OP BENDAMUSTINE / BORTEZOMIB / PREDNISONE

Cycle length: 1 day

Types: ONCOLOGY TREATMENT

Synonyms: BORTEZOMIB, MM, VELCADE, BORE, MYELOMA, MULTIPLE, BENDEKA, BENDA, PREDN, PRED,

Repeat 1 time

DELT, BENDAMUSTINE, PREDNISONE

Take-Home Medications

Dov. 1	ilcations riepeat i		Cycle length. I day	Danfanna accame di alacce d
Day 1	-Home Medications Prior to 1	Freatment		Perform every 1 day x1
Take	acyclovir (ZOVIRAX) 8			
	Dose: 800 mg Dispense: 42 tablet Start: S Instructions: For infection preventi	Route: oral Refills: 4 End: S+21	2 times daily	
Taka				
Таке	-Home Medications Prior to Time predniSONE (DELTAS) Dose: 100 mg Dispense: 10 tablet Start: S Instructions: On day 1, 2, 4, 8, 11 meals or with food or	SONE) 50 MG tablet Route: oral Refills: 4 of all cycles. Take after		
Cycles 1 to 4	Repeat 4	times	Cycle length: 21 days	
Day 1			•	Perform every 1 day x1
Appo	intment Requests	ENT DECLIESE		
	INFUSION APPOINTM			
Labor	Interval:	Occurrences:		
Labs				
	☑ COMPREHENSIVE ME	ETABOLIC PANEL		
	Interval:	Occurrences:		
	Interval:	Occurrences:		
	Interval:	Occurrences:		
		Occurrences		
	✓ LDH			
	Interval:	Occurrences:		
	✓ URIC ACID LEVEL			
	Interval:	Occurrences:		
	☑ PHOSPHORUS LEVEI	_		
	Interval:	Occurrences:		
Outp	atient Electrolyte Replaceme TREATMENT CONDIT Interval: Comments:	nt Protocol IONS 39 Occurrences: Potassium (Normal ran o Protocol applie MD/NP o Protocol applie o Serum potassii PO and contact MD/NF	s for SCr less than 1.5. Costs only to same day lab valum less than 3.0mEq/L, g	alue. ive 40mEq KCL IV or

- o Serum potassium 3.3 to 3.4mEq/L, give 20mEq KCL IV or PO
- o Serum potassium 3.5 mEq/L or greater, do not give potassium

replacement

o If patient meets criteria, order SmartSet called "Outpatient

Electrolyte Replacement"

o Sign electrolyte replacement order as Per protocol: cosign

required

TREATMENT CONDITIONS 40

Interval: -- Occurrences: --

Comments: Magnesium (Normal range 1.6 to 2.6mEq/L)

o Protocol applies for SCr less than 1.5. Otherwise, contact

MD/NP

o Protocol applies only to same day lab value.

o Serum Magnesium less than 1.0mEq/L, give 2 gram magnesium

sulfate IV and contact MD/NP

o Serum Magnesium 1.0 to 1.2mEq/L, give 2 gram magnesium

sulfate IV

o Serum Magnesium 1.3 to 1.5mEq/L, give 1 gram magnesium

sulfate IV

o Serum Magnesium 1.6 mEq/L or greater, do not give

magnesium replacement

o If patient meets criteria, order SmartSet called "Outpatient

Electrolyte Replacement"

o Sign electrolyte replacement order as Per protocol: cosign

required

Nursing Orders

ONC NURSING COMMUNICATION 59

Interval: -- Occurrences: --

Comments: Verify that patient took PREDNISONE orally prior to chemotherapy.

Otherwise, please contact physician to order Dexamethasone IV.

Nursing Orders

TREATMENT CONDITIONS 7

Interval: -- Occurrences: --

Comments: HOLD and notify provider if ANC LESS than 1000; Platelets LESS than

100,000.

Nursing Orders

ONC NURSING COMMUNICATION 51

Interval: -- Occurrences: --

Comments: HOLD Bortezomib and notify provider if Hgb is LESS than or equal to ***

g/dL.

