

Regimen Reference Order – MYEL – carfilzomib + dexamethasone

ARIA: MYEL – [carfilzomib + dexamethasone]

Planned Course: Until disease progression or unacceptable toxicity (1 cycle = 28 days)

Indication for Use: Multiple Myeloma

CVAD: At Provider's Discretion

Proceed with treatment if:

Days 1 and 15 only

ANC equal to or greater than $0.5 \times 10^9/L$ AND Platelets equal to or greater than $30 \times 10^9/L$

❖ Contact Hematologist if parameters not met

SEQUENCE OF MEDICATION ADMINISTRATION

Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Instruct patient to start vigorous oral pre-hydration of 6 to 8 cups of liquid per day starting at least 48 hours before Cycle 1 only		
allopurinol*	300 mg	Orally once daily for 10 days to begin 3 days prior to Cycle 1 and at provider's discretion for subsequent cycles * Only patients at risk of tumor lysis syndrome will be prescribed allopurinol

Treatment Regimen – MYEL – carfilzomib + dexamethasone

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
Cycle 1		
dexamethasone	20 mg	Orally once daily on Days 1, 2, 8, 9, 15, 16, 22 and 23 (self-administered at home) On days of carfilzomib administration, dexamethasone should be taken between <u>30 minutes to 4 hours</u> prior to carfilzomib
normal saline	500 mL	IV over 1 hour prior to carfilzomib (Pre hydration)
carfilzomib	20 mg/m ²	IV in D5W 50 mL over 30 minutes on Days 1 and 2
	56 mg/m ²	IV in D5W 50 mL over 30 minutes on Days 8, 9, 15 and 16
normal saline	500 mL	Infused over the 1 hour observation period (Post hydration)

Cycle 2 onwards		
dexamethasone	20 mg	Orally once daily on Days 1, 2, 8, 9, 15, 16, 22 and 23 (self-administered at home) On days of carfilzomib administration, dexamethasone should be taken between <u>30 minutes to 4 hours</u> prior to carfilzomib
carfilzomib	56 mg/m ²	IV in D5W 50 mL over 30 minutes on Days 1, 2, 8, 9, 15 and 16
Maximum carfilzomib dose is: 44 mg (Cycle 1, Days 1 and 2); 120 mg (Cycle 1, Day 8 and onwards) All doses will be automatically rounded that fall within the DSG Approved Dose Bands. See LYMP DSG – Dose Banding document for more information		

Flush after each medication:

- 50 mL over 6 minutes (500 mL/hr)

In the event of an infusion-related hypersensitivity reaction, refer to the 'Hypersensitivity Reaction Standing Order'

REQUIRED MONITORING

Cycle 1 only

- Observe patient 1 hour post carfilzomib administration for Cycle 1 only (during Post hydration)
- Patient should be assessed for signs and symptoms of fluid overload prior to each carfilzomib dose

All cycles

Days 1 and 15

- CBC, reticulocyte count, biochemistry as per physician order
- Physician should assess patient for signs and symptoms of cardiotoxicity prior to each cycle

Recommended Support Medications		
Drug	Dose	CCMB Administration Guideline
valACYclovir	500 mg	Orally once daily

DISCHARGE INSTRUCTIONS

- Reinforce oral hydration of 6 to 8 cups of liquid per day
- Remind patient to take dexamethasone at home
- Patients should be instructed to inform their cancer team of shortness of breath or signs and symptoms of fluid overload
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

ADDITIONAL INFORMATION

- carfilzomib has been associated with cardiotoxicity