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Blinatumomab (Blincyto)

Patient MRN: 6745328

Patient DOB: 7-30-2017 (7yo)

Patient Sex: M

OUTPATIENT CLINIC NOTE

HPI:

7 year old male with diagnosis of Philadelphia chromosome-positive B-cell precursor acute lymphoblastic leukemia (B-ALL) presents for a follow up visit to review repeat bone marrow biopsy results from 10/4/24, after completing the consolidation phase (see patient's detailed standard treatment plan below).

The bone marrow aspirate revealed >90% blasts, indicated relapsed or refractory B-ALL.

The patient has otherwise been doing well clinically. Parents report that the patient has had mild fatigue and decreased energy, but is overall well appearing with no recent fevers.

Diagnosis: A bone marrow biopsy on 3/29/24 confirmed a diagnosis of B-ALL with 85% lymphoblasts. Cytogenetic analysis indicated Philadelphia chromosome-positive disease.

Completed Treatment Plan

Induction Phase:

Duration: 4 weeks (4/1/24 - 4/29/24)

Agents Used:

• Vincristine: Administered weekly.

• **Dexamethasone:** Administered daily for 28 days.

• L-asparaginase: Administered on alternate days.

• **Daunorubicin:** Given as a single dose during the first week.

• **Imatinib:** Administered daily throughout the induction phase to target the BCR-ABL fusion protein.

Consolidation Phase:

Duration: 8 weeks (5/6/24 - 7/1/24)

Agents Used:

- Methotrexate: High-dose, given weekly.Mercaptopurine: Daily oral administration.
- Vincristine: Administered biweekly.
- Cyclophosphamide: Given during the third week.
- **Doxorubicin:** Administered during the final week of consolidation.
- **Imatinib:** Continued daily administration throughout consolidation to maintain suppression of BCR-ABL.

Initial Proposed Maintenance Phase:

Started: 7/8/24

Agents:

• **Methotrexate:** Weekly doses.

• Mercaptopurine: Daily oral administration.

• Vincristine: Every 4 weeks.

• **Imatinib:** Continued daily administration during maintenance to prevent relapse.

• Intrathecal Methotrexate: Plan to administer every 2-3 months for CNS prophylaxis. First dose scheduled for 10/4/24 at the time of the repeat bone marrow biopsy.

Review of Systems:

General: Negative for fever, pallor. Positive for fatigue

Skin: Negative for rashes

Head, Eyes, Ears, Nose, Throat (HEENT): Negative for headache, vision changes,

nasal congestion, rhinorrhea, sore throat.

Cardiovascular: Negative for chest pain, palpitations

Respiratory: negative for cough, shortness of breath, wheezing. **Gastrointestinal**: Negative for abdominal pain, nausea, vomiting. **Genitourinary**: Negative for dysuria, frequency, urgency, hematuria. **Musculoskeletal**: Negative for joint pain, stiffness, muscle weakness.

Neurological: Negative for seizures, weakness, numbness.

Endocrine: Negative for heat/cold intolerance, excessive thirst or urination, changes in

appetite.

Hematologic: Negative for rashes, bruises, petechiae or purpura

Psychiatric: Negative for depression, anxiety

Vitals:

HR 95 bpm BP 110/70 mmHg

RR: 18 bpm

Temp: 98.7°F (37°C)

Physical Exam

General Appearance: No acute distress, laying in bed comfortably

Skin: Normal, without rashes or bruises

Head: Normocephalic, atraumatic.

Eyes: Pupils equal, round, reactive to light; conjunctivae clear.

Ears: External ears normal; tympanic membranes intact

Nose: Nasal passages clear; no discharge.

Throat: Oral mucosa moist; tonsils non-enlarged, no erythema.

Cardiovascular: Normal rate, regular rhythm; no murmurs, gallops, or rubs.

Respiratory: Clear bilaterally, no wheezing or crackles. No use of accessory muscles,

unlabored breathing.

Gastrointestinal: Abdomen soft, non-tender, no distension; bowel sounds present. No

hepatosplenomegaly.

MSK: No joint pain, normal range of motion. **Neurological:** Alert, oriented. At baseline.

Assessment: 7-year-old male with a diagnosis of philadelphia chromosome positive B-cell precursor acute lymphoblastic leukemia (B-ALL), diagnosed 2 years ago. He was previously treated with a standard chemotherapy regimen and has achieved remission. Recent bone marrow biopsy revealed relapsed or refractory B-ALL given >90% blasts present, despite current maintenance therapy including imatinib.

Plan:

- 1. Initiate Blinatumomab therapy along with re-induction phase and continued imatinib.
- 2. Schedule biweekly visits for monitoring during treatment with Blinatumomab, including routine CBCs and assessments for adverse effects.

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