2. SYNOPSIS

2. STNOTSIS			
Name of	Individual Study Table Referring to Part of	(For National Authority Use only)	
Sponsor/Company:	the Dossier		
PharmaMar S.A., Sociedad			
Unipersonal	Volume:		
J&JPRD			
Name of finished	Page:		
product:			
YONDELIS®			
Name of active			
ingredient(s):			
Trabectedin			
Protocol number	ET-B-027-06		
Title of the study		trial of Trabectedin (Yondelis®) in	
The of the study	Metastatic Breast Cancer Patients with triple		
	HER2 overexpressing tumors and BRCA1 or B		
Coordinating investigator	Suzette Delaloge, M.D.	KC/12 mutation carriers.	
Coordinating investigator			
G 1 (1) (G) 1	Institut Gustave Roussy, Villejuif, France.	1 1 0 1 1 0 1	
Co-investigators / Study	Dino Amadori, M.D. Instituto Scientifico Re	omagnolo per lo Studio e la Cura di	
centers	Tumori, Meldola, Italy.		
	Thomas C. Anderson, M.D. Texas Oncology -		
	Joanne L. Blum, M.D. Sammons Cancer Cente		
	Corrado Boni, M.D. Arcispedale S. Maria Nuc		
	Mario Campone, M.D. Centre René Gauduche		
	Pierfranco Conte, M.D. University de Modena		
	Michael A. Danso, M.D. Virginia Oncology Associates, Norfolk, VA, U.S.		
	Marco Danova, M.D. Policlinico San Mateo University Hospital, Pavia, Italy.		
	Marc Debled, M.D. Institute Bergonie, Bordeaux, France.		
	David Dong, M.D. Puget Sound Cancer Center		
	Noa Efrat, M.D. Kaplan Medical Center, Reho	vot, Israel.	
	Patrick J. Flynn, M.D. Minnesota Oncology H		
	Yousuf Gaffar, M.D. Alliance Hematology	Oncology PA, Carrol County Cancer	
	Center, Westminster, MD, U.S.		
	Anthony Gonçalves, M.D. Institut Paoli Calmettes, Marseille, France.		
	Frankie Ann Holmes, M.D. Texas Oncology - Houston, Houston, TX, U.S.		
	Vicki Jones, M.D. Yakima Valley Memorial Hospital, Yakima, WA, U.S.		
	Deborah L. Lindquist, M.D. Northern Arizona Hematology & Oncology Associates,		
	Sedona, AZ, U.S.		
	Ivan Lowenthal, M.D. Connecticut Oncology	& Hematology, Torrington, CT, U.S.	
	Jan Lubinski, M.D. Intl. Hereditary Cancer Center, Sczeczin, Poland.		
	Richard J. McKittrick, M.D. Kansas City Cancer Center, Kansas City, MO, U.S.		
	Joseph J. Muscato, M.D. Missouri Cancer Associates, Columbia, MO, U.S.		
	Ruth Oratz, M.D. New York, NY, U.S.		
	Devchand Paul, M.D. Rocky Mountain Cancer Centers, Denver, CO, U.S.		
	Therri Petit, M.D. Centre Paul Strauss, Strasbo		
	Donald Richards, M.D. Texas Oncology - Tyler, Tyler, TX, U.S.		
	Paul D. Richards, M.D. Oncology/Hematology Associates of Southwest Virginia,		
	Salem, VA, U.S.		
	Michael A. Savin, M.D. Texas Cancer Center a	t Medical City, Dallas, TX. U.S.	
	Madelaine Sgroi, M.D. Central Indiana Cancer		
	Grzegorz Slomian, M.D. Spzoz Wojewodzki S		
	Karen Tedesco, M.D. Amsterdam Communi		
	U.S.	, 111,	
	Beatrice Uziely, M.D. Hadassah Medical Organ	nization, Jerusalem, Israel	
Publication (references)	At the time of this report no articles have b		
- amiculon (references)	herein.	passioned on the study described	
	Preliminary results of this study were presented	at:	
	 American Society of Clinical Oncology (ASCO) 45th Annual Meeting (Orlando, 		
	May 29-June 2). "Delaloge S, Tedesco KL, Blum J, Gonçalves A, Lubinski J,		
	Efrat N, Osborne C, Lebedinsky C, Terce		
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	and activity results of trabectedin in a ph		
	(ER-, PR-, HER2-), HER2+++, or BRCA1		
	cancer (MBC) patients (pts). J Clin Oncol 2	2009, 27(13 Supi): Adstract 1010 .	

