# CHLORAMBUCIL +/- PREDNISOLONE

Chronic Lymphocytic Leukaemia (CLL) Low grade indolent lymphoma Waldenstroms macroglobulinaemia (WM)

**Please note:** This oral agent is being used for the above indications without curative intent, and has historically been used for many years without any proven optimal dosing or scheduling. Consequently, the schedules given below represent those routinely used in the Network but are not exclusive. Doses are routinely modified according to individual response, but doses greater than those listed below should be confirmed with a Consultant.

## Drugs/Dosage:

Schedule 1:

**Chlorambucil** 10mg po once daily Days 1 to 14

+/-

**Prednisolone** 40mg po once daily Days 1 to 14

If patient presents with cytopenia due to heavy marrow infiltration or autoimmune cytopenia, give prednisolone alone for first cycle.

For elderly patients or those with diabetes mellitus, chlorambucil alone may be considered.

For elderly/frail patients, a shorter duration of treatment may be considered (e.g. 7 - 10 days per cycle).

10 days of treatment per 28 day cycle may also be used as standard, according to local practice.

Given as 4 weekly cycle minimum – a longer cycle of up to 8 weeks may be used in elderly/frail patients. Continue until remission plus 2 cycles (usually 6 - 8 cycles)

### Or:

Schedule 2:

**Chlorambucil** 10mg/m<sup>2</sup> po once daily Days 1 to 7 of 28 day cycle

If patient presents with cytopenia due to heavy marrow infiltration or autoimmune cytopenia, treat with prednisolone first before proceeding with chlorambucil.

Given as 4 weekly cycle minimum – a longer cycle of up to 8 weeks may be used in elderly/frail patients. Continue until remission plus 2 cycles (usually 6 - 8 cycles)

### Or:

Schedule 3:

**Chlorambucil** 10 - 14mg po once daily continuously for up to 6 weeks

until CR or toxicity<sup>1</sup>

If patient presents with cytopenia due to heavy marrow infiltration or autoimmune cytopenia, treat with prednisolone first before proceeding with chlorambucil.

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Prepared by Oncology Pharmacist: S Taylor	Checked by Network Pharmacist: Jacky Turner

#### Surrey, West Sussex and Hampshire Cancer Network NHS

Administration: Chlorambucil available as 2mg tablets, which need to be stored in the fridge.

The daily dose may be divided to reduce incidence of nausea. Prednisolone tablets to be taken in the morning with or after food.

Other drugs: Allopurinol 300mg po daily – review after 4 weeks

The use of an H<sub>2</sub> antagonist or proton pump inhibitor is recommended if

prednisolone is being used

Main Toxicities: myelosuppression; mucositis; peripheral neuropathy;

steroid side effects; ovarian failure; infertility

Anti- emetics: Mildly emetogenic

Regular FBC every 4 weeks Investigations: LFTs every 4 weeks

U&Es every 4 weeks LDH every 4 weeks

Blood glucose if using prednisolone, during the first cycle, then as indicated

### **Dose Modifications**

Haematological Toxicity:

Treatment should be deferred if neutrophil count is  $< 1.0 \times 10^9$ /L and/or if platelet

count is < 100 x 10<sup>9</sup>/L, unless secondary to bone marrow infiltration or

autoimmune.

Reduce number of days of treatment per cycle if significant thrombocytopenia or

neutropenia occurs.

Renal Impairment: Patients with impaired renal function may be more prone to myelosuppression with

chlorambucil.

Hepatic Impairment: Dose reduction of chlorambucil is only recommended with gross hepatic

dysfunction, with dose adjustment according to response.

Patient information: CancerBACUP leaflet for Chlorambucil

References: CLL4 trial; MRC Adult Leukaemia Working Party, 2001

<sup>1</sup>Jaksic, B et al; Nouv Rev Fr Haematol 1988; 30: 437 – 442, (referenced in Medical Management of Haematological Malignant Disease (1998) Ed EJ

Freireich, HM Kantarjian)

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