

IP CARFILZOMIB (MAINTENANCE)

Types: ONCOLOGY TREATMENT

Synonyms: CARFILZOMIB, CARFLIZOMIB, MM, KYPROLIS, MEYLOMA, MULTIPLE, CYP, MAINTENANCE

Cycle 1	Repeat 1 time	Cycle length: 28 days
Day 1		Perform every 1 day x1
Provider Communication		
ONC PROVIDER COMMUNICATION 5		
Interval: Once	Occurrences: --	
Comments:	Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.	
Labs		
<input checked="" type="checkbox"/> CBC WITH PLATELET AND DIFFERENTIAL		
Interval: Once	Occurrences: --	
<input checked="" type="checkbox"/> COMPREHENSIVE METABOLIC PANEL		
Interval: Once	Occurrences: --	
<input checked="" type="checkbox"/> MAGNESIUM LEVEL		
Interval: Once	Occurrences: --	
<input type="checkbox"/> LDH		
Interval: Once	Occurrences: --	
<input type="checkbox"/> URIC ACID LEVEL		
Interval: Once	Occurrences: --	
Nursing Orders		
TREATMENT CONDITIONS 7		
Interval: Once	Occurrences: --	
Comments:	HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000.	
Line Flush		
sodium chloride 0.9 % flush 20 mL		
Dose: 20 mL	Route: intravenous	PRN
Start: S		
Nursing Orders		
sodium chloride 0.9 % infusion 250 mL		
Dose: 250 mL	Route: intravenous	once @ 30 mL/hr for 1 dose
Start: S		
Instructions:	To keep vein open.	
Pre-Hydration		
sodium chloride 0.9 % bolus 250 mL		
Dose: 250 mL	Route: intravenous	once over 60 Minutes for 1 dose
Start: S		
Pre-Medications		
dexamethasone (DECADRON) tablet 20 mg		
Dose: 20 mg	Route: oral	once for 1 dose
		Offset: 0 Hours
Instructions:	Give 30 min to 4 hours prior to Carfilzomib.	
Provider Communication		

ONC PROVIDER COMMUNICATION 5

Interval: Once

Occurrences: --

Comments:

Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.

Chemotherapy

carfilzomib (KYPROLIS) 27 mg/m2 in dextrose**5% 50 mL chemo IVPB**

Dose: 27 mg/m2

Route: intravenous

once over 10 Minutes for 1 dose

Offset: 1 Hours

Instructions:

Flush line with 20 cc 0.9% sodium chloride before and after each injection. Vitals (BP, pulse, respirations, temp) must be taken shortly before each infusion and every 15 minutes during infusion. Patients to be observed for 1 hour post infusion during all of cycle 1 and day 1 of cycle 2. Encourage oral fluid intake greater than 1500 mL per day.

Maximum BSA = 2.2 m2.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
CARFILZOMIB 60 MG INTRAVENOUS SOLUTION	Medications	27 mg/m2	Main Ingredient	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes

Post-Hydration

sodium chloride 0.9 % bolus 250 mL

Dose: 250 mL

Route: intravenous

once over 60 Minutes for 1 dose

Hematology & Oncology Hypersensitivity Reaction Standing Order

ONC NURSING COMMUNICATION 82

Interval: Until discontinued

Occurrences: --

Comments:

Grade 1 - MILD Symptoms (cutaneous and subcutaneous symptoms only – itching, flushing, periorbital edema, rash, or runny nose)

1. Stop the infusion.
2. Place the patient on continuous monitoring.
3. Obtain vital signs.
4. Administer Normal Saline at 50 mL per hour using a new bag and new intravenous tubing.
5. If greater than or equal to 30 minutes since the last dose of Diphenhydramine, administer Diphenhydramine 25 mg intravenous once.
6. If less than 30 minutes since the last dose of Diphenhydramine, administer Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
7. Notify the treating physician.
8. If no improvement after 15 minutes, advance level of care to Grade 2 (Moderate) or Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

