

CLADRIBINE (2-chlorodeoxyadenosine)

INDICATION: Hairy cell leukaemia, lymphoplasmacytic lymphoma, myelofibrosis

Prior to a course of treatment

- Check creatinine clearance if serum creatinine is raised or > 60 years old. *See dose modification*
- Check FBC, LFTs
- Blood and platelet transfusions must be irradiated indefinitely - *inform transfusion lab*
- If appropriate discuss possibility of pregnancy with female patients and need for contraception with both male and female patients. Discuss potential for infertility - offer semen cryopreservation to male patients.
- Written consent for course

Intravenous cladribine:

1) Cladribine	0.09mg/kg/day by continuous IV infusion in 0.5L N saline	for 7 days
2) Cladribine	0.12mg/kg/day IV in 0.5L N saline over 2 hours	for 5 days
3) Cladribine	0.14mg/kg IV once a week in 0.5L N saline over 2 hours	for 6 weeks

Subcutaneous cladribine (Litak)

1) Cladribine	0.14mg/kg SC daily	5 days
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A maximum of two courses are given

Prophylaxis for acute emesis None required

Prophylaxis for delayed emesis Metoclopramide for 3-4 days

Other medications

Cotrimoxazole 480mg od until lymphocytes > 1.0

Acyclovir 400mg bd until lymphocytes > 1.0

Allopurinol 300mg od for 7 days

Other anti-infective prophylaxis according to local policy

Dose modification for haematological toxicity and infection

- Pancytopenia with first cycle is due to marrow infiltration – there are no dose modifications for this
- Delay subsequent cycles until neutrophils ≥ 1.0
- Patient must be monitored closely and infection must be treated promptly
- Give blood product support as necessary
- If there is neutropenic sepsis despite use of GCSF consider using 60% dose - *discuss with consultant*

Dose modification for renal impairment

- There is limited information and it is a clinical decision whether to modify treatment.
- If Cr.Cl<30-60ml/min consider using 60% dose e.g reduce course from 5 to 3 days. If Cr.Cl <30ml/min cladribine may be contraindicated - *discuss with consultant*

Dose modification for liver dysfunction

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- Limited information – clinical decision

Cladribine Toxicities

Neutropenic sepsis

Nausea (moderate-severe)

Thrombocytopenia

Amenorrhoea & infertility (offer cryopreservation)

Fever *

Opportunistic infection

Rash

Headache

Local injection site reactions

** Culture-negative cytokine-mediated fever occurs in up to 50% of cases but there is still a significant risk of fatal infection*

Written by Dr MP Macheta, Consultant Haematologist

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