Vitals

ONC NURSING COMMUNICATION 50

Interval: -- 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

Nursina Orders

sodium chloride 0.9 % infusion 250 mL Dose: 250 mL once @ 30 mL/hr for 1 dose Route: intravenous Start: S Instructions: To keep vein open. **Pre-Medications** ondansetron (ZOFRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB Route: intravenous Dose: -once over 15 Minutes for 1 dose Start: S End: S 11:30 AM Ingredients: Name Dose Selected Adds Vol. Type ONDANSETRON Medications 16 mg Yes No HCL (PF) 4 MG/2 ML INJECTION SOLUTION DEXAMETHASONE Medications 12 mg No 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 dexamethasone (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB Dose: --Route: intravenous once over 15 Minutes for 1 dose Start: S End: S 11:30 AM Instructions: Give ONLY if patient had NOT taken their scheduled dose of ORAL dexamethasone on day of chemotherapy treatment. Ingredients: Type Selected Adds Vol. Dose ONDANSETRON Medications 16 mg No No HCL (PF) 4 MG/2 ML INJECTION SOLUTION DEXAMETHASONE Medications 12 mg Yes No 4 MG/ML **INJECTION** SOLUTION SODIUM 50 mL Yes Base Always CHLORIDE 0.9 % **INTRAVENOUS** SOLUTION DEXTROSE 5 % IN Base No Yes WATER (D5W) **INTRAVENOUS** SOLUTION ☐ 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 Start: S	Route: intravenous End: S 3:00 PM	once for 1 do	se		
			aprepitant (CINVANTI) (NON-PVC) 5% 130 mL Dose: 130 mg	130 mg in dextrose IVPB Route: intravenous	once over 30	Minutos fo	r 1 doso	
			Start: S	End: S		williules to	i i uose	
Ingredi			Ingredients:	Name APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION	Type Medications	Dose 130 mg	Selected Main Ingredient	Adds Vol. 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
	Chem	othe	erapy	,				
			bendamustine (BENDE sodium chloride 0.9 %					
				Route: intravenous	once over 10 Offset: 30 Mir		r 1 dose	
			Instructions: VESICANT	D	0-111	Adda Wal		
	Ingredients:		Ingredients:	Name BENDAMUSTINE 25 MG/ML INTRAVENOUS SOLUTION	Type Medications	Dose 60 mg/m2		Adds Vol. Yes
				SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base	50 mL	Yes	Yes
	Chemotherapy							
			bortezomib (VelCADE) chloride 0.9 % chemo i Dose: 1.3 mg/m2 Instructions: DRUG IS AN IRRITAN slowly to prevent burni	njection Route: subcutaneous IT. Administer drug ing upon administration.	once for 1 do: Offset: 30 Mir			
			72 hours between dos Ingredients:	Name BORTEZOMIB 3.5 MG SOLUTION FOR INJECTION	Type Medications	Dose 1.3 mg/m2	Main Ingredient	
				SODIUM CHLORIDE 0.9 % INJECTION SOLUTION	Base		Always	Yes
	Hematology & Oncology Hypersensitivity Reaction Standing Order							
			ONC NURSING COMMI Interval: Comments:	Occurrences: Grade 1 - MILD Sympto				
	only – itching, flushing, periorbital edema, rash, or runny nose) 1. Stop the infusion.						5C)	

- 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 4

Interval: --

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 83

Interval: --

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 ma Dose: 25 mg **PRN** Route: intravenous Start: S fexofenadine (ALLEGRA) tablet 180 mg Dose: 180 mg Route: oral **PRN** Start: S famotidine (PEPCID) 20 mg/2 mL injection 20 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 PRN Dose: 4 ma Route: intravenous Start: S epINEPHrine (ADRENALIN) 1 mg/10 mL ADULT injection syringe 0.3 mg Dose: 0.3 mg **PRN** Route: subcutaneous Start: S Discharge Nursing Orders **ONC NURSING COMMUNICATION 76** Interval: --Occurrences: --Comments: Discontinue IV. Discharge Nursing Orders Dose: 20 mL **PRN** Route: intravenous ☑ 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 **Appointment Requests INFUSION APPOINTMENT REQUEST** Interval: --Occurrences: --Labs ☐ COMPREHENSIVE METABOLIC PANEL Interval: --Occurrences: --**☑ CBC WITH PLATELET AND DIFFERENTIAL** Interval: --Occurrences: --**⋈** MAGNESIUM LEVEL Interval: --Occurrences: -- □ LDH Interval: --Occurrences: --

✓ URIC ACID LEVEL

Interval: -- Occurrences: --

✓ PHOSPHORUS LEVEL

Interval: -- Occurrences: --

Outpatient Electrolyte Replacement Protocol

TREATMENT CONDITIONS 39

Interval: -- Occurrences: --

Comments: Potassium (Normal range 3.5 to 5.0mEq/L)

o Protocol applies for SCr less than 1.5. Otherwise, contact

MD/NP

o Protocol applies only to same day lab value.

