of protocol.</li> <li>11. A subject is eligible to enter and participate in this study if she/he is following the contraceptive indication detailed in protocol.</li> <li>12. LVEF above the lower limit of normal for the institution, based on ECHO or MUGA.</li> </ul>		
Test produ	ict			
Dos			opanib 800 mg (2x400mg o le agent administered once	
-	de of ninistration:	Ora	use	
Bate	ch number:	Not	applicable	
	ation of atment	Until progression of disease, according to study protocol		
Reference	therapy	Not applicable		
Dos	se:	Not	applicable	
-	de of ninistration:	Not applicable		
Bate	ch number:	Not applicable		
Criteria for	r evaluation			
● Effic	cacy		<ul> <li>therapy</li> <li>Overall progression free</li> <li>Overall survival (OS)</li> <li>Clinical benefit rate</li> <li>Growth Modulation Index</li> </ul>	· · · ·
Safe	ety	(	<ul> <li>Safety profile (according</li> </ul>	g CTCAE, version 4.0)
Statistical n	nethods:	Patie effic prog mea eval cent prog succ this unki The mea base	acy analysis, that was pression free survival 12 w usured as a binary variable uation performed 12 weeks ral radiology review. Pa pression free at this tim cesses. Patients who have time will be considered a nown progression status w diagnosis of progression usurements, according to t	criteria were included in the primarily aimed to assess weeks after start of therapy, and based on the disease after start of treatment with tients who are alive and he will be considered as progressed or are dead at as failure. Patients with an <i>v</i> ill be considered as failure. on was based on tumor he RECIST 1.1 criteria and g performed throughout the

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	For continuous variables, mean, standard error (for efficacy variables), standard deviation (for other measurements), median, minimum and maximum, were considered. Categorical variables are presented using frequencies and percentages. Survival was assessed with two-sided confidence intervals (CI 95%s) Kaplan–Meier curves.
	Comparison on results of progression-free survival among cohorts were performed using the Log-rank test (%) and with u-Mann Whitney test (median, min-max comparison). Safety data were analysed throughout the entire study and
SUMMARY CONCLUSIONS	is presented as number and proportion of each event.
EFFICACY RESULTS	Median follow-up was 61.5 (2.3-217.3) months for the total population, 69.7 (5.0-217.3) months for Cohort A and 46.4 (2.3-163.6) months for cohort B. To highlight the good tolerance of the treatment, only 3 patients were reported to have had dose reductions throughout the study period.
	<b>Objective Tumor Response and clinical benefit rate</b> Evaluation of response at 6 weeks resulted in 8.1% and 6.7% of patients with partial response in Cohort A and Cohort B, respectively. When the 12-weeks evaluation was analysed, these proportions were 5.4% and 0.0%, respectively. No patients with complete response were reported.
	Clinical benefit rate (in this case patients reaching partial response or stable disease) was 54.1% and 32.4% at 6- and 12-weeks these proportions corresponded to 40% and 6.7%, respectively.(Cohort A) and 40% (Cohort B) of patients obtained clinical benefit from treatment. The 12- weeks evaluation showed 32.4% and 6.7%).
	<b>PFS-12 weeks after start of therapy</b> As per RECIST 1.1, PFS at 12 weeks was 54.1% (CI 95%: 38-70.2%) for Cohort A and 40% (CI 95%: 15.2-64.8%) for Cohort B. Cohort B did not reached the predefined >40% PFS-12, and therefore the recruitment in this cohort was interrupted after the first 15 patients were analysed.
	<b>Progression free survival (median PFS)</b> Median PFS (as per RECIST 1.1) was 15 weeks (CI 95%: 8.19 - 21.81) for cohort A and 8.71 weeks (CI 95%: 4.93 a 12.5) for Cohort B. In the total population, 9 patients (17.3%) did not progress (17.3%) after a median follow up of 162 weeks. This included 6 out of 37 patients (16.2%) in the Cohort A and 3 out of 15 patients (20%) in the Cohort B; p=0.706). For those patients with PD (n=43), time to progression in Cohort A (median; range) was 9.7 weeks (2.3-178.7), 11.6

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	weeks (5.3-178.7) for Cohort A and 7.5 weeks (2.3-95.7) for Cohort B. and
	<b>Overall survival (OS)</b> Median OS for this study was similar: 70.43 weeks (CI 95% de 42.69 - 98.17) for cohort A and 71.29 weeks (CI 95% de 31.21 - 111.36) for cohort B, (p=0.711). Thirty-five patients (67.3%) have died at the end of follow up: 26 of 37(70.3%) for cohort A and 9 out of 15 (60%) for cohort B, p=0.135). Among this 35 patients, 30 had a PD-related death and this occurred after a median of 45.9 weeks after start of treatment, with no differences between cohorts (45.1 and 46.4 weeks, respectively; p=0.821).
	<b>Growth Modulation Index (GMI)</b> Considering GMI as the ratio between time to PD with pazopanib (TTPp) divided by the time to PD with the previous line of treatment (TTPp-1), an analysis of all patients with information on both progressions (n=39) was performed. A median GMI of 0.4 was observed, with significant differences between cohorts: 0.7 in Cohort A and 0.2 in Cohort B, p=0.022). When GMI was categorized into groups (<1, 1-1.33 and >1.33), however, differences were not reported (p=0.223).
	The GMI was also considered in further analysis related to efficacy based on local evaluations of disease. The GMI/PFS analysis showed a larger median PFS for the GMI>1.33 group (33.86 weeks), particularly higher than for the GMI <1 group (8.43 weeks, p=0.001). These differences were also observed when cohort A was evaluated, not so for the rest of patients (Cohort B) for whom results were comparable (GMI <1: 7 weeks; GMI 1-1.33: 12.71 weeks). Overall survival did not show differences for global sample depending on the GMI (p=0.329) nor for each cohort (p= 0.329 and p=0.662, cohort A and B, respectively).
SAFETY RESULTS	<b>Safety profile (according CTCAE, version 4.0)</b> During treatment, all participants reported at least one adverse event (of any grade) and 88.5% of the 52 patients reported at least one toxicity/event of any grade which was associated with treatment. These findings did not differ between cohorts (89.2% vs 86.7%, p=1.000). 26 (50.0%) reported at least one $\geq$ G3 event. The most common G3 reported events were: Hypertension (n=7; 13.5%), diarrhea (n=4; 7.7%), neutropenia (n=3; 5.8%) and ALT increased (n=3; 5.8%). No differences between cohorts (45.9% vs 60.0%, p=0.358) were observed. When $\geq$ G3 events were associated with treatment (toxicities) this proportion was 30.8%, and without particular differences among groups (29.7% vs 33.3%, p=1.000). During the whole follow-up, severe adverse events (SAEs)
	were observed in 14 patients (26.9%) and 11 of the

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