

IP VD-PACE

Types: ONCOLOGY TREATMENT

Synonyms: MM, MULTI, MYEL, CISPL, ETOPO, CYCLO, DEXA, DOXOR

Cycle 1		Repeat 1 time	Cycle length: 28 days
Day 1		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: --	
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.	
Provider Communication			
ONC PROVIDER COMMUNICATION 9			
Interval: Once		Occurrences: --	
Comments:		Please go to Meds & Orders to order appropriate antibiotics, anti-virals, anti-fungals.	
Nursing Orders			
TREATMENT CONDITIONS 7			
Interval: Once		Occurrences: --	
Comments:		HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000.	

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.

Hydration

sodium chloride 0.9 % infusion

Dose: 100 mL/hr

Route: intravenous

continuous

Start: S

Pre-Medications

ondansetron (ZOFTRAN) 16 mg, dexamethasone

☒ (DECADRON) 40 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

Medications

16 mg

Yes

No

HCL (PF) 4 MG/2

ML INJECTION

SOLUTION

DEXAMETHASONE Medications

40 mg

Yes

No

4 MG/ML

INJECTION

SOLUTION

SODIUM

Base

50 mL

Always

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

DEXTROSE 5 % IN Base

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

☐ ondansetron (ZOFTRAN) tablet 16 mg

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

End: S 11:30 AM

☐ dexamethasone (DECADRON) tablet 12 mg

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

☐ palonosetron (ALOXI) injection 0.25 mg

Dose: 250 mcg

Route: intravenous

once for 1 dose

Start: S

End: S 3:00 PM

☒ **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

Medications

130 mg

Main

Yes

INTRAVENOUS EMULSION

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

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

No

SODIUM CHLORIDE 0.9 % INJECTION SOLUTION

Base

Always

Yes

Chemotherapy

CISplatin (PLATINOL) 10 mg/m2, cyclophosphamide (CYTOXAN) 400 mg/m2, etoposide (TOPOSAR) 40 mg/m2 in sodium chloride (NON-PVC) 0.9 % 1,000 mL chemo IVPB

Dose: --

Route: intravenous

once over 22 Hours for 1 dose

Offset: 30 Minutes

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

CISPLATIN 1 MG/ML INTRAVENOUS SOLUTION

Medications

10 mg/m2

Yes

Yes

CYCLOPHOSPHAMIDE 1 GRAM INTRAVENOUS SOLUTION

Medications

400 mg/m2

Yes

Yes

ETOPOSIDE 20 MG/ML INTRAVENOUS SOLUTION

Medications

40 mg/m2

Yes

Yes

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

Base

1,000 mL

Yes

Yes

Chemotherapy

DOXOrubicin (ADRIAmycin) 10 mg/m2 in

sodium chloride 0.9 % 1,000 mL chemo IVPB

Dose: 10 mg/m2

Route: intravenous

once over 22 Hours for 1 dose

Offset: 30 Minutes

Instructions:

Protect from light. DRUG IS A VESICANT.
Y-connect to Cisplatin / Cyclophosphamide /
Etoposide bag.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
DOXORUBICIN 2 MG/ML INTRAVENOUS SOLUTION	Medications	10 mg/m2	Main Ingredient	Yes
SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	1,000 mL	Yes	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base		No	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.

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
 Comments:

Occurrences: --

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 (ZOFTRAN) 16 mg, dexamethasone

- ☒ **(DECADRON) 40 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

40 mg

Yes

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 End: S 11:30 AM

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

Dose: 12 mg Route: oral once for 1 dose
Start: S

- ☐ **palonosetron (ALOXI) injection 0.25 mg**

Dose: 250 mcg Route: intravenous once for 1 dose
Start: S End: S 3:00 PM

- ☐ **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
Ingredient

Yes

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
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Chemotherapy

**CISplatin (PLATINOL) 10 mg/m2,
cyclophosphamide (CYTOXAN) 400 mg/m2,
etoposide (TOPOSAR) 40 mg/m2 in sodium
chloride (NON-PVC) 0.9 % 1,000 mL chemo
IVPB**

Dose: --

Route: intravenous

once over 22 Hours for 1 dose

Offset: 30 Minutes

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

CISPLATIN 1
MG/ML

Medications

10 mg/m2

Yes

Yes

INTRAVENOUS
SOLUTION

CYCLOPHOSPHAM
IDE 1 GRAM

Medications

400
mg/m2

Yes

Yes

INTRAVENOUS
SOLUTION

ETOPOSIDE 20
MG/ML

Medications

40 mg/m2

Yes

Yes

INTRAVENOUS
SOLUTION

SODIUM
CHLORIDE 0.9 % IV
SOLP

Base

1,000 mL

Yes

Yes

(EXCEL;NON-PVC)

Day 4

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.

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, dexamethasone

☒ (DECADRON) 40 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

Medications

16 mg

Yes

No

SOLUTION

DEXAMETHASONE
4 MG/ML

Medications

40 mg

Yes

No

INJECTION
SOLUTION

	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base	50 mL	Always	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base		No	Yes
☐ ondansetron (ZOFRAN) tablet 16 mg					
Dose: 16 mg		Route: oral	once for 1 dose		
Start: S		End: S 11:30 AM			
☐ dexamethasone (DECADRON) tablet 12 mg					
Dose: 12 mg		Route: oral	once for 1 dose		
Start: S					
☐ palonosetron (ALOXI) injection 0.25 mg					
Dose: 250 mcg		Route: intravenous	once for 1 dose		
Start: S		End: S 3:00 PM			
☒ 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 Ingredient Yes
		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

Chemotherapy

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

Chemotherapy

CISplatin (PLATINOL) 10 mg/m2, cyclophosphamide (CYTOXAN) 400 mg/m2, etoposide (TOPOSAR) 40 mg/m2 in sodium chloride (NON-PVC) 0.9 % 1,000 mL chemo IVPB					
Dose: --		Route: intravenous	once over 22 Hours for 1 dose		

			Offset: 30 Minutes			
		Ingredients:	Name	Type	Dose	Selected
			CISPLATIN 1	Medications	10 mg/m2	Yes
			MG/ML			Yes
			INTRAVENOUS			
			SOLUTION			
			CYCLOPHOSPHAM	Medications	400	Yes
			IDE 1 GRAM		mg/m2	Yes
			INTRAVENOUS			
			SOLUTION			
			ETOPOSIDE 20	Medications	40 mg/m2	Yes
			MG/ML			Yes
			INTRAVENOUS			
			SOLUTION			
			SODIUM	Base	1,000 mL	Yes
			CHLORIDE 0.9 % IV			Yes
			SOLP			
			(EXCEL;NON-PVC)			