o Serum potassium less than 3.0mEq/L, give 40mEq KCL IV or

PO and contact MD/NP

o Serum potassium 3.0 to 3.2mEq/L, give 40mEq KCL IV or PO Serum potassium 3.3 to 3.4mEq/L, give 20mEq KCL IV or PO Serum potassium 3.5 mEq/L or greater, do not give potassium

replacement

o If patient meets criteria, order SmartSet called "Outpatient

Electrolyte Replacement"

o Sign electrolyte replacement order as Per protocol: cosign

required

TREATMENT CONDITIONS 40

Interval: -- Occurrences: --

Comments: Magnesium (Normal range 1.6 to 2.6mEq/L)

o Protocol applies for SCr less than 1.5. Otherwise, contact

MD/NP

o Protocol applies only to same day lab value.

o Serum Magnesium less than 1.0mEq/L, give 2 gram magnesium

sulfate IV and contact MD/NP

Serum Magnesium 1.0 to 1.2mEq/L, give 2 gram magnesium

sulfate IV

o Serum Magnesium 1.3 to 1.5mEq/L, give 1 gram magnesium

sulfate IV

Serum Magnesium 1.6 mEq/L or greater, do not give

magnesium replacement

o If patient meets criteria, order SmartSet called "Outpatient

Electrolyte Replacement"

o Sign electrolyte replacement order as Per protocol: cosign

required

Nursing Orders

ONC NURSING COMMUNICATION 59

Interval: -- Occurrences: --

Comments: Verify that patient took PREDNISONE orally prior to chemotherapy.

Otherwise, please contact physician to order Dexamethasone IV.

Nursing Orders

TREATMENT CONDITIONS 7

Interval: -- 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 once @ 30 mL/hr for 1 dose Route: intravenous Start: S Instructions: To keep vein open. **Pre-Medications** ondansetron (ZOFRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB Route: intravenous Dose: -once over 15 Minutes for 1 dose Start: S End: S 11:30 AM Ingredients: Name Dose Selected Adds Vol. Type ONDANSETRON Medications 16 mg Yes No HCL (PF) 4 MG/2 ML INJECTION SOLUTION DEXAMETHASONE Medications 12 mg No 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 dexamethasone (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB Dose: --Route: intravenous once over 15 Minutes for 1 dose Start: S End: S 11:30 AM Instructions: Give ONLY if patient had NOT taken their scheduled dose of ORAL dexamethasone on day of chemotherapy treatment. Ingredients: Type Selected Adds Vol. Dose ONDANSETRON Medications 16 mg No No HCL (PF) 4 MG/2 ML INJECTION SOLUTION DEXAMETHASONE Medications 12 mg Yes No 4 MG/ML **INJECTION** SOLUTION SODIUM 50 mL Yes Base Always CHLORIDE 0.9 % **INTRAVENOUS** SOLUTION DEXTROSE 5 % IN Base No Yes WATER (D5W) **INTRAVENOUS** SOLUTION ☐ 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 Start: S					once for 1 dose			
			aprepitant (CINVANTI) (NON-PVC) 5% 130 mL		in dextrose						
			Dose: 130 mg Start: S		ntravenous	once over 30 Minutes for 1 dose					
			Ingredients:	Nan APF MG, INT	REPITANT 7.2	Type Medications	Dose 130 mg		Adds Vol. Yes		
				DE) WA SOL	CTROSE 5 % IN TER (D5W) IV P (EXCEL; N-PVC)	Base	130 mL	Yes	Yes		
				SOI CHI SOI	DIUM [*] LORIDE 0.9 % IV	Base	130 mL	No	Yes		
	Chem	nothe	erapy	·	,						
			bendamustine (BENDE sodium chloride 0.9 % Dose: 60 mg/m2	50 mL d	chemo IVPB	once over 10 Offset: 30 Mir		r 1 dose			
			Instructions: VESICANT	Man		Toma	D	Colorato d	Adda Val		
			Ingredients:	25 N INT	IDAMUSTINE IG/ML RAVENOUS LUTION	Type Medications	Dose 60 mg/m2		Adds Vol. Yes		
				SOI CHI INT	DIUM LORIDE 0.9 % RAVENOUS LUTION	Base	50 mL	Yes	Yes		
	Disch	arge	Nursing Orders								
		_	ONC NURSING COMM								
			Interval: Comments:	Occurre							
	Disch	arge	Nursing Orders								
		V	sodium chloride 0.9 %	flush 20) mL						
			Dose: 20 mL	Route: i	ntravenous	PRN					
		V	☑ HEParin, porcine (PF) injection 500 Units								
			Dose: 500 Units Start: S Instructions: Concentration: 100 un Implanted Vascular Ad	its/mL. I	Heparin flush for	once PRN					
			maintenance.								
C	ays 4,8	laster :	ant Deguests				ı	Perform even	ery 4 days x2		
	Appo	intme	ent Requests INFUSION APPOINTME Interval:	ENT REC							
	Labs			2 300110							

