Indication	First line treatment of CD20+ Chronic lymphocytic Leukaemia (CLL) in patients who are unsuitable for full dose fludarabine or bendamustine based therapy.						
Treatment	Disease modification						
Intent	Discuse mounication						
Frequency and number of cycles	Repeat every 28 days. Maximum of 6 cycles						
Monitoring	Virology status checked prior to cycle 1.						
Parameters	Monitor FBC, U&Es and LFTs Day 1 of each cycle plus Day 8 & Day 15 of cycle 1						
pre-treatment	Monitor LDH at baseline then Day 1 of every other cycle						
	• Haematological toxicity: If neutrophils < 1.0 x 10 ⁹ /L and / or platelets < 50 x 10 ⁹ /L, delay until counts have recovered, then continue with full dose treatment.						
	• Risk of tumour lysis syndrome: Patients with a high tumour burden and/or a high circulating lymphocyte count (> 25 x 10 ⁹ /L) and/or renal impairment (CrCl <70 mL/min) are considered at risk of TLS and should receive prophylaxis. Prophylaxis should consist of adequate hydration and administration of uricostatics (e.g. <i>allopurinol</i>),starting 12-24hours prior to start of infusion						
	Antihypertensives: Withholding of antihypertensive treatments should be considered for 12 hours prior to and throughout each infusion and for the first hour after administration.						
	Renal impairment:						
	 Obinutuzumab: No dose adjustment is required if CrCl >/= 30ml/min. There is no data for CrCl < 30ml/min. 						
	 Chlorambucil: No dose adjustment required. If CrCl <50mL/min monitor closely for myelosuppression. 						
	Hepatic impairment:						
	 Obinutuzumab: No data available in impaired hepatic function. No specific dose recommendations can be made clinical decision. 						
	 Chlorambucil: Patients with hepatic impairment should be closely monitored for signs and symptoms of toxicity. Dose reduction should be considered in patients with severe hepatic impairment. 						
	Patients with a history of cardiac disease should be monitored closely.						
	Progressive multifocal leukoencephalopathy (PML) has been reported in patients treated with obinutuzumab. If suspected treatment should be withheld during the investigation of patients and patients.						
	 investigation of potential PML and permanently discontinued in case of confirmed PML. Patients should not receive live vaccines during treatment, and until B cell counts have normalised. 						
	Obinutuzumab infusion rate notes:						
	Notes CYCLE 1: If the first bag is completed without modifications of the infusion rate						
	or interruptions, the second bag may be administered on the same day (no dose delay						
	necessary, no repetition of premedication), provided that appropriate time, conditions						
	and medical supervision are available throughout the infusion.						
	DAY ONE cycle 1: Administer at 25 mg/hr over 4 hours. Do not increase the infusion						
	rate.						
	 In the event of an infusion related reaction (IRR), the administration rate should be modified as follows: 						
	Grade 1-2 IRR (mild-moderate): Reduce infusion rate and treat symptoms. Upon						
	resolution of symptoms, continue infusion and, if participant does not experience any						
	IRR symptoms, infusion rate may be increased back up to 25 mg/hr after 1 hour, but not increased further.						
	not increased further.						

