

Short Study Report to Authorities

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Title of the Study	Randomized Phase II trial of Docetaxel (Taxotere) and Oblimersen (antisense oligonucleotide directed to bcl-2) vs. Taxotere alone in patients with hormone-refractory prostate cancer																																					
Investigators & Study Centers	<table border="1"> <thead> <tr> <th data-bbox="523 958 1241 994"></th> <th data-bbox="1249 958 1369 994">N (%)</th> </tr> </thead> <tbody> <tr> <td data-bbox="523 1005 1241 1041">Institution Name (Physician's name)</td> <td></td> </tr> <tr> <td data-bbox="523 1048 1241 1106">U.Z. Leuven (Pr. Allan T. Van Oosterom) Herestraat 49 BE 3000 Leuven Belgium</td> <td data-bbox="1249 1048 1369 1084">20 (17.4)</td> </tr> <tr> <td data-bbox="523 1113 1241 1196">MARIA SKLODOWSKA-CURIE CANCER CENTER-INSTITUTE OF ONCOLOGY (Dr. Iwona Skoneczna) Ulica Wawelska 15 PL 02 034 Warsaw 22 Poland</td> <td data-bbox="1249 1113 1369 1149">19 (16.5)</td> </tr> <tr> <td data-bbox="523 1202 1241 1261">SAN CAMILLO AND FORLANINI HOSPITALS (Dr. Cora Sternberg) Circonvallazione Gianicolense, 87 IT 00152 Roma Italy</td> <td data-bbox="1249 1202 1369 1238">14 (12.2)</td> </tr> <tr> <td data-bbox="523 1267 1241 1326">ASSAF HAROFEH MEDICAL CENTER (Dr. Avishay Sella) IL 70300 Zerifin Israel</td> <td data-bbox="1249 1267 1369 1303">10 (8.7)</td> </tr> <tr> <td data-bbox="523 1332 1241 1391">RIGSHOSPITALET (Dr. Gedske Daugaard) Blegdamsvej 9 DK 2100 Copenhagen Denmark</td> <td data-bbox="1249 1332 1369 1368">9 (7.8)</td> </tr> <tr> <td data-bbox="523 1397 1241 1456">INSTITUT JULES BORDET (Dr. Thierry Gil) Rue Heger-Bordet, 1 BE 1000 Brussels Belgium</td> <td data-bbox="1249 1397 1369 1433">7 (6.1)</td> </tr> <tr> <td data-bbox="523 1462 1241 1520">ONZE LIEVE VROUW ZIEKENHUIS (Dr. Paul Carpentier) Moorselbaan BE 9300 Aalst Belgium</td> <td data-bbox="1249 1462 1369 1498">7 (6.1)</td> </tr> <tr> <td data-bbox="523 1527 1241 1585">WESTERN INFIRMARY (Dr. John Graham) Dumbarton Road GB Glasgow G11 6NT United Kingdom</td> <td data-bbox="1249 1527 1369 1563">7 (6.1)</td> </tr> <tr> <td data-bbox="523 1592 1241 1650">ACADEMISCH MEDISCH CENTRUM (Pr. Dirk J. Richel) Meibergdreef 9 NL 1105 AZ Amsterdam The Netherlands</td> <td data-bbox="1249 1592 1369 1628">6 (5.2)</td> </tr> <tr> <td data-bbox="523 1657 1241 1715">KAISER FRANZ JOSEF SPITAL (Dr. Maria De Santis) Kundratstr. 3 AT 1100 Vienna Austria</td> <td data-bbox="1249 1657 1369 1693">6 (5.2)</td> </tr> <tr> <td data-bbox="523 1722 1241 1780">UNIVERSITEIT GENT (Pr. A. Verbaeys) De Pintelaan 185 BE 9000 Gent Belgium</td> <td data-bbox="1249 1722 1369 1758">3 (2.6)</td> </tr> <tr> <td data-bbox="523 1787 1241 1845">CHR DE GRENOBLE - LA TRONCHE (Dr. François. Ringeisen) BP 217 X FR 38043 Grenoble CEDEX France</td> <td data-bbox="1249 1787 1369 1823">2 (1.7)</td> </tr> <tr> <td data-bbox="523 1852 1241 1910">HOSPITAL GENERAL VALL D'HEBRON (Dr. Joaquim Bellmunt) Pg. Vall d'Hebron, 119-129 ES 08035 Barcelona Spain</td> <td data-bbox="1249 1852 1369 1888">2 (1.7)</td> </tr> <tr> <td data-bbox="523 1917 1241 1975">KLINIKUM KASSEL GMBH (Pr. Peter Albers) Moenchenbergstrasse 41-43 DE 34125 Kassel Germany</td> <td data-bbox="1249 1917 1369 1953">2 (1.7)</td> </tr> <tr> <td data-bbox="523 1982 1241 2040">HOSPITAL DO DESTERRO (Dr. Fernando Calais Da Silva) Rua Nova do Desterro 1169 PT 1000 Lisboa Portugal</td> <td data-bbox="1249 1982 1369 2018">1 (0.9)</td> </tr> <tr> <td data-bbox="523 2047 1241 2083">TOTAL</td> <td data-bbox="1249 2047 1369 2083">115 (100.0)</td> </tr> </tbody> </table>			N (%)	Institution Name (Physician's name)		U.Z. Leuven (Pr. Allan T. Van Oosterom) Herestraat 49 BE 3000 Leuven Belgium	20 (17.4)	MARIA SKLODOWSKA-CURIE