Name of finished product: Volume:	Name of	Individual Study Table Referring to Part of	(For National Authority Use only)
Volume:		•	, , , , , , , , , , , , , , , , , , , ,
Name of faished product:	PharmaMar S.A., Sociedad		
Name of finished product: YONDELIS®		Volume:	
Name of active ingredient(s): Trabectedin		Pogo.	
* American Society of Clinical Oncology (ASCO) 46th Annual Meeting (Chicago, June 4-8). "Tedesco KL, Blum JL, Goncalves A, Lubinski J, Ben-Baruch N, Osborne CR, Lardelli P, Tercero JC, Holmes FA, Delaloge S. A phase Il trial of trabectedin (T) in patients (pts) with HER2-positive and BRCA1/2 germ-line-mutated metastatic breast cancer (MBC). J Clin Oncol 2010, 28(15 Supl): Abstract 1038". **American Society of Clinical Oncology (ASCO) 47th Annual Meeting (Chicago, June 3-7). "Tedesco KL, Blum JL, Gonçalves A, Lubinski J, Osborne C, Lardelli P, Tercero JC, Hofere A, Holmes FA, Delaloge S. Final results of a phase II trial of trabectedin (T) in triple negative, HER2 positive and RCA1/2 germ-line-mutated metastatic breast cancer (MBC) patients. J Clin Oncol 2011, 29(Supl): Abstract 1125". Study period:		rage.	
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Diagnosis and main	Inclusion Criteria	
selection criteria	Patients who met all following criteria participated in the study:	
	 Patient's written informed consent before any clinical trial-specific procedure. Woman 18-years-of age, or older. 	
	3. Histologically proven diagnosis of progressive metastatic breast cancer, either in	
	documented:	
	• Group A: triple negative phenotype [ER, PR and HER-2 negative status	
	(surrogate of basal-like type)]. Patients were eligible if they had received prior	
	therapy with an anthracycline and taxanes, including adjuvant or neoadjuvant	
	therapy, but no more than three prior chemotherapy regimens for metastatic	
	disease. NOTE: re-treatment with the same regimen or its components after a progression-free interval of six months or longer was considered a second	
	regimen.	
	• Group B: HER-2 overexpressing breast cancer. Patients were eligible if they	
	had progressive metastatic disease following treatment with trastuzumab-based	
	regimens or other HER-2 targeted therapy containing regimens, but no more	
	than three prior regimens that contain HER-2 directed therapy and	
	chemotherapy for metastatic disease were allowed. NOTE: re-treatment with the same regimen or its components after a progression-free interval of six	
	months or longer was considered a second regimen.	
	• Group C: familial BRCA1 or BRCA2 mutation carriers. Patients were eligible	
	if they had developed progressive metastatic disease after at least one prior	
	chemotherapy regimen in the adjuvant or metastatic setting. There was no limit	
	to the maximal number of prior therapies allowed.	
	4. Measurable disease as defined in the RECIST guidelines. If the only indicator	
	lesion was in a previously irradiated area, the recurrence had to be biopsy proven. 5. Patients with bone metastases currently receiving bisphosphonates for palliation	
	were eligible if other sites of measurable disease were present.	
	6. Eastern Cooperative Oncology Group (ECOG) Performance Status (PS) 0 or 1.	
	7. Hematologic variables:	
	• Hemoglobin ≥ 9 g/dl.	
	• Absolute neutrophil count (ANC) ≥ 1,500/µl, and	
	 Platelet count ≥ 100,000/µl. Serum creatinine ≤ 1.5 mg/dl or creatinine clearance ≥ 30 ml/min. 	
	9. Creatine phosphokinase (CPK) ≤ 2.5 x upper limit of normal (ULN).	
	10. Hepatic function variables:	
	 Total bilirubin ≤ ULN. 	
	• Total alkaline phosphatase (AP) ≤ 2.5 x ULN, or if > 2.5 x ULN, the AP liver	
	fraction had to be considered or gamma-glutamyltransferase (GGT) or 5'	
	nucleotidase had to be \(\leq \text{ULN}\), if the elevation could be osseous in origin.	
	• AST (serum aspartate aminotransferase) and ALT (serum alanine aminotransferase) had to be $\leq 2.5 \text{ x ULN}$.	
	11. Albumin ≥ 25 g/l.	
	12. Complete recovery from the acute toxicity of any prior treatment. The presence of	
	alopecia or National Cancer Institute Common Toxicity Criteria (NCI-CTC)	
	grade 1 symptomatic peripheral neuropathy was allowed.	
	13. Patients could have central nervous system (CNS) metastases if stable (no evidence of progression) for at least three months after local therapy.	
