

**PHASE II STUDY OF REDUCED-INTENSITY ALLOGENEIC STEM CELL TRANSPLANT FOR HIGH-RISK CHRONIC LYMPHOCYTIC LEUKEMIA (CLL)**

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**Patient Eligibility**

**Diagnosis of B-CLL or B-SLL according to IWCLL 2008 Criteria:**

**Early Disease Cohort (must include one or more of the following):**

- FISH showing deletion of 17p in  $\geq 20\%$  of cells (either at diagnosis or any time prior to study entry) either alone or in combination with other cytogenetic abnormalities.
- FISH showing del11q in  $\geq 20\%$  of cells (either at diagnosis or any time prior to study entry) either alone or in combination with other cytogenetic abnormalities unless the patient has achieved a complete remission by IWCLL 2008 Criteria which includes CT scan, bone marrow morphology and flow cytometry.
- Failure to achieve a partial response with initial chemotherapy, but with lack of progression. These patients may receive a second therapy to improve their response prior to transplant.
- In addition, patients in the early disease cohort *must have all of the following*:
  - receive at least 2 cycles of induction therapy (see Section 4.1.1.4);
  - stable disease or better by NCI Criteria to most recent therapy (i.e., no prior progression);
  - nodes  $\leq 5$  cm.

**Advanced Disease Cohort (must include one or more of the following):**

- FISH showing deletion of 17p in  $\geq 20\%$  of cells (regardless of interval from initial therapy) either alone or in combination with other cytogenetic abnormalities.
- First progression  $< 24$  months after initial regimen. This includes progression on initial therapy.
- Second or subsequent progression.
- In addition, patients in the advanced disease cohort *must have all of the following*:
  - stable disease or better by NCI Criteria to their most chemotherapy;
  - nodes  $\leq 5$  cm.

ECOG Performance Status 0-2.

Age  $\geq 18$  years and  $< 70$ .

At least 4 weeks after start of last cycle of cytotoxic chemotherapy, or alemtuzumab.

No HIV infection (see Section 4.5).

No hepatitis B sAg, anti-HBc or HCV Ab positive.

DLCO  $\geq 40\%$  predicted.

LVEF by ECHO or MUGA  $\geq 30\%$

No uncontrolled diabetes mellitus or active uncontrolled serious infections.

Non-pregnant and non-nursing.

**Initial Required Laboratory Values**

Serum Creatinine	$< 2$ mg/dL
Calculated Creatinine Clearance	$\geq 40$ mL/min
AST	$< 3 \times$ ULN
Total Bilirubin	$< 2$ mg/dL*

\*except for Gilbert's syndrome

**Donor Eligibility Criteria (Sec. 5.0)**

Donors may be either a 6/6 HLA-matched related donor. Donors may be a 8/8 matched unrelated donor at HLA A, B, C, DR. Unrelated donors will be analyzed by molecular typing at both HLA Class I and Class II (A, B, C, DR loci). Donors must be healthy and must be an acceptable donor as per institution standards for stem cell donation. Syngeneic donors are not eligible. There is no donor age restriction.

**SCHEMA**

Patients must be registered prior to initiation of preparative regimen. In any patient, institutions may elect to use **EITHER** Preparative Regimen #1 **OR** Preparative Regimen #2.