ONC NURSING COMMUNICATION 83

Interval: Until discontinued

Occurrences: --

Comments:

Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or

gastrointestinal symptoms – shortness of breath, wheezing, nausea, vomiting, dizziness, diaphoresis, throat or chest tightness, abdominal or back pain)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O₂ saturation of greater than or equal to 92%.
6. Administer Normal Saline at 150 mL per hour using a new bag and new intravenous tubing.
7. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous), Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
8. If no improvement after 15 minutes, advance level of care to Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

ONC NURSING COMMUNICATION 4

Interval: Until discontinued

Occurrences: --

Comments:

Grade 3 – SEVERE Symptoms (hypoxia, hypotension, or neurologic compromise – cyanosis or O₂ saturation less than 92%, hypotension with systolic blood pressure less than 90 mmHg, confusion, collapse, loss of consciousness, or incontinence)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. If heart rate is less than 50 or greater than 120, or blood pressure is less than 90/50 mmHg, place patient in reclined or flattened position.
6. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O₂ saturation of greater than or equal to 92%.
7. Administer Normal Saline at 1000 mL intravenous bolus using a new bag and new intravenous tubing.
8. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous) and Famotidine 20 mg intravenous once.
9. Administer Epinephrine (1:1000) 0.3 mg subcutaneous.
10. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

diphenhydramine (BENADRYL) injection 25 mg

Dose: 25 mg Route: intravenous PRN
Start: S

fexofenadine (ALLEGRA) tablet 180 mg

Dose: 180 mg Route: oral PRN
Start: S

famotidine (PEPCID) 20 mg/2 mL injection 20 mg

Dose: 20 mg Route: intravenous PRN
Start: S

hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg

Dose: 100 mg Route: intravenous PRN

dexamethasone (DECADRON) injection 4 mg

Dose: 4 mg Route: intravenous PRN
Start: S

epINEPHrine (ADRENALIN) 1 mg/10 mL ADULT injection syringe 0.3 mg

Dose: 0.3 mg Route: subcutaneous PRN
Start: S

Discharge Nursing Orders

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL Route: intravenous PRN

HEParin, porcine (PF) injection 500 Units

Dose: 500 Units Route: intra-catheter once PRN
Start: S

Instructions:

Concentration: 100 units/mL. Heparin flush for Implanted Vascular Access Device maintenance.

Day 2

Perform every 1 day x1

Nursing Orders

sodium chloride 0.9 % infusion 250 mL

Dose: 250 mL Route: intravenous once @ 30 mL/hr for 1 dose
Start: S

Instructions:

To keep vein open.

Pre-Hydration

sodium chloride 0.9 % bolus 250 mL

Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose
Start: S

Pre-Medications

dexamethasone (DECADRON) tablet 20 mg

Dose: 20 mg Route: oral once for 1 dose
Offset: 0 Hours

Instructions:

Give 30 min to 4 hours prior to Carfilzomib.

Provider Communication

ONC PROVIDER COMMUNICATION 5

Interval: Once

Occurrences: --

Comments:

Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.

Chemotherapy

carfilzomib (KYPROLIS) 27 mg/m2 in dextrose 5% 50 mL chemo IVPB

Dose: 27 mg/m2 Route: intravenous once over 10 Minutes for 1 dose
Offset: 1 Hours

Instructions:

Flush line with 20 cc 0.9% sodium chloride before and after each injection. Vitals (BP, pulse, respirations, temp) must be taken shortly before each infusion and every 15 minutes during infusion. Patients to be observed for 1 hour post infusion during all of cycle 1 and day 1 of cycle 2. Encourage oral fluid intake greater than 1500 mL per day.

Maximum BSA = 2.2 m2.