	evidence of progression) for at least three months after local therapy. Exclusion Criteria	
	Patients who met any of the following criteria were to be excluded from participating	
	in the study: confidential	
	1. Prior exposure to trabecteding	
	2. Known hypersensitivity to any of the components of the trabectedin intravenous	
	(i.v.) formulation of dexamethasone.	
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Habecteum	3. More than three prior chemotherapy regimens for metastatic disease for Groups A	
	and B. NOTE: re-treatment with the same regimen or its components after a	
	progression-free interval of six months or more was considered a second regimen.	
	4. Pregnant or lactating women or any women of childbearing potential who was not	
	employing adequate contraception. Acceptable methods of contraception included	
	intrauterine device (IUD) and double barrier (condom with a contraceptive sponge	
	or contraceptive suppository). Use of hormonal contraception was not acceptable	
	during this clinical trial.	
	5. Completion of prior therapy: less than two weeks from radiation therapy (radiated legions could not some as measurable disease) or lest does of hormonal therapy.	
	lesions could not serve as measurable disease) or last dose of hormonal therapy, less than three weeks from prior chemotherapy or biological therapy (all acute	
	toxicities had to be adequately recovered as per inclusion criteria #12), less than	
	four weeks with any investigational agent.	
	6. History of another neoplastic disease (except basal cell carcinoma or squamous	
	cell carcinoma of the skin or cervical carcinoma in situ adequately treated) unless	
	in remission for five years or longer. Group C patients could be enrolled with less	
	than five years remission from another neoplastic disease; however, appropriate	
	biopsy confirming current metastasic breast cancer was mandatory.	
	7. Patients with known leptomeningeal disease.8. Other serious illnesses, such as:	
	Congestive heart failure or angina pectoris; myocardial infarction within one	
	year before enrolment; uncontrolled arterial hypertension or arrhythmias.	
	Psychiatric disorder that prevents compliance with protocol.	
	Active viral hepatitis; or chronic liver disease.	
	Active infection.	
	Any other unstable medical conditions.	
	9. Patients with a life expectancy of less than three months.	
Test product, dose and	Trabectedin was supplied by PharmaMar (Colmenar Viejo, Madrid, Spain) as a sterile	
mode of administration	lyophilized powder for concentrate for solution for infusion. It was administered as a	
	1.3 mg/m ² 3-hour every three weeks (q3wk) i.v. infusion. The following batches were used:	
	• 0.25-mg vial batches: #05C09, #05I01, #05I20, #06L14, #07A19, #08A16,	
	#09J14 and #10G09.	
	• 1-mg vial batches: #06K16, #07A10, #07I13, #07J18, #08A22, #08C31,	
	#08D07, #08D24, #08F19, #08I11, #08K18, #09A14, #09C04, #09C11,	
	#09K03, #09L17 and #9K217A.	
Duration of treatment	Trabectedin treatment was administered until disease progression, unmanageable	
	toxicity, patient refusal or treatment delay longer than three weeks due to toxicity (except in case of obvious patient benefit). In case of objective response and	
	acceptable toxicity, no maximum number of cycles of treatment was defined. The	
	clinical trial could also be discontinued due to major protocol deviations,	
	administrative reasons, or Sponsor's decision.	
Criteria for evaluation		
Efficacy	Patients who had received a minimum of two trabectedin infusions and had at least	
	one disease assessment after baseline (performed at least six weeks after the start of	
	trabectedin administration) were evaluable for efficacy. In addition, any eligible	
	patient who experienced early disease progression or died of progressive disease prior	
	to response evaluation was considered evaluable for response. The primary analysis of efficacy was based on the confirmed objective tumor response (i.e., CR or PR) rate in	
	each group of patients. Secondary endpoints of efficacy were DR, PFS and exploratory	
	evaluation of changes in tumor volume and in tumoral radiological density. The tumor	
	response rate, DR and PFS were evaluated according to the RECIST v.1.0.	

