

**COG-AALL1732: A Phase 3 Randomized Trial of Inotuzumab Ozogamicin (IND#:133494, NSC#: 772518)
for Newly Diagnosed High-Risk B-ALL; Risk-Adapted Post-Induction Therapy for High-Risk B-ALL,
Mixed Phenotype Acute Leukemia, and Disseminated B-LLy**

FAST FACTS

Eligibility Reviewed and Verified By

_____ MD/DO/RN/LPN/CRA Date _____

_____ MD/DO/RN/LPN/CRA Date _____

Consent Version Dated _____

PATIENT ELIGIBILITY:

Important note: The eligibility criteria listed below are interpreted literally and cannot be waived (per COG policy posted 5/11/01). All clinical and laboratory data required for determining eligibility of a patient enrolled on this trial must be available in the patient's medical research record which will serve as the source document for verification at the time of audit.

- ___1. All clinical and laboratory studies to determine eligibility must be performed within 7 days prior to the start of protocol-directed systemic therapy, unless otherwise indicated. Diagnostic biopsy for B-LLy must be performed within 14 days prior to enrollment. Imaging studies, if applicable, must be obtained within 14 days prior to start of protocol therapy (repeat the tumor imaging if necessary).
- ___2. Timing
- ___3. **PATIENTS WITH B-ALL OR MPAL MUST CONSENT TO ELIGIBILITY SCREENING (PART A) AND BE ENROLLED ON PROJECT:EVERYCHILD (APEC14B1) AND SUBMIT A DIAGNOSTIC SAMPLE BEFORE RECEIVING ANY SYSTEMIC PROTOCOL THERAPY ON AALL1732.** (For the purpose of this study, "systemic protocol therapy" does not include the first dose of intrathecal chemotherapy or selected cases of steroid pretreatment). **PATIENTS THAT BEGIN SYSTEMIC PROTOCOL THERAPY PRIOR TO ENROLLMENT ON APEC14B1 ARE INELIGIBLE FOR AALL1732.**
- ___4. **B-LLy PATIENTS MUST SUBMIT SAMPLES FOR CENTRAL RETROSPECTIVE PATHOLOGY REVIEW. SPECIFIC INSTRUCTIONS REGARDING REQUIRED TISSUE SUBMISSION ARE OUTLINED IN [SECTION 13.0](#). EVERY EFFORT SHOULD BE MADE TO ACQUIRE AS MUCH TISSUE AS POSSIBLE.**
- ___5. **PATIENTS WITH B-LLy ARE ELIGIBLE FOR PROJECT:EVERYCHILD (APEC14B1) BUT ENROLLMENT IS NOT AN ELIGIBILITY REQUIREMENT FOR AALL1732.**
- ___6. **All Patients:**
Study enrollment on AALL1732 must take place within **five (5)** calendar days of beginning protocol therapy. If enrollment takes place before starting therapy, the date protocol therapy is projected to start must be no later than **five (5)** calendar days after enrollment.
Patients must meet all eligibility criteria prior to the start of protocol therapy or enrollment, whichever occurs first. All clinical and laboratory studies to determine eligibility must be performed within 7 days prior to the start of protocol-directed systemic therapy, unless otherwise indicated in the eligibility section below. Diagnostic biopsy for B-LLy must be performed within 14 days prior to enrollment.
- ___7. **Initiation of systemic protocol therapy:** Systemic Induction chemotherapy, with the exception of steroid pretreatment as outlined below, must begin within 72 hours of the first dose of intrathecal chemotherapy.
- ___8. **Eligibility Screening**
B-ALL and MPAL patients must be enrolled on APEC14B1 and consented to Eligibility studies (Part A) prior to treatment and enrollment on AALL1732. Note that central confirmation of MPAL diagnosis must occur within 7 business days after enrollment for MPAL patients. If not performed within this time frame, patients will be taken off protocol. See [Section 3.1.4](#) for timing details.
APEC14B1 is not a requirement for B-LLy patients but for institutional compliance every patient should be offered participation in APEC14B1. B-LLy patients may directly enroll on AALL1732 and MUST submit eligibility studies as outlined in [Section 13.0](#).
- ___9. **Age at diagnosis**
Patients must be > 365 days and < 25 years of age

___10. White Blood Cell Count (WBC) Criteria

- White Blood Cell Count (WBC) Criteria for patients with B-ALL
 - Age 1-9.99 years: WBC $\geq$ 50,000/ μ L
 - Age 10-24.99 years: Any WBC
 - Age 1-9.99 years: WBC < 50,000/ μ L with:
 - Testicular leukemia
 - CNS leukemia (CNS3)
 - Steroid pretreatment (see [Section 3.3.3](#))
- White Blood Cell Count (WBC) Criteria for patients with MPAL
 - Age 1-24.99 years: any WBC

