

IP PAD

Types: ONCOLOGY TREATMENT

Synonyms: BORTEZOMIB, VELCADE, MM, BORTEZOMIB, MYELOMA, MULTIPLE, BORT, PAD, DOXORUBICIN, DOXO, ADRIA, ADRIAMYCIN, MM, VELCADE

Cycle 1	Repeat 1 time	Cycle length: 21 days
Day 1	Perform every 1 day x1	
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: --	
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%.	
Provider Communication		
ONC PROVIDER COMMUNICATION		
Interval: Once	Occurrences: --	
Comments:	Verify Ejection Fraction prior to Cycle 1. Ejection Fraction: ***% on *** (date).	
	If patient has not had a recent MUGA or ECHO, order one via order entry. A baseline cardiac evaluation with a MUGA scan or an ECHO is recommended, especially in patients with risk factors for increased cardiac toxicity. Repeated MUGA or ECHO determinations of LVEF should be performed, particularly with higher, cumulative anthracycline doses.	
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		
ONC NURSING COMMUNICATION 51		
Interval: Once	Occurrences: --	
Comments:	HOLD Bortezomib and notify provider if Hgb is LESS than or equal to *** g/dL.	
Vitals		

ONC NURSING COMMUNICATION 50

Interval: Once

Occurrences: --

Comments:

1) Check vital signs (BP, temperature, pulse, and respirations) prior to and 30 minutes after Bortezomib administration.

2) If systolic BP, 30 minutes after Bortezomib infusion, drops more than 30 mmHg, or if systolic BP is less than 90, please contact MD.

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-Medications☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Ingredients:**Name****Type****Dose****Selected****Adds Vol.**ONDANSETRON
HCL (PF) 4 MG/2
ML INJECTION
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE
4 MG/ML
INJECTION
SOLUTION

Medications

12 mg

No

No

SODIUM
CHLORIDE 0.9 %
INTRAVENOUS
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN
WATER (D5W)
INTRAVENOUS
SOLUTION

Base

No

Yes

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

Ingredients:**Name****Type****Dose****Selected****Adds Vol.**APREPITANT 7.2
MG/ML
INTRAVENOUS
EMULSION

Medications

130 mg

Main

Yes

DEXTROSE 5 % IN
WATER (D5W) IV
SOLP (EXCEL:

Base

130 mL

Yes

Yes

NON-PVC)					
SODIUM	Base	130 mL	No	Yes	
CHLORIDE 0.9 % IV					
SOLP					
(EXCEL;NON-PVC)					

Pre-Medications

dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg	Route: oral	once for 1 dose
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Pre-Medications

☐ **LORazepam (ATIVAN) tablet 1 mg**

Dose: 1 mg	Route: oral	once for 1 dose
Start: S		

Chemotherapy

DOXOrubicin (ADRIAmycin) 9 mg/m2 in sodium chloride 0.9% 500 mL chemo IVPB

Dose: 9 mg/m2	Route: intravenous	once over 24 Hours for 1 dose
		Offset: 30 Minutes

Instructions:

Protect from light. VESICANT

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	DOXORUBICIN 50 MG/25 ML INTRAVENOUS SOLUTION	Medications	9 mg/m2	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	500 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	500 mL	No	Yes

bortezomib (VelCADE) 1.3 mg/m2 in sodium chloride 0.9% chemo injection

Dose: 1.3 mg/m2	Route: subcutaneous	once for 1 dose
		Offset: 30 Minutes

Instructions:

DRUG IS AN IRRITANT. Administer drug slowly to prevent burning upon administration. 72 hours between doses is recommended.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	BORTEZOMIB 3.5 MG SOLUTION FOR INJECTION	Medications	1.3 mg/m2	Main Ingredient	No
	SODIUM CHLORIDE 0.9 % INJECTION SOLUTION	Base		Always	Yes

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.

