

## Protocol Synopsis

<b>Title of the study</b>	Phase II study to confirm the effectiveness of Bendamustine in adjunct to Etoposide, Aracytin and Melphalan (BeEAM) as a preparative regimen for autologous stem cell transplantation in resistant/relapsed Aggressive B-cell non-Hodgkin Lymphoma patients.
<b>Principal Investigator</b>	Giuseppe Visani, MD
<b>EUDRACT code</b>	2011-001246-14
<b>Type and number of subjects</b>	Adult <del>agressive</del> <u>aggressive</u> B-cell non-Hodgkin lymphoma patients.
<b>Primary Objective</b>	<ul style="list-style-type: none"> <li>• To assess the 1-year complete remission (CR) rate.</li> </ul>
<b>Secondary Objectives</b>	<ul style="list-style-type: none"> <li>• To assess the safety of the regimen</li> <li>• To assess the disease-free survival</li> <li>• To assess the overall survival</li> </ul>
<b>Study design</b>	Open-label, non-randomized, multicentric, Phase II study
<b>Number of patients and time frame</b>	<del>100 patients will be enrolled in 12-18 months</del> <u>66 patients will be enrolled</u>
<b>Inclusion Criteria</b>	<ul style="list-style-type: none"> <li>• Aggressive B-Cell non-Hodgkin lymphoma patients either resistant or relapsed</li> <li>• Age &gt;18 and &lt;70 years</li> <li>• Signed Informed Consent</li> <li>• Karnofsky score &gt; 70%</li> <li>• Adequate hematologic, renal, pulmonary and hepatic function.</li> </ul>
<b>Exclusion criteria</b>	<ul style="list-style-type: none"> <li>• HIV infection</li> <li>• Secondary lymphoma following prior chemotherapy/ radiotherapy or an active second malignancy</li> <li>• Pregnancy or nursing</li> <li>• Absence of patient's written informed consent</li> <li>• Current uncontrolled infections</li> </ul>

	<ul style="list-style-type: none"> <li>• Intercurrent organ damage or medical problems that would interfere with therapy</li> </ul>
<b>Criteria for evaluation</b>	<p><u>Safety:</u> Incidence of adverse events (graded according to WHO) and clinically significant abnormal laboratory value after BeEAM chemotherapy followed by the reinfusion of autologous hematopoietic stem cells</p> <p><u>Efficacy:</u> Assessment of the percentage of patients entering CR after BeEAM chemotherapy followed by the reinfusion of autologous hematopoietic stem cells. Disease-free survival. Overall survival.</p>
<b>Chemotherapy Schedule</b>	<ul style="list-style-type: none"> <li>• Bendamustine 200 mg/m<sup>2</sup> on day -7 and -6</li> <li>• Aracytin 400 mg/m<sup>2</sup> from day -5 to day -2</li> <li>• Etoposide 200 mg/m<sup>2</sup> from day -5 to day -2</li> <li>• Melphalan 140 mg/m<sup>2</sup> on day -1</li> <li>• Autologous stem cell transplantation on day 0</li> </ul> <p>All patients will be hospitalized during the study treatment, until the complete hematological recovery has occurred.</p>
<b>Statistical analysis</b>	<p>This study is designed according to Fleming's method.</p> <p>The primary outcome is the 1-year Complete Remission Rate.</p> <p>Fixing the lowest acceptable rate as 55% and the successful rate as 70%, with a significance level <math>\alpha=0.05</math> and a power <math>1-\beta = 0.90</math> <u>0.80</u>, the sample size was estimated in <u>88 64</u> patients.</p> <p>Considering a possible drop-out rate of <u>403</u>%, the number of patients entering the protocol is fixed to <u>400 66</u>.</p>