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Safety	All patients who had received at least part of one trabectedin infusion were evaluable	
	for safety. Safety parameters included the description of adverse events (AEs), serious	
	adverse events (SAEs), laboratory measurements and clinical examinations.	
	,,	
Pharmacogenomics	Pharmacogenomic analyses were conducted to correlate molecular parameters in	
	patients' tumor samples with clinical outcome (objective response and PFS).	
Statistical methodology	Descriptive statistics were used for this open, non-comparative study. Non-continuous	
	variables were described in frequency tables using counts and percentages. Continuous	
	variables were described by median, minimum and maximum.	
	Efficacy	
	For evaluation of the primary endpoint (objective tumor response rate), binomial exact	
	estimator and its 95% confidence interval (CI) were calculated. Median time-to-event parameters (DR and PFS) and their fixed-time estimates were analyzed using the	
	Kaplan-Meier method. Changes in tumor volume (three dimensional analysis) and tumor radiological density.	
	Changes in tumor volume (three-dimensional analysis) and tumor radiological density	
	were calculated by the independent central review and were assessed based on preestablished thresholds.	
	Safety	
	Descriptive statistics were used to characterize the toxicity, drug-related deaths, SAEs	
	and toxicity-related treatment discontinuation profiles. AEs were graded according to	
	the NCI-CTC v.3.0 and coded with the Medical Dictionary for Regulatory Activities	
	(MedDRA) v.6.1.	
	<u>Pharmacogenomics</u>	
	All pharmacogenomic analyses were hypothesis-generating and exploratory. The first	
	of these analyses was to be conducted on the futility analysis population (see below).	
	Futility Analysis	
	A futility analysis was conducted after 36 evaluable patients had been recruited in each	
	group to give advice to the Sponsor regarding the conduct of the clinical trial. The cut-	
	off date for each futility analysis was 16 weeks after the first infusion date of the 36 th evaluable patient in each group. At that time, the analyses were based on the primary	
	endpoint (objective tumor response rate). The O'Brien Fleming boundary was used for	
	each analysis. If there were five or less responses at the time of analysis, according to	
	boundaries and sample size assumptions, the alternative hypothesis would be rejected	
	and the recruitment of that group would be stopped.	
Results (1):	Group A (triple negative profile)	
Patient characteristics	Most patients (n=36, 72.0%) were Caucasian, their median age was 51 years (range,	
	27-77 years), and 26 (52.0%) had ECOG PS = 1.	
	Most primary tumors were ductal carcinomas (n=44, 88.0%). The most frequent stages	
	at diagnosis were II (n=23, 46.0%) and III (n=19, 38.0%). All patients were negative	
	for ER, PR and HER-2 expression. The median number of sites involved per patient	
	was 2 (range, 1-6 sites). The most common disease locations were lymph nodes (n=31,	
	62.0%), lung (n=21, 42.0%), liver (n=20, 40.0%) and bone (n=10, 20.0%).	
	Forty-four patients (88.0%) had previously received radiotherapy. All patients had	
	undergone previous surgery and received prior chemotherapy alone (n=26, 52.0%) or	
	combined with biological therapy (n=21, 42.0%). The median number of lines and	
	agents of prior chemotherapy (including adjuvant and neoadjuvant therapies) was three	
	(range, 1-5 lines) and five (range, 3-10 agents), respectively. As defined per protocol, all patients had received prior anthracyclines and taxanes.	
	Group B (HER-2 overexpressing tumors)	
	Most patients (n=35, 94.6%) were Caucasian, their median age was 54 years (range,	
	38-75 years), and 16 (43.2%) had ECOG PS = 1.	
	Most primary tumors were ductal carcinomas (n=32, 86.5%). The most frequent stages	
i		
	at diagnosis were II and III (n=15 each, 40.5%). All were positive for HER-2	