□ COMPREHENSIVE METABOLIC PANEL

Interval: -- Occurrences: --

CBC WITH PLATELET AND DIFFERENTIAL

Interval: -- Occurrences: --

MAGNESIUM LEVEL

Interval: -- Occurrences: --

✓ LDH

Interval: -- Occurrences: --

☑ URIC ACID LEVEL

Interval: -- Occurrences: --

☑ PHOSPHORUS LEVEL

Interval: -- Occurrences: --

Outpatient Electrolyte Replacement Protocol

TREATMENT CONDITIONS 39

Interval: -- Occurrences: --

Comments: Potassium (Normal range 3.5 to 5.0mEq/L)

o Protocol applies for SCr less than 1.5. Otherwise, contact

MD/NP

o Protocol applies only to same day lab value.

o Serum potassium less than 3.0mEq/L, give 40mEq KCL IV or

PO and contact MD/NP

Serum potassium 3.0 to 3.2mEq/L, give 40mEq KCL IV or PO

o Serum potassium 3.3 to 3.4mEq/L, give 20mEq KCL IV or PO Serum potassium 3.5 mEq/L or greater, do not give potassium

replacement

o If patient meets criteria, order SmartSet called "Outpatient

Electrolyte Replacement"

o Sign electrolyte replacement order as Per protocol: cosign

required

TREATMENT CONDITIONS 40

Interval: -- Occurrences: --

Comments: Magnesium (Normal range 1.6 to 2.6mEq/L)

o Protocol applies for SCr less than 1.5. Otherwise, contact

MD/NP

o Protocol applies only to same day lab value.

o Serum Magnesium less than 1.0mEq/L, give 2 gram magnesium

sulfate IV and contact MD/NP

Serum Magnesium 1.0 to 1.2mEq/L, give 2 gram magnesium

sulfate IV

o Serum Magnesium 1.3 to 1.5mEq/L, give 1 gram magnesium

sulfate IV

o Serum Magnesium 1.6 mEq/L or greater, do not give

magnesium replacement

o If patient meets criteria, order SmartSet called "Outpatient

Electrolyte Replacement"

o Sign electrolyte replacement order as Per protocol: cosign

required

Nursing Orders

ONC NURSING COMMUNICATION 59

Interval: -- Occurrences: --

Comments: Verify that patient took PREDNISONE orally prior to chemotherapy.

Otherwise, please contact physician to order Dexamethasone IV.

Nursing Orders

ONC NURSING COMMUNICATION 51

Interval: -- Occurrences: --

Comments: HOLD Bortezomib and notify provider if Hgb is LESS than or equal to ***

g/dL.

Occurrences: --

Vitals

ONC NURSING COMMUNICATION 50

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

Interval: --

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) injection 8 mg

Dose: 8 mg Route: intravenous once for 1 dose

Start: S End: S 11:15 AM

O ondansetron (ZOFRAN) tablet 16 mg

Dose: 16 mg Route: oral once for 1 dose

Start: S

ondansetron (ZOFRAN) 16 mg in dextrose 5%

50 mL IVPB

Dose: 16 mg Route: intravenous once over 15 Minutes for 1 dose

Start: S End: S 11:00 AM

Ingredients: Name Type Dose Selected Adds Vol.

ONDANSETRON Medications 16 mg Main No HCL (PF) 4 MG/2 Ingredient

ML INJECTION SOLUTION

DEXTROSE 5 % IN Base 50 mL Always Yes

WATER (D5W) INTRAVENOUS SOLUTION

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. 72 hours between doses is recommended.

Ingredients: Name Type Dose Selected Adds Vol.

BORTEZOMIB 3.5 Medications 1.3 Main No

MG SOLUTION mg/m2 Ingredient

FOR INJECTION

SODIUM Base

CHLORIDE 0.9 % INJECTION SOLUTION

Always Yes

Hematology & Oncology Hypersensitivity Reaction Standing Order

ONC NURSING COMMUNICATION 82

Interval: -- 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 4

Interval: -- Occurrences: --

Comments: Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea,

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 83

Interval: -- 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

ONC NURSING COMMUNICATION 76

Interval: -- Occurrences: -- Comments: Discontinue IV.

