

FLUDARABINE AND CYTARABINE
FOR RECURRENT OR REFRACTORY LEUKEMIA (AML, ALL, CML in
blast crisis)

Contact Physician: _____ **Pager:** _____

Diagnosis: _____

Cycle: _____ **Day 1 =** _____ **Consent form done**

Weight: _____ **Height:** _____ **BSA:** _____

Adjusted IBW: _____ **Adjusted BSA:** _____

Allergies: _____

<p>Fludarabine 10.5mg/m² IV over 15 minutes followed by 30.5mg/m² CIVI over 24 hours daily on day 1&2 (total 48 hour dose= 71.5mg/m²) Cytarabine 390 mg/m² IV over 15 minutes followed by 2400mg/m²/day CIVI over 24 hours daily for 3 days on day 3,4 &5 (total 72 hour dose= 7590mg/m²)</p>

- 1. Hydration:** Start IV hydration with Sodium chloride 0.9% at 150 mL per hour 4 hours prior to chemotherapy. Upon initiation of chemotherapy, adjust maintenance IV fluids to keep total fluids at 150 mL per hour.
- 2. Prophylactic Medications:** (check the appropriate medications)
 - Allopurinol: 300mg PO daily for _____ days
 - Acyclovir: 400mg PO twice daily
 - TMP/Sulfa: 160/800mg 1 tablet PO twice daily every Sat/Sun
 - Antifungal: Posaconazole 200mg PO three times daily starting Day 1
 - Prednisolone 1% eye drops: one drop in each eye four times daily, days 3 to 7.

3. **Anti-emetics:** Moderate Emetogenic risk potential during cytarabine infusion (check the appropriate medications)
- Ondansetron 16mg PO twice daily on Day 3, 4, 5, and 6 (total 8 doses).
May give ondansetron 16mg IV if unable to tolerate PO.
 - Dexamethasone: 10 mg PO every 24 hours on Day 3, 4, & 5.
 - Lorazepam: 0.5mg - 1 mg PO or IV every 4 hours prn nausea
 - Prochlorperazine 10mg PO every 6 hours as needed nausea

4. **Chemotherapy:**

- **Fludarabine** (10.5mg/m²) _____ mg in Sodium Chloride 0.9% 100mL IV bolus over 15 minutes followed by (30.5mg/m²/day) _____ mg in Sodium Chloride 0.9% 500mL continuous IV infusion over 24 hours day 1 and 2. (total 48 hour dose 71.5mg/m² = _____mg).

Begin cytarabine immediately following fludarabine infusion.

- **Cytarabine** (390 mg/m²) _____ mg in Sodium Chloride 0.9% 250 mL IV bolus over 15 minutes followed by (2400mg/m²/day) _____ mg in Sodium Chloride 0.9% 500mL continuous IV infusion over 24 hours day 3, 4, and 5. (Total 72 hour dose 7590mg/m²)

Pharmacist: If an interruption should occur during fludarabine or cytarabine infusion, may increase infusion rate by a maximum of 30% in order to complete fludarabine infusion in 48 hours and cytarabine infusion in 72 hours.

4. **Nursing instructions**

- Neuro checks and signature sheet every 8 hours during cytarabine infusion
- Pulse oximetry check every 8 hours during first 48 hours of cytarabine
- Continuous pulse oximetry during last 24 hours of cytarabine infusion
- Call MD on call for pulse oximetry reading < 89%
- Vital signs every 2 hours during the last 36 hours of cytarabine infusion

Signed: _____ Pager: _____

Reference: Leukemia & Lymphoma 41(3-4) 2001: 321-331