Days 2,3**Perform every 1 day x2****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-Medications☒ **ondansetron (ZOFran) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: -- Route: intravenous once over 15 Minutes for 1 dose
Start: S

Ingredients:**Name****Type****Dose****Selected****Adds Vol.**

ONDANSETRON
HCL (PF) 4 MG/2
ML INJECTION
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE
4 MG/ML
INJECTION
SOLUTION

Medications

12 mg

No

No

SODIUM
CHLORIDE 0.9 %
INTRAVENOUS

Base

50 mL

Always

Yes

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-Medications

☒ ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

ONDANSETRON
HCL (PF) 4 MG/2
ML INJECTION
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE
4 MG/ML
INJECTION
SOLUTION

Medications

12 mg

No

No

SODIUM
CHLORIDE 0.9 %
INTRAVENOUS
SOLUTION
DEXTROSE 5 % IN
WATER (D5W)
INTRAVENOUS
SOLUTION

Base

50 mL

Always

Yes

Base

No

Yes

☐ ondansetron (ZOFTRAN) tablet 16 mg

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

☐ dexamethasone (DECADRON) tablet 12 mg

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

☐ aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

APREPITANT 7.2
MG/ML
INTRAVENOUS
EMULSION

Medications

130 mg

Main

Yes

Ingredient

DEXTROSE 5 % IN
WATER (D5W) IV
SOLP (EXCEL;
NON-PVC)

Base

130 mL

Yes

Yes

SODIUM
CHLORIDE 0.9 % IV
SOLP
(EXCEL;NON-PVC)

Base

130 mL

No

Yes

Pre-Medications

dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg

Route: oral

once for 1 dose

Chemotherapy

DOXOrubicin (ADRIAmycin) 9 mg/m2 in sodium chloride 0.9% 500 mL chemo IVPB

Dose: 9 mg/m2 Route: intravenous once over 24 Hours for 1 dose
Offset: 30 Minutes

Instructions:
Protect from light. VESICANT

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	DOXORUBICIN 50 MG/25 ML INTRAVENOUS SOLUTION	Medications	9 mg/m2	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	500 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	500 mL	No	Yes

bortezomib (VelCADE) 1.3 mg/m2 in sodium chloride 0.9% chemo injection

Dose: 1.3 mg/m2 Route: subcutaneous once for 1 dose
Offset: 30 Minutes

Instructions:
DRUG IS AN IRRITANT. Administer drug slowly to prevent burning upon administration. 72 hours between doses is recommended.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	BORTEZOMIB 3.5 MG SOLUTION FOR INJECTION	Medications	1.3 mg/m2	Main Ingredient	No
	SODIUM CHLORIDE 0.9 % INJECTION SOLUTION	Base		Always	Yes

Day 8

Perform every 1 day x1

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

ONC NURSING COMMUNICATION 51

Interval: Once Occurrences: --
Comments: HOLD Bortezomib and notify provider if Hgb is LESS than or equal to *** g/dL.

Vitals

ONC NURSING COMMUNICATION 50

Interval: Once Occurrences: --
Comments: 1) Check vital signs (BP, temperature, pulse, and respirations) prior to

and 30 minutes after Bortezomib administration.

2) If systolic BP, 30 minutes after Bortezomib infusion, drops more than 30 mmHg, or if systolic BP is less than 90, please contact MD.

Chemotherapy

bortezomib (VelCADE) 1.3 mg/m2 in sodium chloride 0.9 % chemo injection

Dose: 1.3 mg/m2 Route: subcutaneous once for 1 dose
Offset: 30 Minutes

Instructions:
DRUG IS AN IRRITANT. Administer drug slowly to prevent burning upon administration.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	BORTEZOMIB 3.5 MG SOLUTION FOR INJECTION	Medications	1.3 mg/m2	Main Ingredient	No
	SODIUM CHLORIDE 0.9 % INJECTION SOLUTION	Base		Always	Yes

Day 11

Perform every 1 day x1

Vitals

ONC NURSING COMMUNICATION 50

Interval: Once Occurrences: --
Comments: 1) Check vital signs (BP, temperature, pulse, and respirations) prior to and 30 minutes after Bortezomib administration.

2) If systolic BP, 30 minutes after Bortezomib infusion, drops more than 30 mmHg, or if systolic BP is less than 90, please contact MD.

Chemotherapy

bortezomib (VelCADE) 1.3 mg/m2 in sodium chloride 0.9 % chemo injection

Dose: 1.3 mg/m2 Route: subcutaneous once for 1 dose
Offset: 30 Minutes

Instructions:
DRUG IS AN IRRITANT. Administer drug slowly to prevent burning upon administration.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	BORTEZOMIB 3.5 MG SOLUTION FOR INJECTION	Medications	1.3 mg/m2	Main Ingredient	No
	SODIUM CHLORIDE 0.9 % INJECTION SOLUTION	Base		Always	Yes