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- O Grade 3 IRR (severe): Temporarily interrupt infusion and treat symptoms. Upon resolution of symptoms, restart infusion at no more than half the previous rate (the rate being used at the time that the IRR occurred) and, if participant does not experience any IRR symptoms, infusion rate may be increased back up to 25 mg/hr after 1 hour, but not increased further. If a grade 3 IRR occurs at re-challenge, stop infusion immediately and discontinue therapy permanently.
- Grade 4 IRR (life threatening): Stop infusion and discontinue therapy.
- <u>DAY 2 cycle 1:</u> Administer at 50 mg/hr. In the absence of any infusion related reactions or hypersensitivity, the rate of infusion may be escalated in increments of 50 mg per hour every 30 minutes to a maximum rate of 400 mg per hour.
- o In the event of an infusion related reaction (IRR), the administration rate should be modified as follows:
- Grade 1-2 IRR (mild-moderate): Reduce infusion rate and treat symptoms. Upon resolution of symptoms, continue infusion and, if participant does not experience any IRR symptoms, infusion rate escalation may resume at the increments and intervals as appropriate for the treatment dose.
- o <u>Grade 3 IRR (severe)</u>: Temporarily interrupt infusion and treat symptoms. Upon resolution of symptoms, restart infusion at no more than half the previous rate (the rate being used at the time that the IRR occurred) and, if participant does not experience any IRR symptoms, infusion rate escalation may resume at the increments and intervals as appropriate for the treatment dose. If a grade 3 IRR occurs at rechallenge, stop infusion immediately and discontinue therapy permanently.
- Grade 4 IRR (life threatening): Stop infusion and discontinue therapy.
- DAY 8 and 15 cycle 1 and DAY 1 cycle 2-6: Administer at 100 mg/hr. In the absence of
 any infusion related reactions or hypersensitivity, the rate of infusion may be
 escalated in increments of 100 mg per hour every 30 minutes to a maximum rate of
 400 mg per hour.
- o In the event of an infusion related reaction (IRR), the administration rate should be modified as follows:
- <u>Grade 1-2 IRR (mild-moderate)</u>: Reduce infusion rate and treat symptoms. Upon resolution of symptoms, continue infusion and, if participant does not experience any IRR symptoms, infusion rate escalation may resume at the increments and intervals as appropriate for the treatment dose.
- Grade 3 IRR (severe): Temporarily interrupt infusion and treat symptoms. Upon resolution of symptoms, restart infusion at no more than half the previous rate (the rate being used at the time that the IRR occurred) and, if participant does not experience any IRR symptoms, infusion rate escalation may resume at the increments and intervals as appropriate for the treatment dose. If a grade 3 IRR occurs at rechallenge, stop infusion immediately and discontinue therapy permanently.
- o Grade 4 IRR (life threatening): Stop infusion and discontinue therapy.

References

KMCC proforma HAEM-CLL-026 v1 ARIA regimen CLL-026 SPC accessed online 03.11.2021 BNF accessed on line 03.11.21

NB For funding information, refer to CDF and NICE Drugs Funding List

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Cycle 1

Day	Drug	Dose	Route	Infusion Duration	Administration	
Day 1	Methylprednisolone	80mg	IV	Over 15 min	In 100ml Sodium Chloride 0.9%. Infusion must be completed at least 1 hour prior to the obinutuzumab infusion.	
	Paracetamol	1g	PO	stat	Given at least 30 minutes	
	Chlorphenamine	10mg	IV	Slow bolus over 1min	before the obinutuzumab infusion.	
				to starting ob /L to reduce tl	inutuzumab infusion to patients ne risk of TLS.	
	OBINUTUZUMAB	100mg	IV infusion	See Notes above	In 100ml Sodium Chloride 0.9%. Flush line pre and post infusion with Sodium Chloride 0.9%	
Day 2	Methylprednisolone	80mg	IV	Over 15 min	In 100ml Sodium Chloride 0.9%. Infusion must be completed at least 1 hour prior to the obinutuzumab infusion.	
	Paracetamol	1g	PO	stat	Given at least 30 minutes	
	Chlorphenamine	10mg	IV	Slow bolus over 1min	before the obinutuzumab infusion.	
					rting obinutuzumab infusion to patients educe the risk of TLS.	
	OBINUTUZUMAB	900mg	IV infusion	See notes above	In 250ml Sodium Chloride 0.9% Flush line pre and post infusion with Sodium Chloride 0.9%	
Day 8	Methylprednisolone (Only for patients with >Grade 3 IRR with the previous infusion OR lymphocyte count>25x10 ⁹ /L prior to next treatment)	80mg	IV	Over 15 min	In 100ml Sodium Chloride 0.9%. Infusion must be completed at least 1 hour prior to the obinutuzumab infusion.	
	Paracetamol	1g	PO	stat		
	Chlorphenamine (Only for patients with an IRR (Grade 1 or more) with the previous infusion)	10mg	IV	Slow bolus over 1min	Given at least 30 minutes before the obinutuzumab infusion.	
				to starting ob /L to reduce tl	inutuzumab infusion to patients	
	OBINUTUZUMAB	1000mg	IV infusion	See notes above	In 250ml Sodium Chloride 0.9% Flush line pre and post infusion with Sodium Chloride 0.9%	