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Trabectedin	The most common disease locations were lym	nnh nodes (n=20 54 1%) liver (n=17
	The most common disease locations were lymph nodes (n=20, 54.1%), liver (n=17, 45.9%), lung (n=16, 43.2%) and bone (n=16, 43.2%).	
	Twenty-seven patients (73.0%) had previously received radiotherapy. All patients had undergone previous surgery and received prior chemotherapy combined with anti-HER-2 therapy alone (n=20, 54.1%) or with anti-HER-2 and hormone therapy (n=17,	
	45.9%). The median number of lines and agents of prior chemotherapy (including	
	adjuvant and neoadjuvant therapies) was three (range, 1-7 lines) and five (range, 1-7	
	agents), respectively. The most frequent prior anticancer agents were taxanes (n=35, 94.6%), anthracyclines (n=32, 86.5%), and pyrimidine analogues (n=30, 81.1%).	
	Group C (BRCA1/2 mutation carriers)	
	Most patients (n=38, 95.0%) were Caucasian, their median age was 47 years (range, 30-59 years), and 23 (57.5%) had ECOG PS = 1.	
	Most primary tumors were ductal carcinomas (n=35, 87.5%). Twelve patients (30.0%)	
	had stage II disease and 15 (37.5%) had stage III disease at diagnosis. Fourteen patients (35.0%) were positive for ER expression and 12 (30.0%) were positive for PR	
	expression. Seven patients (17.5%) were positive for HER-2 expression. All patients	
	in this group were positive for BRCA1 and/or BRCA2 mutation. The median number	
	of sites involved per patient was 2 (range, 1-6 sites). The most common disease	
	locations were lymph nodes (n=26, 65.0%), lung (n=19, 47.5%), liver (n=18, 45.0%)	
	and bone (n=15, 37.5%).	
	Thirty-three patients (82.5%) had previously received radiotherapy. All patients had undergone previous surgery and received prior chemotherapy alone (n=12, 30.0%) or combined with biological therapy (n=13, 32.5%), with hormone therapy (n=9, 22.5%), or with biological and hormone therapy (n=6, 15.0%). The median number of the provided prior characters of prior characters were found (n=0, 10.1%) and size (n=0, 1.10.1%).	
	and agents of prior chemotherapy was four (range, 1-10 lines) and six (range, 1-10 agents), respectively. The most frequent prior anticancer agents were anthracyclines (n=37, 92.5%) and taxanes (n=37, 92.5%).	
Results (2):	A total of 112 enrolled and treated patients in all three groups were evaluable for the	
<u>Efficacy</u>	primary efficacy endpoint (confirmed objective tumor response rate) by an independent expert review.	
	No confirmed objective responses were obtained in 43 evaluable patients in Group A	
	(triple negative profile). In Group B (HER-2 overexpressing tumors), four of 34 evaluable patients showed PR, thereby giving a confirmed objective tumor response rate of 11.8% (95% CI: 3.3%-27.5%). Six of 35 evaluable patients in Group C	
	(BRCA1/2 mutation carriers) achieved PR, which resulted in a confirmed objective tumor response rate of 17.1% (95% CI: 6.6%-33.6%).	
	Concerning the secondary efficacy endpoints, i	
	6.2-14.7 months) in Group B, and was not reac	
	not reached) in Group C. The longest median months; 95% CI, 1.6-5.5 months). In Group I	B it was 3.8 months (95% CI, 1.8-5.5
	months) and Group A had the shortest median PFS (2.2 months; 95% CI, 1.3-2.7 months). Likewise, changes in tumor volume and tumor radiological density according	
	to the independent central review were less com	
	two groups. Changes in tumor volume were f	
	19.4% in Group B and 21.1% in Group C,	while changes in tumoral radiological
	density occurred in 32.0% of patients in Group Group C.	p A, 47.2% in group B and 44.7% in
Results (3):	One hundred and twenty-four patients received	at least one infusion of trabectedin in
<u>Safety</u>	this study and therefore were evaluable for	
	administered per patient was 3 (range, 1-29).	
	The most common AEs related to trabected	
	disorders: fatigue (66 patients, 53.2%; grade patients, 48.4%; grade 3 in two patients, 1.6	
	grade 3 in two patients, 1.6%) and vomiting	