CANCER CENTER-INSTITUTE OF ONCOLOGY (Dr. Iwona Skoneczna) Ulica Wawelska 15 PL 02 034 Warsaw 22 Poland	19 (16.5)	SAN CAMILLO AND FORLANINI HOSPITALS (Dr. Cora Sternberg) Circonvallazione Gianicolense, 87 IT 00152 Roma Italy	14 (12.2)	ASSAF HAROFEH MEDICAL CENTER (Dr. Avishay Sella) IL 70300 Zerifin Israel	10 (8.7)	RIGSHOSPITALET (Dr. Gedske Daugaard) Blegdamsvej 9 DK 2100 Copenhagen Denmark	9 (7.8)	INSTITUT JULES BORDET (Dr. Thierry Gil) Rue Heger-Bordet, 1 BE 1000 Brussels Belgium	7 (6.1)	ONZE LIEVE VROUW ZIEKENHUIS (Dr. Paul Carpentier) Moorselbaan BE 9300 Aalst Belgium	7 (6.1)	WESTERN INFIRMARY (Dr. John Graham) Dumbarton Road GB Glasgow G11 6NT United Kingdom	7 (6.1)	ACADEMISCH MEDISCH CENTRUM (Pr. Dirk J. Richel) Meibergdreef 9 NL 1105 AZ Amsterdam The Netherlands	6 (5.2)	KAISER FRANZ JOSEF SPITAL (Dr. Maria De Santis) Kundratstr. 3 AT 1100 Vienna Austria	6 (5.2)	UNIVERSITEIT GENT (Pr. A. Verbaeys) De Pintelaan 185 BE 9000 Gent Belgium	3 (2.6)	CHR DE GRENOBLE - LA TRONCHE (Dr. François. Ringeisen) BP 217 X FR 38043 Grenoble CEDEX France	2 (1.7)	HOSPITAL GENERAL VALL D'HEBRON (Dr. Joaquim Bellmunt) Pg. Vall d'Hebron, 119-129 ES 08035 Barcelona Spain	2 (1.7)	KLINIKUM KASSEL GMBH (Pr. Peter Albers) Moenchenbergstrasse 41-43 DE 34125 Kassel Germany	2 (1.7)	HOSPITAL DO DESTERRO (Dr. Fernando Calais Da Silva) Rua Nova do Desterro 1169 PT 1000 Lisboa Portugal	1 (0.9)	TOTAL	115 (100.0)
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Publication (reference)	<p>The overall study data have not been published yet, however, publications about part of the data have been presented at the 2007 ASCO prostate cancer symposium:</p> <p>C. N. STERNBERG, H. DUMEZ, H. VAN POPPEL, I. SKONECZNA, A. SELLA, G. DAUGAARD, T. GIL, J. GRAHAM, P. CARPENTIER, L. COLLETTE for the EORTC Genitourinary Group, Brussels, Belgium. Multicenter randomized EORTC trial 30021 of Docetaxel + Oblimersen and Docetaxel in patients (pts) with hormone refractory prostate cancer (HRPC). ASCO Prostate Cancer Symposium, Orlando, Florida, 22-24 February 2007 (Oral).</p>															
Objective(s)	<p>The primary objective of the trial is to evaluate the toxicity and activity (in terms of PSA response) of the combination of docetaxel and oblimersen in hormone refractory prostate cancer. The group treated with docetaxel alone will serve as a reference group to further validate the sample used in the trial. The trial is based on a Bryant and Day design and therefore two primary endpoints are considered :</p> <ul style="list-style-type: none"> • PSA response • Major toxic event <p><i>Success criterion required lower bound of 80%CI for PSA response (Bublely) rate > 30% and upper bound of 80%CI for major toxic event rate <45%. RECIST was used for measurable lesions</i></p> <p>The secondary objectives of the trial are to assess time to progression, progression-free survival, toxicity and overall survival in the two treatment groups.</p>															
Methodology	Randomized Phase II trial															
Number of patients Number planned (Statistical design) Number analyzed	<p>115 entered Planned sample size 102 patients in the “per protocol population”.</p> <p>Number of Patients analyzed : 115</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Analysis Population</th> </tr> <tr> <th></th> <th style="text-align: right;">(N=115)</th> </tr> <tr> <th></th> <th style="text-align: right;">N (%)</th> </tr> </thead> <tbody> <tr> <td>Intent-to-treat Population (ITT)</td> <td style="text-align: right;">115 (100.0)</td> </tr> <tr> <td>Per Protocol Population (PP)</td> <td style="text-align: right;">111 (96.5)</td> </tr> <tr> <td> PP with measurable disease</td> <td style="text-align: right;">49 (44.1)</td> </tr> <tr> <td>Safety Population</td> <td style="text-align: right;">111 (96.5)</td> </tr> </tbody> </table>		Analysis Population			(N=115)		N (%)	Intent-to-treat Population (ITT)	115 (100.0)	Per Protocol Population (PP)	111 (96.5)	PP with measurable disease	49 (44.1)	Safety Population	111 (96.5)