Discharge Nursing Orders

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 11 Perform every 1 day x1

Appointment Requests

INFUSION APPOINTMENT REQUEST

Interval: -- Occurrences: --

Labs

□ COMPREHENSIVE METABOLIC PANEL

Interval: -- Occurrences: --

CBC WITH PLATELET AND DIFFERENTIAL

Interval: -- Occurrences: --

MAGNESIUM LEVEL

Interval: -- Occurrences: --

✓ LDH

Interval: -- Occurrences: --

☑ URIC ACID LEVEL

Interval: -- Occurrences: --

☑ PHOSPHORUS LEVEL

Interval: -- Occurrences: --

Outpatient Electrolyte Replacement Protocol

TREATMENT CONDITIONS 39

Interval: -- Occurrences: --

Comments: Potassium (Normal range 3.5 to 5.0mEq/L)

o Protocol applies for SCr less than 1.5. Otherwise, contact

MD/NP

o Protocol applies only to same day lab value.

o Serum potassium less than 3.0mEq/L, give 40mEq KCL IV or

PO and contact MD/NP

Serum potassium 3.0 to 3.2mEq/L, give 40mEq KCL IV or PO

o Serum potassium 3.3 to 3.4mEq/L, give 20mEq KCL IV or PO Serum potassium 3.5 mEq/L or greater, do not give potassium

replacement

o If patient meets criteria, order SmartSet called "Outpatient

Electrolyte Replacement"

o Sign electrolyte replacement order as Per protocol: cosign

required

TREATMENT CONDITIONS 40

Interval: -- Occurrences: --

Comments: Magnesium (Normal range 1.6 to 2.6mEq/L)

o Protocol applies for SCr less than 1.5. Otherwise, contact

MD/NP

o Protocol applies only to same day lab value.

o Serum Magnesium less than 1.0mEq/L, give 2 gram magnesium

sulfate IV and contact MD/NP

Serum Magnesium 1.0 to 1.2mEq/L, give 2 gram magnesium

sulfate IV

o Serum Magnesium 1.3 to 1.5mEq/L, give 1 gram magnesium

sulfate IV

o Serum Magnesium 1.6 mEq/L or greater, do not give

magnesium replacement

o If patient meets criteria, order SmartSet called "Outpatient

Electrolyte Replacement"

o Sign electrolyte replacement order as Per protocol: cosign

required

Nursing Orders

ONC NURSING COMMUNICATION 59

Interval: -- Occurrences: --

Comments: Verify that patient took PREDNISONE orally prior to chemotherapy.

Otherwise, please contact physician to order Dexamethasone IV.

Nursing Orders

ONC NURSING COMMUNICATION 51

Interval: -- Occurrences: --

Comments: HOLD Bortezomib and notify provider if Hgb is LESS than or equal to ***

g/dL.

Occurrences: --

Vitals

ONC NURSING COMMUNICATION 50

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

Interval: --

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) injection 8 mg

Dose: 8 mg Route: intravenous once for 1 dose

Start: S End: S 11:15 AM

O ondansetron (ZOFRAN) tablet 16 mg

Dose: 16 mg Route: oral once for 1 dose

Start: S

ondansetron (ZOFRAN) 16 mg in dextrose 5%

50 mL IVPB

Dose: 16 mg Route: intravenous once over 15 Minutes for 1 dose

Start: S End: S 11:00 AM

Ingredients: Name Type Dose Selected Adds Vol.

ONDANSETRON Medications 16 mg Main No HCL (PF) 4 MG/2 Ingredient

ML INJECTION SOLUTION

DEXTROSE 5 % IN Base 50 mL Always Yes

WATER (D5W) INTRAVENOUS SOLUTION

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. 72 hours between doses is recommended.

Ingredients: Name Type Dose Selected Adds Vol.

BORTEZOMIB 3.5 Medications 1.3 Main No

MG SOLUTION mg/m2 Ingredient

FOR INJECTION

SODIUM Base

CHLORIDE 0.9 % INJECTION SOLUTION

Always Yes

Hematology & Oncology Hypersensitivity Reaction Standing Order

ONC NURSING COMMUNICATION 82

Interval: -- 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 4

Interval: -- Occurrences: --

Comments: Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea,

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 83

Interval: -- 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

ONC NURSING COMMUNICATION 76
Interval: -- Occurrences: -Comments: Discontinue IV.

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.