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	patients, 4.8%). Thirty-eight patients (30.6%) had trabectedin-related grade ≥3 AEs,	
	the most frequent being fatigue (n=12, 9.7%), febrile neutropenia (n=8, 6.5%), and	
	vomiting (n=6, 4.8%). Most patients were able to continue treatment. Six patients	

patients, 4.8%). Thirty-eight patients (30.6%) had trabectedin-related grade ≥3 AEs, the most frequent being fatigue (n=12, 9.7%), febrile neutropenia (n=8, 6.5%), and vomiting (n=6, 4.8%). Most patients were able to continue treatment. Six patients discontinued treatment due to trabectedin-related AEs: grade 3 muscular weakness and grade 1 fatigue; grade 2 nausea, grade 2 anorexia, grade 2 dizziness, grade 3 fall (associated with the aforementioned grade 2 dizziness), grade 3 dehydration and grade 4 fatigue; grade 2 hepatotoxicity; grade 3 congestive cardiac failure; and grade 3 cardiac failure; and liver toxicity (reported as transient grade 1 ALT/AST increase; see below).

No deaths occurred due to trabectedin-related AEs.

Nineteen patients had trabectedin-related SAEs. They comprised grade 3/4 febrile neutropenia (n=4), grade 3/4 neutropenia (n=3), grade 2/3 anemia, grade 4 pancytopenia, grade 4 thrombocytopenia, grade 2/3 congestive cardiac failure (n=2 each), grade 3 aplasia, grade 4 leukopenia, grade 3 cardiac failure, grade 2 palpitations, grade 3 nausea, grade 4 fatigue, grade 4 hepatotoxicity, grade 3 ejection fraction decreased, grade 4 transaminases increased, grade 3 dehydration, grade 3 renal failure acute, grade 3 deep venous thrombosis, grade 3 thrombosis, and grade 3 phlebitis (n=1 each). Most of these SAEs resolved without having any effects on trabectedin treatment: only four patients required cycle delays and/or dose reductions, and only three patients discontinued treatment.

The most common hematological abnormality was leukopenia (108 patients), followed by lymphopenia (106 patients) and anemia (103 patients). No dose reductions resulted from these abnormalities. Neutropenia was reported in 92 patients and reached grade 4 in 31 of them. In addition, nine patients had febrile neutropenia. Severe neutropenia appeared on Day 15 (range, 8-34) after dosing; most cases lasted 15 days or less and returned to grade ≤ 2 between Day 22 and Day 28. Transient neutropenia alone or concomitant with other adverse events or abnormalities was the most common cause of treatment-related cycle delay and dose reduction in this study. Febrile neutropenia also caused cycle delays and dose reductions in one and three patients, respectively. Thrombocytopenia occurred in 53 patients and reached grade 4 in ten patients. Severe thrombocytopenia appeared on Day 15 (range, 8-22) after dosing, mostly lasted 15 or less days, and returned to >100 x 10 $^9/1$ at >28 days after administration. Thrombocytopenia was the reason for dose delay in nine patients and for dose reduction in five patients. No treatment discontinuations occurred due to hematological abnormalities.

The most frequent biochemical abnormality was transaminases increases. ALT increases were found in 106 patients (grade 3/4 in 51 patients), and AST increases in 99 patients (grade 3 in 20 patients). Severe transaminase increases appeared on Day 8 (range, 4-23 days for ALT and 4-15 days for AST) after dosing and mostly lasted 15 days or less, returning to grade 1 before Day 22. Transaminase increases caused cycle delays in six patients and dose reductions in seven patients. In addition, one patient discontinued treatment due to transient grade 1 ALT/AST increase. Other biochemical abnormalities were less common and were mostly grade 1 or 2. Grade 3/4 CPK increases occurred in seven patients, and alone or concomitantly with transaminase increases were the cause of delays in two patients and dose reductions in three patients. Grade 3 AP increase was reported in one patient only, concomitantly with grade 3 ALT/AST increase and grade 4 GGT increase, and had no effects on treatment. Grade 3 bilirubin increases occurred in four patients; one of these patients fulfilled Hy's Law criteria. Nevertheless, she developed bilirubin increase after completion of concomitant intensive treatment with several antibiotic agents known to produce liver dysfunction. Two patients had dose reduction due to bilirubin increase.

Results (4): Pharmacogenomics

Seventy-nine treated patients consented to undergo the PGx substudy. Paraffinembedded tumor tissue samples were obtained from 65 of these patients. No tumor was detected in samples from 16 patients, and the amount and quality of extracted RNA was too low for analysis in samples from five other. Thus, RNA expression data

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	was available for tumor samples from 44 patie	nts: 22 from Group A, 12 from Group	
	B, and 10 from Group C.		
	High XPG mRNA expression was associated with a better outcome after trabectedin		
	treatment. All responder patients evaluated in		
	expression > 2.54. Furthermore, patients with		
	longer median PFS compared to patients with		
	the overall PGx population (4.0 vs. 1.6 months		
	1.8 months; Groups B and C together: 4.9 vs. 1.		
Conclusions	No recommendation is given for further evaluation of trabected in 1.3 mg/m ² 3-hour		
	q3wk as treatment of patients with metastatic breast cancer negative for ER, PR and		
	HER-2 expression. Evidence of antitumor activity has been found for this trabectedin		
	dose and schedule in patients overexpressing HER-2 or with BRCA1 or BRCA2		
	mutations. XPG mRNA overexpression was associated with a better clinical outcome.		
	This trabectedin schedule has an acceptable tole		
	mild or moderate, reversible and predictable. No	o new safety issues were identified.	
Date of report	11 March 2013.		
(final version)			

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