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Diagnosis and main criteria for inclusion	<ul style="list-style-type: none"> • Prostate cancer patients with PSA progression under prior hormonal treatment (Bubley criteria) – PSA \geq 5 ng/ml. • No evidence of painful and / or destructive bone metastases for which RT, bisphosphonates or bone-seeking radionucleotides are considered necessary. No brain metastases • Castrate level of testosterone (\leq 50 ng/ml). Patients on medical castration (LHRH) must continue treatment. • No pre-treatment with chemotherapy (prior Estramustine allowed). No prior use of bone-seeking radionucleotides nor RT involving > 25 % of marrow producing area. Prior bisphosphonates allowed. • WHO performance status 0-2 	
Treatment Test product, dose and mode of administration (batch number if applicable) Duration of treatment	Oblimersen 7 mg/kg/day d1- 7 of each cycle Docetaxel 75 mg/m ² is given with dexamethasone premedication over 60 minutes on d5 of each cycle. Cycle duration is 3 weeks 12 cycles of treatment	
Reference therapy, dose and mode of administration (batch number if applicable)	Docetaxel 75 mg/m ² is given with dexamethasone premedication over 60 minutes on d1 of each cycle. Cycle duration is 3 weeks	
Criteria for evaluation Efficacy	<p>Primary endpoint: <i>PSA response</i></p> <p>Secondary endpoints: <i>Time to progression, Overall survival, Progression-free survival.</i></p> <ul style="list-style-type: none"> • PSA response defined as a 50% decline from baseline value confirmed by a second value obtained at least 4 weeks apart according to Bubley (Bubley GJ, Carducci M, Dawson N, Daliani D, Eisenberger M, Figg WD et al. Eligibility and response 	

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<p>guidelines for phase II clinical trials in androgen-independent prostate cancer: recommendations from the Prostate-Specific Antigen Working Group. <i>J Clin Oncol</i> 1999;17(11):3461-7; with erratum in <i>J Clin Oncol</i> 2000; 18(13): 2644)</p> <ul style="list-style-type: none"> • PSA progression is defined as follows: <ol style="list-style-type: none"> 1. For patients without PSA decrease since entry on study, progression is an increase of 25% over baseline value, by at least 5 ng/ml (HYBRITECH equivalent). 2. For patients whose PSA has decreased but has not reached the response criteria, progressive disease is defined as an increase of 25% in PSA value taking as reference the nadir provided that this increase in the absolute value exceeds 5 ng/ml (HYBRITECH equivalent). 3. For patients who had a PSA response, progressive disease is defined as a 50% increase over the nadir if it is more than 5ng/ml (HYBRITECH equivalent). <p>The date of PSA progression is the date of the first PSA increase defined according to the definition of PSA progression as defined above.</p> <p>To be assigned a status of PSA progression, changes in the PSA level should be confirmed by repeated measures that should be performed not less than 4 weeks after the first 25% or 50% increase (progression, see above).</p> <ul style="list-style-type: none"> • Objective response and progression criteria are essentially based on a set of measurable lesions identified at baseline as target lesions, and followed until disease progression. In this trial, only few patients are expected to present with measurable disease at entry on study. <p>The complete criteria are included in the published RECIST document (P. Therasse, S.G. Arbuck, E. Eisenhauer et al. New Guidelines to Evaluate the Response to Treatment in Solid Tumors. <i>JNCI</i> 92:3, 2000) also available at http://ww3.oup.co.uk/jnci/extra/920205.pdf.