Protocol Index

IP CARFILZOMIB (INITIAL CYCLE)

Types: ONCOLOGY TREATMENT
Synonyms: CARFILZOMIB, CARFLIZOMIB, MM, KYPROLIS, MEYLOMA, MULTIPLE, CYP

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

☑ **CBC WITH PLATELET AND DIFFERENTIAL**
Interval: Once Occurrences: --

☑ **COMPREHENSIVE METABOLIC PANEL**
Interval: Once Occurrences: --

☑ **MAGNESIUM LEVEL**
Interval: Once Occurrences: --

☐ **LDH**
Interval: Once Occurrences: --

☐ **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) 20 mg/m2 in dextrose 5% 50 mL chemo IVPB
Dose: 20 mg/m2 Route: intravenous once over 10 Minutes for 1 dose
Offset: 1 Hours

Instructions:
Flush line with 20 mL 0.9% sodium chloride before and after each infusion. 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	20 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.

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

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) 20 mg/m2 in dextrose 5% 50 mL chemo IVPB
Dose: 20 mg/m2 | Route: intravenous | once over 10 Minutes for 1 dose
Offset: 1 Hours
Instructions:
Flush line with 20 mL 0.9% sodium chloride before and after each infusion. 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	20 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: 30 Minutes
Instructions:
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: 30 Minutes

Instructions:

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: 30 Minutes

Instructions:

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: 30 Minutes
Instructions:
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