

IP RAMUCIRUMAB / PACLITAXEL (EVERY 28 DAYS)

Types: ONCOLOGY TREATMENT

Synonyms: PACLI, PACLITAXEL, ADENO, CARC, TAX, TAXOL, RAMU, CYRAMZA, CIRAMZA

Cycle 1	Repeat 1 time	Cycle length: 28 days
Day 1	Perform every 1 day x1	
Nursing Orders		
TREATMENT CONDITIONS		
Interval: Once	Occurrences: --	
Comments:	Do NOT administer within 28 days of surgery/procedure and until the surgical wound is fully healed or within 14 days of port placement.	
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: --	
☒ URINALYSIS, AUTOMATED WITH MICROSCOPY		
Interval: Once	Occurrences: --	
Nursing Orders		
TREATMENT CONDITIONS 5		
Interval: Once	Occurrences: --	
Comments:	HOLD and notify provider if PROTEIN 2+ is detected in Urinalysis.	
Nursing Orders		
TREATMENT CONDITIONS 4		
Interval: Once	Occurrences: --	
Comments:	HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000; Total Bilirubin GREATER than 1.5; ALT/AST GREATER than 3 times upper limit of normal; Magnesium LESS than or EQUAL to 1.7.	
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) 8 mg, dexamethasone		

**(DECADRON) 20 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

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

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

Medications

8 mg

Yes

No

DEXAMETHASONE
4 MG/ML
INJECTION
SOLUTION

Medications

20 mg

Yes

No

SODIUM
CHLORIDE 0.9 %
INTRAVENOUS
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN
WATER (D5W)
INTRAVENOUS
SOLUTION

Base

No

Yes

Pre-Medications

☒ **diphenhydrAMINE (BENADRYL) injection 25
mg**

Dose: 25 mg

Route: intravenous

once for 1 dose

Start: S

Instructions:

Administer via slow IV push 30 minutes prior to
chemotherapy.

☐ **diphenhydrAMINE (BENADRYL) 50 mg in
sodium chloride 0.9 % 50 mL IVPB**

Dose: 50 mg

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

DIPHENHYDRAMIN
E 50 MG/ML
INJECTION
SOLUTION

Medications

50 mg

Main
Ingredient

No

SODIUM
CHLORIDE 0.9 %
INTRAVENOUS
SOLUTION

Base

50 mL

Yes

Yes

DEXTROSE 5 % IN
WATER (D5W)
INTRAVENOUS
SOLUTION

Base

50 mL

No

Yes

☐ **diphenhydrAMINE (BENADRYL) tablet 25 mg**

Dose: 25 mg

Route: oral

once for 1 dose

Instructions:

Administer 30 minutes prior to chemotherapy.

☐ **diphenhydrAMINE (BENADRYL) tablet 50 mg**

Dose: 50 mg

Route: oral

once for 1 dose

Instructions:

Administer 30 minutes prior to chemotherapy.

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

Dose: 20 mg Route: intravenous once for 1 dose

Instructions:
Administer 30 minutes prior to chemotherapy.

☐ **famotidine (PEPCID) tablet 20 mg**

Dose: 20 mg Route: oral once for 1 dose

Instructions:
Administer 30 minutes prior to chemotherapy.

☐ **acetaminophen (TYLENOL) tablet 650 mg**

Dose: 650 mg Route: oral once for 1 dose

Instructions:
Administer 30 minutes prior to chemotherapy.

Chemotherapy

ramucirumab (CYRAMZA) 8 mg/kg in sodium chloride 0.9 % 250 mL IVPB

Dose: 8 mg/kg Route: intravenous once over 60 Minutes for 1 dose
Offset: 30 Minutes

Instructions:
Use of a 0.22 micron protein sparing filter is recommended.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RAMUCIRUMAB 10 MG/ML INTRAVENOUS SOLUTION	Medications	8 mg/kg	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	250 mL	Yes	Yes

PAClitaxel (TAXOL) 80 mg/m2 in sodium chloride (NON-PVC) 0.9 % 250 mL chemo IVPB

Dose: 80 mg/m2 Route: intravenous once over 60 Minutes for 1 dose
Offset: 90 Minutes

Instructions:
Administer through a 0.22 micron filter and non-PVC tubing set.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	PACLITAXEL 6 MG/ML CONCENTRATE, INTRAVENOUS	Medications	80 mg/m2	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)	QS Base	250 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC)	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
Comments:

Occurrences: --

- 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
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.

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

TREATMENT CONDITIONS 4

Interval: Once
Comments:

Occurrences: --
HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000; Total Bilirubin GREATER than 1.5; ALT/AST GREATER than 3 times upper limit of normal; Magnesium LESS than or EQUAL to 1.7.

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) 8 mg, dexamethasone (DECADRON) 10 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

8 mg

Yes

No

DEXAMETHASONE
4 MG/ML
INJECTION
SOLUTION

Medications

10 mg

Yes

No

SODIUM
CHLORIDE 0.9 %
INTRAVENOUS
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN
WATER (D5W)
INTRAVENOUS
SOLUTION

Base

No

Yes

Pre-Medications

☒ **diphenhydrAMINE (BENADRYL) injection 25 mg**

Dose: 25 mg

Route: intravenous

once for 1 dose

Start: S

Instructions:

Administer via slow IV push 30 minutes prior to chemotherapy.