___11. Diagnosis

- Patient has newly diagnosed B-ALL or MPAL (by WHO2016 criteria) with >25% blasts on a bone marrow (BM) aspirate;
 - OR If a BM aspirate is not obtained or is not diagnostic of acute leukemia, the diagnosis can be established by a pathologic diagnosis of acute leukemia on a BM biopsy;
 - OR A complete blood count (CBC) documenting the presence of at least 1,000/ μ L circulating leukemic cells if a bone marrow aspirate or biopsy cannot be performed;
- OR Patient has newly diagnosed B-LLy Murphy Stages III or IV (See [Appendix VII](#) for staging);
- OR Patient has newly diagnosed B-LLy Murphy Stages I or II with steroid pretreatment (See [Section 3.3.3](#) for steroid pretreatment details).

Note: For B-LLy patients with tissue available for flow cytometry, the criterion for diagnosis should be analogous to B-ALL. For tissue processed by other means (i.e., paraffin blocks), the methodology and criteria for immunophenotypic analysis to establish the diagnosis of B-LLy defined by the submitting institution will be accepted.

The CIRB has determined that assent of children age 14 and older is a necessary condition for proceeding with the research.

EXCLUSION CRITERIA:

- ___1. Patients with Down syndrome are not eligible (patients with Down syndrome and B-ALL are eligible for AALL1731, regardless of NCI risk group).
- ___2. Patients with known Charcot-Marie-Tooth disease.
- ___3. Prior Therapy
With the exception of steroid pretreatment (defined in [Section 3.3.3](#)) or the administration of intrathecal cytarabine, patients must not have received any prior cytotoxic chemotherapy for the current diagnosis of B-ALL, MPAL, or B-LLy or for any cancer diagnosed prior to initiation of protocol therapy on AALL1732.
- ___4. Patients with B-ALL or MPAL who do not have sufficient diagnostic bone marrow submitted for APEC14B1 testing and who do not have a peripheral blood sample submitted containing >1,000/ μ L circulating leukemia cells.
- ___5. Patients with Acute Undifferentiated Leukemia (AUL) are not eligible.
- ___6. For Murphy Stage III/IV B-LLy patients, or Stage I/II patients with steroid pretreatment, the following additional exclusion criteria apply:
 - T-Lymphoblastic Lymphoma.
 - Morphologically unclassifiable lymphoma.
 - Absence of both B-cell and T-cell phenotype markers in a case submitted as lymphoblastic lymphoma.
- ___7. Female patients who are pregnant, since fetal toxicities and teratogenic effects have been noted for several of the study drugs. A pregnancy test is required for female patients of childbearing potential.
- ___8. Lactating women who plan to breastfeed their infants while on study and for 2 months after the last dose of inotuzumab ozogamicin.
- ___9. Sexually active patients of reproductive potential who have not agreed to use an effective contraceptive method for the duration of study participation. For those patients randomized to inotuzumab ozogamicin, there is a minimum of 8 months after the last dose of inotuzumab ozogamicin for females and 5 months after the last dose of inotuzumab ozogamicin for males.

REQUIRED OBSERVATIONS:

Required Observations in Induction – B-ALL

All baseline studies must be performed prior to starting protocol therapy unless otherwise indicated below.

- a. Hx/PE/Wt /Ht/BSA. Note: Height/BSA is only required at the beginning of this course.
- b. CBC/diff/platelets
- c. Creatinine
- d. Total bilirubin, ALT
- e. CSF cell count and cytospin (Obtain only on days with IT administration)
- f. Echocardiogram
- g. Pregnancy test
- h. Performance status
- i. TPMT and NUDT15 genotype (TPMT highly recommended for all subjects; NUDT15 is highly recommended for subjects of Hispanic/Native American or East Asian ancestry, and optional for all other subjects).
- j. **REQUIRED** (done as part of APEC14B1): Local assessment of CD22 expression (see [Appendix XIII](#) for best practice guidelines). A diagnostic BM sample must also be submitted to the COG Biopathology Center for central assessment of CD22 expression for patients with negative or unknown CD22 expression by local assessment.
- k. **REQUIRED:** Submit baseline samples for required eligibility studies done as part of APEC14B1. See APEC14B1 Manual of Procedures for details.
- l. Optional: for patients who consent on APEC14B1, send baseline PB and BM samples for banking. Done as part of APEC14B1, see APEC14B1 Manual of Procedures for details.
- m. **REQUIRED:** Bone marrow evaluation to assess response by morphology (at local institution), and flow MRD (at COG-approved flow laboratory). See [Section 14.1](#) for collection and shipping requirements. This sample should be drawn no more than two days early or late, with a preference for early rather than late to avoid potentially missing a high MRD level.
If Day 29 BM sample for MRD testing is not obtained and shipped to a COG-approved flow lab then the patient will not be eligible to continue on AALL1732 following completion of Consolidation therapy. These samples are essential.
- n. Optional: for patients who consent on APEC14B1, send Day 29 PB and BM samples for banking. Done as part of APEC14B1, see APEC14B1 Manual of Procedures for details.

