BC Cancer Protocol Summary for Treatment of Hairy Cell Leukemia with Cladribine

Protocol Code: LYCDA

Tumour Group: Lymphoma

Contact Physician: Dr. Laurie Sehn

ELIGIBILITY:

All patients with Hairy Cell Leukemia

TESTS:

- Baseline (required before first treatment): CBC & diff, platelets, creatinine, bilirubin, ALT
- Baseline (required, but results do not have to be available to proceed with first treatment; results must be checked before proceeding with further treatment): HBsAg, HBsAb, HBcoreAb
- If clinically indicated: HBV viral load, ALT (see protocol <u>SCHBV</u>)

PREMEDICATIONS:

None

SUPPORTIVE MEDICATIONS:

 High risk of hepatitis B reactivation. If HBsAg or HBcoreAb positive, follow hepatitis B prophylaxis as per <u>SCHBV</u>.

TREATMENT:

Drug	Dose	e BC Cancer Administration Guideline	
	0.14 mg/kg/day	IV in 500 mL NS over 2 hours daily for 5 consecutive days	
cladribine	OR		
	0.14 mg/kg/day	SC daily for 5 consecutive days*	

Cladribine is usually given only once. There is no dose reduction for hematologic blood counts for this first cycle. If repeated, it should be given after recovery of blood counts to baseline following the dose reductions below.

*In Canada, cladribine is provided as 1 mg/mL concentration only. As a result, subcutaneous administration requires several syringes to be administered. Therefore, IV route may be preferred.

DOSE MODIFICATIONS:

1. Hematologic:

ANC (x 10 ⁹ /L)*		Platelets (x 10 ⁹ /L)*	Dose
less than 1.2	OR	less than 100	Delay until count recovery

2. **Renal Dysfunction:** For any patient with a serum creatinine above normal and for all patients above the age of 60 years, a creatinine clearance should be measured or calculated using the following formula:

Estimated creatinine clearance (in mL/minute) =

For men: $[1.23 \text{ x } (140\text{-age in y})(\text{weight in kg})] \div \text{serum creatinine in micromol/L}$ For women: $[1.04 \text{ x } (140\text{-age in y})(\text{weight in kg})] \div \text{serum creatinine in micromol/L}$

Creatinine Clearance (mL/min)	Actual Dose and Schedule (Note change in number of days)	
greater than or equal to 70	0.14 mg/kg/day x 5 consecutive days	
30 to less than 70	0.14 mg/kg/day x 3 consecutive days	
less than 30	DO NOT USE	

PRECAUTIONS:

- Neutropenia: fever or other evidence of infection must be assessed promptly and treated aggressively.
- 2. Hepatitis B Reactivation: See SCHBV protocol for more details.
- 3. Severe neurotoxicity: has been reported with overdose, including irreversible neurologic toxicity, Guillain-Barré and Brown-Séquard syndromes.

Call Dr. Laurie Sehn or tumour group delegate at (604) 877-6000 or 1-800-663-3333 with any problems or questions regarding this treatment program.

References:

- 1. Cheson B. Purine analogues. J Clin Oncol 1992;10:352-5.
- 2. Piro LD, Carrera CJ, Carson DA and Beutler E. Lasting remissions in hairy cell leukemia induced by a single infusion of 2-chlorodeoxyadenosine. New Engl J Med 1990;322:1117-21.