☐ **diphenhydrAMINE (BENADRYL) 50 mg in sodium chloride 0.9 % 50 mL IVPB**

Dose: 50 mg

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

DIPHENHYDRAMIN
E 50 MG/ML
INJECTION
SOLUTION

Medications

50 mg

Main

No

SODIUM
CHLORIDE 0.9 %
INTRAVENOUS
SOLUTION

Base

50 mL

Yes

Yes

DEXTROSE 5 % IN
WATER (D5W)
INTRAVENOUS

Base

50 mL

No

Yes

SOLUTION

☐ **diphenhydrAMINE (BENADRYL) tablet 25 mg**

Dose: 25 mg Route: oral once for 1 dose

Instructions:
Administer 30 minutes prior to chemotherapy.

☐ **diphenhydrAMINE (BENADRYL) tablet 50 mg**

Dose: 50 mg Route: oral once for 1 dose

Instructions:
Administer 30 minutes prior to chemotherapy.

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

Dose: 20 mg Route: intravenous once for 1 dose

Instructions:
Administer 30 minutes prior to chemotherapy.

☐ **famotidine (PEPCID) tablet 20 mg**

Dose: 20 mg Route: oral once for 1 dose

Instructions:
Administer 30 minutes prior to chemotherapy.

☐ **acetaminophen (TYLENOL) tablet 650 mg**

Dose: 650 mg Route: oral once for 1 dose

Instructions:
Administer 30 minutes prior to chemotherapy.

Chemotherapy

PAClitaxel (TAXOL) 80 mg/m2 in sodium chloride (NON-PVC) 0.9 % 250 mL chemo IVPB

Dose: 80 mg/m2 Route: intravenous once over 1 Hours for 1 dose
Offset: 30 Minutes

Instructions:
Administer through a 0.22 micron filter and non-PVC tubing set.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	PACLITAXEL 6 MG/ML CONCENTRATE, IN TRAVENOUS SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)	Medications	80 mg/m2	Main Ingredient	Yes
	DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC)	QS Base	250 mL	Yes	Yes
		QS Base		No	Yes

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: --

☒ **URINALYSIS, AUTOMATED WITH MICROSCOPY**

Interval: Once

Occurrences: --

Nursing Orders

TREATMENT CONDITIONS 5

Interval: Once

Occurrences: --

Comments:

HOLD and notify provider if PROTEIN 2+ is detected in Urinalysis.

Nursing Orders

TREATMENT CONDITIONS 4

Interval: Once

Occurrences: --

Comments:

HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000; Total Bilirubin GREATER than 1.5; ALT/AST GREATER than 3 times upper limit of normal; Magnesium LESS than or EQUAL to 1.7.

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) 8 mg, dexamethasone (DECADRON) 10 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

8 mg

Yes

No

SOLUTION

DEXAMETHASONE
4 MG/ML
INJECTION

Medications

10 mg

Yes

No

SOLUTION

SODIUM
CHLORIDE 0.9 %
INTRAVENOUS

Base

50 mL

Always

Yes

SOLUTION

DEXTROSE 5 % IN
WATER (D5W)
INTRAVENOUS

Base

No

Yes

SOLUTION

Pre-Medications

☒ **diphenhydramine (BENADRYL) injection 25 mg**

Dose: 25 mg

Route: intravenous

once for 1 dose

Start: S

Instructions:

Administer via slow IV push 30 minutes prior to

chemotherapy.

☐ **diphenhydrAMINE (BENADRYL) 50 mg in sodium chloride 0.9 % 50 mL IVPB**

Dose: 50 mg Route: intravenous once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	DIPHENHYDRAMIN E 50 MG/ML INJECTION SOLUTION	Medications	50 mg	Main Ingredient	No
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base	50 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base	50 mL	No	Yes

☐ **diphenhydrAMINE (BENADRYL) tablet 25 mg**

Dose: 25 mg Route: oral once for 1 dose

Instructions:

Administer 30 minutes prior to chemotherapy.

☐ **diphenhydrAMINE (BENADRYL) tablet 50 mg**

Dose: 50 mg Route: oral once for 1 dose

Instructions:

Administer 30 minutes prior to chemotherapy.

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

Dose: 20 mg Route: intravenous once for 1 dose

Instructions:

Administer 30 minutes prior to chemotherapy.

☐ **famotidine (PEPCID) tablet 20 mg**

Dose: 20 mg Route: oral once for 1 dose

Instructions:

Administer 30 minutes prior to chemotherapy.

☐ **acetaminophen (TYLENOL) tablet 650 mg**

Dose: 650 mg Route: oral once for 1 dose

Instructions:

Administer 30 minutes prior to chemotherapy.

Chemotherapy

ramucirumab (CYRAMZA) 8 mg/kg in sodium chloride 0.9 % 250 mL chemo IVPB

Dose: 8 mg/kg Route: intravenous once over 60 Minutes for 1 dose
Offset: 30 Minutes

Instructions:

Use of a 0.22 micron protein sparing filter is recommended.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RAMUCIRUMAB 10 MG/ML	Medications	8 mg/kg	Main Ingredient	Yes

INTRAVENOUS SOLUTION SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	Yes	Yes
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Chemotherapy

PACLitaxel (TAXOL) 80 mg/m2 in sodium chloride (NON-PVC) 0.9 % 250 mL chemo IVPB
Dose: 80 mg/m2 Route: intravenous once over 1 Hours for 1 dose
Offset: 1.5 Hours

Instructions:
Administer through a 0.22 micron filter and non-PVC tubing set.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	PACLITAXEL 6 MG/ML CONCENTRATE, IN TRAVENOUS SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)	Medications	80 mg/m2	Main Ingredient	Yes
	DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC)	QS Base	250 mL	Yes	Yes
		QS Base		No	Yes