Ingredients:	Name	Type	Dose	Selected	Adds	Vol.
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CARFILZOMIB 60 MG INTRAVENOUS SOLUTION	Medications	27 mg/m2	Main Ingredient	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes

Post-Hydration

sodium chloride 0.9 % bolus 250 mL
 Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose

Day 8

Perform every 1 day x1

Labs

COMPREHENSIVE METABOLIC PANEL

Interval: Once Occurrences: --

CBC WITH PLATELET AND DIFFERENTIAL

Interval: Once Occurrences: --

MAGNESIUM LEVEL

Interval: Once Occurrences: --

LDH

Interval: Once Occurrences: --

URIC ACID LEVEL

Interval: Once Occurrences: --

PHOSPHORUS LEVEL

Interval: Once Occurrences: --

Nursing Orders

TREATMENT CONDITIONS 7

Interval: Once Occurrences: --
 Comments: HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000.

Nursing Orders

sodium chloride 0.9 % infusion 250 mL

Dose: 250 mL Route: intravenous once @ 30 mL/hr for 1 dose
 Start: S
 Instructions:
 To keep vein open.

Pre-Hydration

sodium chloride 0.9 % bolus 250 mL

Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose
 Start: S

Pre-Medications

dexamethasone (DECADRON) tablet 20 mg

Dose: 20 mg Route: oral once for 1 dose
 Offset: 0 Hours

Instructions:
 Give 30 min to 4 hours prior to Carfilzomib.

Provider Communication

ONC PROVIDER COMMUNICATION 5

Interval: Once Occurrences: --
 Comments: Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.

Chemotherapy

carfilzomib (KYPROLIS) 27 mg/m2 in dextrose

5% 50 mL chemo IVPB

Dose: 27 mg/m2 Route: intravenous once over 10 Minutes for 1 dose
Offset: 1 Hours

Instructions:

Flush line with 20 cc 0.9% sodium chloride before and after each injection. Vitals (BP, pulse, respirations, temp) must be taken shortly before each infusion and every 15 minutes during infusion. Patients to be observed for 1 hour post infusion during all of cycle 1 and day 1 of cycle 2. Encourage oral fluid intake greater than 1500 mL per day.

Maximum BSA = 2.2 m2.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	CARFILZOMIB 60 MG INTRAVENOUS SOLUTION	Medications	27 mg/m2	Main Ingredient	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes

Post-Hydration

sodium chloride 0.9 % bolus 250 mL

Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose

Day 9

Perform every 1 day x1

Nursing Orders

sodium chloride 0.9 % infusion 250 mL

Dose: 250 mL Route: intravenous once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

Pre-Hydration

sodium chloride 0.9 % bolus 250 mL

Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose

Start: S

Pre-Medications

dexamethasone (DECADRON) tablet 20 mg

Dose: 20 mg Route: oral once for 1 dose
Offset: 0 Hours

Instructions:

Give 30 min to 4 hours prior to Carfilzomib.

Provider Communication

ONC PROVIDER COMMUNICATION 5

Interval: Once

Occurrences: --

Comments:

Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.

Chemotherapy

carfilzomib (KYPROLIS) 27 mg/m2 in dextrose

5% 50 mL chemo IVPB

Dose: 27 mg/m2 Route: intravenous once over 10 Minutes for 1 dose
Offset: 1 Hours

Instructions:

Flush line with 20 cc 0.9% sodium chloride before and after each injection. Vitals (BP,

pulse, respirations, temp) must be taken shortly before each infusion and every 15 minutes during infusion. Patients to be observed for 1 hour post infusion during all of cycle 1 and day 1 of cycle 2. Encourage oral fluid intake greater than 1500 mL per day.