</p> <p>The date of first objective progression is the first date when one or more of the above criteria are met.</p> <ul style="list-style-type: none"> • Time to progression is counted from the date of randomization to the date of the first event of PSA progression (as defined above) or objective clinical progression or death due to the disease. Patients who start another treatment in absence of disease progression will be considered as failures at the time they started the new treatment. Patients without the event of interest will be censored at the date of most recent follow-up visit. • Overall survival is counted from the date of randomization. Patients who die are reported as events, irrespective of the cause of death. Patients without the event of interest are censored at the time of most recent follow-up visit. Overall survival duration therefore is the number of days elapsed between the day of randomization and the day of death or most recent follow-up visit. 		

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<p>Safety</p>	<ul style="list-style-type: none"> • Progression-free survival is counted from the date of randomization until the date of first progression as defined above or the date of death, whichever occurs first. Patients who start another treatment in absence of disease progression will be considered as failures at the time they started the new treatment. Patients without the event of interest are censored at the time of most recent follow-up visit. Progression-free survival duration is therefore the number of days elapsed between the day of randomization and the minimum of the date of PSA progression, the date of objective clinical progression, the date of death or most recent follow-up visit <p>Primary endpoint: <i>Major toxic event</i></p> <p>Secondary endpoints: <i>Adverse events (CTCAE, version 3.0)</i></p> <p>Major toxic event:</p> <p>Severe toxic events are defined as any events of</p> <ul style="list-style-type: none"> • Any grade 4 haematological and non hematological toxicity except asymptomatic grade 4 neutropenia ($ANC < 500/mm^3$) lasting less than 7 days • Febrile neutropenia grade 3 for > 5 days or any Grade 4 febrile neutropenia • Sepsis (=grade 3 or 4) • Severe (grade 3 or 4) hemorrhage-bleeding associated with grade > 2 thrombocytopenia ($< 50.000/mm^3$) • Renal toxicity grade 3 or 4 (serum creatinine > 3xULN or need of dialysis) • Stop of treatment due to unacceptable toxicity • Death at least possibly due to toxicity 	
<p>Statistical methods</p>	<p>This trial is a randomized phase II design. A 1-stage Bryant and Day decision rule will be applied separately to the two treatment arms.</p> <p>The two primary endpoints of the trial are PSA response and Major toxic events</p> <p>The parameters of the design are:</p> <ul style="list-style-type: none"> ◆ Type I error rate (α) for the endpoint major toxic event: 10% ◆ Type I error rate (α) for the endpoint PSA response: 10% ◆ Type II error rate (β) for both endpoints: 10% ◆ P0 (maximum <u>insufficient</u> response rate): 30% ◆ P1 (minimum <u>acceptable</u> response rate): 50% ◆ T0 (maximum <u>unacceptable</u> rate without severe toxic event: 55% (i.e.: minimum <u>unacceptable</u> severe toxic event rate 45%) ◆ T1 (minimum <u>acceptable</u> rate without severe toxic event): 75% (i.e.: maximum <u>acceptable</u> severe toxic event rate 25%) <p>According to this design, the study requires 51 patients in each treatment group. The main analysis of the primary trial endpoints is carried out in the “per protocol</p>	