TOXICITIES AND DOSAGE MODIFICATIONS:

See Section 5.0.

SPECIMEN REQUIREMENTS:

Per APEC14B1 and Sections 13.0 and 14.0. Note: Blood and marrow must be sent to the ALL molecular reference lab for potential confirmatory testing. Bone Marrow – 7ml. Peripheral Blood – 5 ml in shipping media.

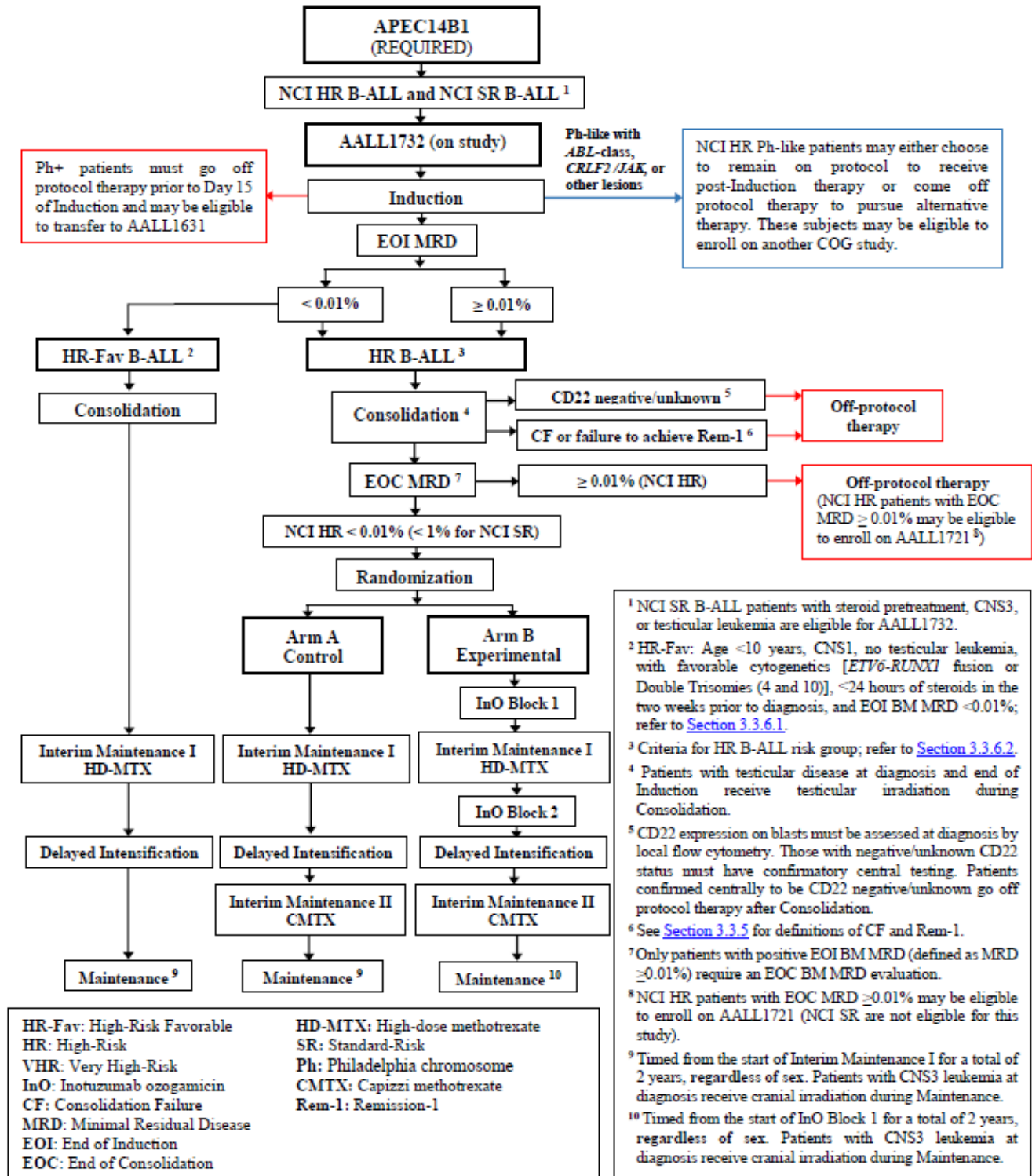
TREATMENT PLAN:



THIS PROTOCOL IS FOR RESEARCH PURPOSES ONLY, SEE PAGE 1 FOR USAGE POLICY

AALL1732

EXPERIMENTAL DESIGN SCHEMA – B-ALL Patients



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