Maximum BSA = 2.2 m2.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	CARFILZOMIB 60 MG INTRAVENOUS SOLUTION	Medications	27 mg/m2	Main Ingredient	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes

Post-Hydration

sodium chloride 0.9 % bolus 250 mL
 Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose

Day 15

Perform every 1 day x1

Labs

COMPREHENSIVE METABOLIC PANEL

Interval: Once Occurrences: --

CBC WITH PLATELET AND DIFFERENTIAL

Interval: Once Occurrences: --

MAGNESIUM LEVEL

Interval: Once Occurrences: --

LDH

Interval: Once Occurrences: --

URIC ACID LEVEL

Interval: Once Occurrences: --

PHOSPHORUS LEVEL

Interval: Once Occurrences: --

Nursing Orders

TREATMENT CONDITIONS 7

Interval: Once Occurrences: --

Comments: HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000.

Nursing Orders

sodium chloride 0.9 % infusion 250 mL

Dose: 250 mL Route: intravenous once @ 30 mL/hr for 1 dose

Start: S

Instructions:
To keep vein open.

Pre-Hydration

sodium chloride 0.9 % bolus 250 mL

Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose

Start: S

Pre-Medications

dexamethasone (DECADRON) tablet 20 mg

Dose: 20 mg Route: oral once for 1 dose

Offset: 0 Hours

Instructions:
Give 30 min to 4 hours prior to Carfilzomib.

Provider Communication

ONC PROVIDER COMMUNICATION 5

Interval: Once Occurrences: --
Comments: Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.

Chemotherapy

carfilzomib (KYPROLIS) 27 mg/m2 in dextrose 5% 50 mL chemo IVPB

Dose: 27 mg/m2 Route: intravenous once over 10 Minutes for 1 dose
Offset: 1 Hours

Instructions:
Flush line with 20 cc 0.9% sodium chloride before and after each injection. Vitals (BP, pulse, respirations, temp) must be taken shortly before each infusion and every 15 minutes during infusion. Patients to be observed for 1 hour post infusion during all of cycle 1 and day 1 of cycle 2. Encourage oral fluid intake greater than 1500 mL per day.

Maximum BSA = 2.2 m2.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	CARFILZOMIB 60 MG INTRAVENOUS SOLUTION	Medications	27 mg/m2	Main Ingredient	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes

Post-Hydration

sodium chloride 0.9 % bolus 250 mL

Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose

Day 16

Perform every 1 day x1

Nursing Orders

sodium chloride 0.9 % infusion 250 mL

Dose: 250 mL Route: intravenous once @ 30 mL/hr for 1 dose

Start: S
Instructions:
To keep vein open.

Pre-Hydration

sodium chloride 0.9 % bolus 250 mL

Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose

Start: S

Pre-Medications

dexamethasone (DECADRON) tablet 20 mg

Dose: 20 mg Route: oral once for 1 dose
Offset: 0 Hours

Instructions:
Give 30 min to 4 hours prior to Carfilzomib.

Provider Communication

ONC PROVIDER COMMUNICATION 5

Interval: Once Occurrences: --
Comments: Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.

Chemotherapy

carfilzomib (KYPROLIS) 27 mg/m2 in dextrose 5% 50 mL chemo IVPB

Dose: 27 mg/m2 Route: intravenous once over 10 Minutes for 1 dose
Offset: 1 Hours

Instructions:

Flush line with 20 cc 0.9% sodium chloride before and after each injection. Vitals (BP, pulse, respirations, temp) must be taken shortly before each infusion and every 15 minutes during infusion. Patients to be observed for 1 hour post infusion during all of cycle 1 and day 1 of cycle 2. Encourage oral fluid intake greater than 1500 mL per day.

Maximum BSA = 2.2 m2.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	CARFILZOMIB 60 MG INTRAVENOUS SOLUTION	Medications	27 mg/m2	Main Ingredient	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes

Post-Hydration

sodium chloride 0.9 % bolus 250 mL

Dose: 250 mL Route: intravenous once over 60 Minutes for 1 dose

Discharge Nursing Orders

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL Route: intravenous PRN

HEParin, porcine (PF) injection 500 Units

Dose: 500 Units Route: intra-catheter once PRN

Start: S

Instructions:

Concentration: 100 units/mL. Heparin flush for Implanted Vascular Access Device maintenance.