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Cycle 1 continued

Day	Drug	Dose	Route	Infusion Duration	Administration
Day 15	Methylprednisolone (Only for patients with >Grade 3 IRR with the previous infusion OR lymphocyte count>25x10 ⁹ /L prior to next treatment)	80mg	IV	Over 15 min	In 100ml Sodium Chloride 0.9%. Infusion must be completed at least 1 hour prior to the obinutuzumab infusion.
	Paracetamol	1g	PO	stat	
	Chlorphenamine (Only for patients with an IRR (Grade 1 or more) with the previous infusion)	10mg	IV	Slow bolus over 1min	Given at least 30 minutes before the obinutuzumab infusion.
					inutuzumab infusion to patients
	with lymphocyte counts > 25×10^9 /L to reduce the risk of TLS.				
	OBINUTUZUMAB	1000mg	IV infusion	See notes above	In 250ml Sodium Chloride 0.9% Flush line pre and post infusion with Sodium Chloride 0.9%

TTO cycle 1 only

TTO	Drug	Dose	Route	Directions
Day 1	Allopurinol	300mg	РО	OD, starting 24hrs before first cycle and reviewed after 4 weeks
	Aciclovir	400mg	РО	BD continuously (plus 3 more months after completion of last obinutuzumab treatment dose)
	Co-trimoxazole	480mg	РО	TWICE daily on Mondays, Wednesdays and Fridays (plus 3 more months after completion of last obinutuzumab treatment dose)
	Fluconazole	100mg	PO	OD (plus 3 more months after completion of last obinutuzumab treatment dose)
	CHLORAMBUCIL	0.5mg/kg/day	РО	Once daily on Day 1 and 15 as directed. Available as 2mg tablets

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Cycle 2-6

Day	Drug	Dose	Route	Infusion	Administration	
				Duration		
Day 1	Methylprednisolone (Only for patients with >Grade 3 IRR with the previous infusion OR lymphocyte count>25x109/L prior to next treatment)	80mg	IV	Over 15 min	In 100ml Sodium Chloride 0.9%. Infusion must be completed at least 1 hour prior to the obinutuzumab infusion.	
	Paracetamol	1g	PO	stat	Given at least 30 minutes before	
	Chlorphenamine	10mg	IV	Slow bolus over 1min	the obinutuzumab infusion.	
	Ensure adequate hydration is given 12-24 hours prior to starting obing hymphocyte counts > 25×10^9 /L to reduce the				· ·	
	OBINUTUZUMAB	1000mg	IV infusion	See Notes above	In 250ml Sodium Chloride 0.9%. Flush line pre and post infusion with Sodium Chloride 0.9%	

TTO cycle 2-6

TTO	Drug	Dose	Route	Directions
Day 1				BD continuously (plus 3 more months
	Aciclovir	400mg	PO	after completion of last
				obinutuzumab treatment dose)
				TWICE daily on Mondays,
				Wednesdays and Fridays (plus 3 more
	Co-trimoxazole	480mg	PO	months after completion of last
				obinutuzumab treatment dose)
				OD (plus 3 more months after
	Fluconazole	100mg	PO	completion of last obinutuzumab
				treatment dose)
				Once daily on Day 1 and 15 as
	CHLORAMBUCIL	0.5mg/kg/day	PO	directed.
				Available as 2mg tablets.

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