

Carfilzomib, Dexamethasone and Lenalidomide (cycles 13-18) for Myeloma

MRN:	Ward/Unit:
Name:	
DOB: Consultant:	
Address:	
NHS No:	

Hb	Na ⁺	Alt	Weight
WBC	K ⁺	Alk P	BSA
Plt	Urea	ALT	Date
Neuts	Cr	Bil	Allergies:
	GFR	TSH	
	Ca	T4	
		Cortisol	Nature of allergy:
Recorded by	Date		

Funding status: Bluteteq required

Emetogenic potential: weakly to moderately emetogenic

Extravasation classification: non-irritant

Cycle number:

To be given every 28 days until disease progression or unacceptable toxicity or until Cycle 18. If a patient continues to respond after completing 18 cycles they can continue on treatment with lenalidomide plus dexamethasone.

DAY NO. DATE	DRUG or ELECTROLYTE	CALCULATION	DOSE	I.V. FLUID	VOLUME (ml)	ROUTE/ FLOW RATE	SPECIAL DIRECTIONS	DRUG	TIME	Pharm
1	Dexamethasone		40mg*	PO STAT			30 mins before carfilzomib			
	CARFILZOMIB	56mg/m ²		5% Glucose	100ml	Over 30 mins				Max 123mg
	LENALIDOMIDE	Max 123mgmg	PO OD for 21 DAYS							PAFD
15	Dexamethasone	40mg*	PO STAT	5% Glucose	100ml	Over 30 mins	30 mins before carfilzomib			Max 123mg
	CARFILZOMIB	56mg/m ²								
		Max 123mg								

Prescriber sig:	Date:	Chemo nurse sig:	Date:	Pharmacist clinical sig:	Date:
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Rota code: HROTA 427	Issue date: September 2024	Written by: Simran Bhadda	Authorised by: Consultant: Tracey Charlton	Page: 2 of 3
		Clinical Nurse Specialist:	Reference: Kyprolis SMPC and NCIP Regimen	

University Hospitals
Birmingham

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Proceed [rules for Day 1 and 15: Bloods valid for 7 days

	Lenalidomide		Carfilzomib
Neutrophils	Falls to $<1.0 \times 10^9/L$	Hold Lenalidomide therapy and resume at same dose when ANC >1.0	Falls to $<0.5 \times 10^9/L$ >0.5
	For each subsequent drop to $<1.0 \times 10^9/L$	Hold Lenalidomide therapy then resume at 1 dose level reduction when ANC >1.0	For each subsequent drop to $<0.5 \times 10^9/L$ Hold dose and resume when ANC >0.5 and consider 1 dose level reduction
Platelets ($10^9/L$)	Falls to <30	Hold Lenalidomide therapy until platelet >30 and resume at 1 dose level reduction	Febrile neutropenia, ANC $<0.5 \times 10^9/L$ and temperature $>38.5^\circ C$ Hold dose and resume at same dose when ANC >0.5 and fever resolves.
	For each subsequent drop to <30	Hold Lenalidomide until ≥ 30 then resume at 1 dose level reduction.	<10 or evidence of bleeding Hold dose until >10 and/or bleeding controlled then restart at same dose level
		Do not dose below 5mg QD	For each subsequent drop <10 or evidence of bleeding Hold until platelet >10 and/or bleeding controlled, consider restarting at 1 dose level reduction

Renal	Creatinine Clearance (ml/min)	Dose modification	If serum creatinine $\geq 2 \times$ baseline
	>50	Full dose	Or
	30-50	Reduce dose to 10mg once a day	Creatinine clearance is $<15\text{ml}/\text{min}$
	<30 not requiring dialysis	15mg every other day	Or
	<30 requiring dialysis	Reduce dose to 5mg once a day	Creatinine clearance decreases to $\leq 50\%$ of baseline
Hepatic	Lenalidomide has not been formally studied in patients with hepatic impairment and there are no specific dose recommendations		Or
Non-Haematological toxicity	All other grade 3 or 4 non-Haematological toxicities (e.g. Dyspnoea, cardiac events) - stop Carfilzomib until resolved or returned to baseline.		There is a need for dialysis
<p>Consider restarting at 1 dose level reduction</p> <p>Hold Carfilzomib and continue to monitor renal function. Resume when renal function has recovered to within 25% of baseline; consider reducing at 1 dose level reduction</p>			

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Dose Level reductions for Carfilzomib and Lenalidomide

	Carfilzomib	Lenalidomide
Starting Dose	56mg/m ²	25mg
Dose level -1	45mg/m ²	20mg
Dose level -2	36mg/m ²	15mg
Dose level -3	27mg/m ²	10mg
Dose level -4	Discontinue	5mg
Dose level -5		2.5mg

Medications to be prescribed on PICS**Anti-emetics****Metoclopramide 10mg TDS PRN**

Dexamethasone 40mg* to be taken on day 8 and 22.

Adcal D3 chewable tablets- 1 tablet BD

Apixaban 2.5mg BD

Aciclovir 400mg BD

Co-trimoxazole 480mg BD MWF

Lansoprazole 30mg OD

Supportive medication**Other Information**

*Option to reduce dexamethasone to 20mg if required.

The Pregnancy Prevention Programme should be complied with, and a Prescription Authorisation Form (PAF) must be completed for every supply of Lenalidomide.

For patients on dialysis, the dose should be administered after the dialysis procedure.

Adequate hydration is required in patients at high risk of tumour lysis syndrome or renal toxicity. All patients should be monitored for evidence of volume overload and fluid requirements should be tailored to individual patient needs. The total volume of fluids may be adjusted as clinically indicated in patients with baseline cardiac failure or who are at risk of cardiac failure. The risk of cardiac failure is increased in elderly patients (≥ 75 years). The risk of cardiac failure is also increased in Asian patients. Advise patients to report an increase in breathlessness when switching to an increased dose.

Evaluate dyspnoea to exclude cardiopulmonary conditions including cardiac failure and pulmonary syndromes. Stop Carfilzomib for grade 3 and 4 dyspnoea until resolved or returned to baseline and consider whether to restart Carfilzomib based on a benefit/risk assessment.

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