Chlorambucil

Indication

Low grade non-Hodgkin lymphomas and other lymphoproliferative disorders including CLL.

For CD20+ disease, can be used in combination with rituximab (see separate R-Chlorambucil protocol).

ICD-10 codes

Codes with a prefix C82, C88, C91.

Regimen details

Day	Drug	Dose	Route
1-14	Chlorambucil*	10mg OD	PO
or			
1-7	Chlorambucil	10mg/m ² OD	PO

^{*}Chlorambucil may be given at a continuous low dose of 2-4mg OD if concerns about tolerability.

Cycle frequency

Every 28 days

Number of cycles

Maximum of 4-6 cycles

Administration

Chlorambucil is available as 2mg tablets. Tablets should be taken on an empty stomach, at least 1 hour before or 3 hours after a meal.

Pre-medication

Nil

Emetogenicity

This regimen has mild-moderate emetogenic potential (on treatment days).

Additional supportive medication

Allopurinol 300mg (100mg if creatinine clearance <20mL/min) OD for the first cycle if required.

H₂ antagonist or PPI if required.

Antiviral and antifungal prophylaxis as per local policy.

Extravasation

N/A

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Investigations - pre first cycle

Investigation	Validity period (or as per local policy)
FBC	14 days
U+E (including creatinine)	14 days
LFTs	14 days
LDH	14 days
Direct Antiglobulin Test (DAT)	14 days
Glucose	14 days

Other pre-treatment investigations:

Hepatitis B and C and HIV serology

Investigations – pre subsequent cycles

Investigation	Validity period (or as per local policy)
FBC	96 hours
U+E (including creatinine)	7 days
LFTs	7 days
LDH	7 days
Glucose	As clinically indicated

Standard limits for administration to go ahead

If blood results not within range, authorisation to administer **must** be given by prescriber/ consultant.

Investigation	Limit
Neutrophil count	$\geq 1.0 \times 10^9 / L$
Platelet count	$\geq 100 \times 10^9 / L$
Creatinine clearance	≥ 45 mL/min
Bilirubin	≤ 1.5 x ULN
AST/ALT	< 2 ULN

Dose modifications

Haematological toxicity

If neutrophils $< 1.0 \times 10^9$ /L or platelets $< 100 \times 10^9$ /L delay by 1 week or until count recovery. If counts recovered within 2 weeks resume at full dose, otherwise consider dose reduction.

Once tolerance established, the dosage should be modified according to response, e.g. level of haematological suppression.

Renal impairment

No dose reduction usually required. If CrCl <45mL/min discuss with the consultant and monitor closely for myelosuppression.

Hepatic impairment

Chlorambucil should be dose reduced in severe hepatic impairment and the dose further modified based on response and degree of myelosuppression. Discuss with consultant if AST/ALT > 2 x ULN.

Adverse effects - for full details consult product literature/ reference texts

• Serious side effects

Myelosuppression

Stevens-Johnson syndrome

Hypersensitivity and allergic reactions

Infertility

Interstitial pulmonary fibrosis

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Frequently occurring side effects

Nausea or vomiting
Anorexia, weight loss
Constipation, diarrhoea
Stomatitis/mucositis

Other side effects

Rash

Significant drug interactions – for full details consult product literature/ reference texts

Coumarin-derived anticoagulants such as warfarin: patients established on warfarin should either be changed to low molecular weight heparin or have weekly monitoring of INR. Patients who are initiated on anti-coagulation should remain on low molecular weight heparin until completion of the course of chemotherapy.

Additional comments

Haematological toxicity may be cumulative. Patients should receive irradiated blood products.

References

- Summary of Product Characteristics Chlorambucil (Medac). Accessed 8 August 2018 via www.medicines.org.uk
- Oscier D, Dearden C, Eren E et al., British Committee for Standards in Haematology.Br J Haematol. 2012 Dec;159(5):541-64

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Date: July 2018

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