

## Regimen Reference Order – PACLitaxel desensitization

PACLitaxel desensitization protocol is prescribed in combination with a PACLitaxel-based protocol

To order this therapy in ARIA, refer to Additional Information below

**Planned Course:** Refer to prescribed PACLitaxel-based protocol

**Indication for Use:** Eligible patients with previous hypersensitivity reactions to PACLitaxel

**Alert:** Desensitization protocol

***PACLitaxel:***

- *PACLitaxel is prepared in 3 separate bags with a total volume of 250 mL in each bag*
- *PACLitaxel must be the first chemotherapy agent administered when given in combination with another chemotherapy agent*
- *IV tubing is primed with PACLitaxel (Cytotoxic)*
- *PACLitaxel is administered slowly following specified rate increases. PACLitaxel infusion takes approximately 5.75 hours to complete*

**CVAD:** At Provider’s Discretion

**Blood work requirements:**

- ❖ *Refer to prescribed PACLitaxel-based protocol*

### SEQUENCE OF MEDICATION ADMINISTRATION

Pre-treatment Requirements		
Drug	Dose	CCMB Administration Guideline
<i>Refer to prescribed PACLitaxel-based protocol</i>		

Treatment Regimen – PACLitaxel desensitization		
Establish primary solution 500 mL of: normal saline		
Drug	Dose	CCMB Administration Guideline
famotidine	40 mg	Orally <b>1 hour</b> prior to PACLitaxel
montelukast	10 mg	Orally <b>1 hour</b> prior to PACLitaxel
cetirizine	20 mg	Orally <b>1 hour</b> prior to PACLitaxel
dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes <b>1 hour</b> prior to PACLitaxel <i>*Nursing Alert: PACLitaxel starts 1 hour after completion of dexamethasone infusion</i>

Wait 1 hour after completion of IV pre-medication(s) before starting PACLitaxel		
PACLitaxel	1/100 <sup>th</sup> (1%) of dose (BAG 1)	<p>IV in normal saline 250 mL following the administration rates below:</p> <p><b>Step 1:</b> 2.5 mL/hour for 15 minutes, then</p> <p><b>Step 2:</b> 5 mL/hour for 15 minutes, then</p> <p><b>Step 3:</b> 10 mL/hour for 15 minutes, then</p> <p><b>Step 4:</b> 20 mL/hour for 15 minutes</p> <p><b>Once step 4 is complete, discard remainder of bag and proceed immediately to BAG 2</b></p> <p>Use non-DEHP bags and non-DEHP administration sets with 0.2 or 0.22 micron filter</p> <p><i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i></p> <p><i>*Alert: PACLitaxel must be the first chemotherapy agent administered when given in combination with another chemotherapy agent</i></p> <p><i>*Nursing Alert: IV tubing is primed with PACLitaxel</i></p> <p><i>*Nursing Alert: Gently invert bag 8 to 10 times immediately prior to administration of PACLitaxel to evenly distribute the drug</i></p>
	1/10 <sup>th</sup> (10%) of dose (BAG 2)	<p>IV in normal saline 250 mL following the administration rates below:</p> <p><b>Step 5:</b> 5 mL/hour for 15 minutes, then</p> <p><b>Step 6:</b> 10 mL/hour for 15 minutes, then</p> <p><b>Step 7:</b> 20 mL/hour for 15 minutes, then</p> <p><b>Step 8:</b> 40 mL/hour for 15 minutes</p> <p><b>Once step 8 is complete, discard remainder of bag and proceed immediately to BAG 3</b></p> <p>Use non-DEHP bags and non-DEHP administration sets with 0.2 or 0.22 micron filter</p> <p><i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i></p> <p><i>*Nursing Alert: IV tubing is primed with PACLitaxel</i></p> <p><i>*Nursing Alert: Gently invert bag 8 to 10 times immediately prior to administration of PACLitaxel to evenly distribute the drug</i></p>
	99.2% of dose (BAG 3)	<p>IV in normal saline 250 mL following the administration rates below:</p> <p><b>Step 9:</b> 10 mL/hour for 15 minutes, then</p> <p><b>Step 10:</b> 20 mL/hour for 15 minutes, then</p> <p><b>Step 11:</b> 40 mL/hour for 15 minutes, then</p> <p><b>Step 12:</b> 80 mL/hour until infusion is complete</p> <p>Use non-DEHP bags and non-DEHP administration sets with 0.2 or 0.22 micron filter</p> <p><i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i></p> <p><i>*Nursing Alert: IV tubing is primed with PACLitaxel</i></p> <p><i>*Nursing Alert: Gently invert bag 8 to 10 times immediately prior to administration of PACLitaxel to evenly distribute the drug</i></p>

In the event of an infusion-related hypersensitivity reaction, refer to the 'Hypersensitivity Reaction Standing Order'

## REQUIRED MONITORING

### All Cycles

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O<sub>2</sub> saturation) at baseline and as clinically indicated
- No observation period is required after PACLitaxel administration. Patient can be discharged from treatment room if stable whether they had a reaction or not
- Refer to the prescribed PACLitaxel-based protocol for additional monitoring

### Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
<i>Refer to prescribed PACLitaxel-based protocol</i>		

## DISCHARGE INSTRUCTIONS

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- Refer to the prescribed PACLitaxel-based protocol for additional discharge instructions
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

## ADDITIONAL INFORMATION

- Oncologist must write first prescription of PACLitaxel desensitization protocol
- Once the patient requires PACLitaxel desensitization protocol, all subsequent PACLitaxel doses must be given using PACLitaxel desensitization protocol
- Refer to the prescribed PACLitaxel-based protocol for additional PACLitaxel information
- **ARIA ordering:** Support protocols are available under **PACLitaxel 80 mg/m<sup>2</sup>** and **PACLitaxel 175 mg/m<sup>2</sup>** in the “Desensitization” folder
- Due to the duration of treatment, administration site restrictions may be in place for PACLitaxel desensitization