

## Regimen Reference Order – nivolumab desensitization

Desensitization protocol is prescribed in combination with a nivolumab protocol

To order this therapy in ARIA, refer to ADDITIONAL INFORMATION

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

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

**Alert:** Desensitization protocol

### *nivolumab:*

- *nivolumab is prepared in 3 separate bags with a total volume of 50 mL in BAG 1, 50 mL in BAG 2 and 100 mL in BAG 3*
- *IV tubing is primed with nivolumab*
- *nivolumab is administered slowly following specified rate increases. nivolumab infusion takes approximately 4.5 hours to complete*

CVAD: At Provider's Discretion

### **Blood work requirements:**

- ❖ *Refer to prescribed nivolumab-based protocol*

## SEQUENCE OF MEDICATION ADMINISTRATION

### Pre-treatment Requirements

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

### Treatment Regimen – nivolumab desensitization

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
Administration of nivolumab by desensitization is used in place of nivolumab by standard administration in the prescribed protocol. Follow the sequence of drug administration of the prescribed nivolumab-based protocol		
cetirizine	20 mg	Orally <b>1 hour</b> prior to nivolumab
acetaminophen	975 mg	Orally <b>1 hour</b> prior to nivolumab
montelukast	10 mg	Orally <b>1 hour</b> prior to nivolumab
acetylsalicylic acid	650 mg	Orally <b>1 hour</b> prior to nivolumab

hydrocortisone	100 mg	IV in normal saline 50 mL over 15 minutes <b>1 hour</b> prior to nivolumab <i>*Nursing Alert: nivolumab starts 1 hour after completion of hydrocortisone infusion</i>
<b>Wait 1 hour after completion of IV pre-medication(s) before starting nivolumab</b>		
nivolumab	0.5% of dose (BAG 1)	IV in normal saline 50 mL following the administration rates below: <b>Step 1:</b> 2 mL/hour for 15 minutes, then <b>Step 2:</b> 5 mL/hour for 15 minutes, then <b>Step 3:</b> 10 mL/hour for 15 minutes, then <b>Step 4:</b> 20 mL/hour for 15 minutes <b>Once step 4 is complete, discard remainder of bag and proceed immediately to BAG 2</b> <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume in bag = 50 mL</i> <i>*Nursing Alert: IV tubing is primed with nivolumab</i>
	5% of dose (BAG 2)	IV in normal saline 50 mL following the administration rates below: <b>Step 5:</b> 5 mL/hour for 15 minutes, then <b>Step 6:</b> 10 mL/hour for 15 minutes, then <b>Step 7:</b> 20 mL/hour for 15 minutes, then <b>Step 8:</b> 40 mL/hour for 15 minutes <b>Once step 8 is complete, discard remainder of bag and proceed immediately to BAG 3</b> <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume in bag = 50 mL</i> <i>*Nursing Alert: IV tubing is primed with nivolumab</i>
	98.2% of dose (BAG 3)	IV in normal saline 100 mL following the administration rates below: <b>Step 9:</b> 10 mL/hour for 15 minutes, then <b>Step 10:</b> 20 mL/hour for 15 minutes, then <b>Step 11:</b> 40 mL/hour for 15 minutes, then <b>Step 12:</b> 80 mL/hour until infusion is complete <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume in bag = 100 mL</i> <i>*Nursing Alert: IV tubing is primed with nivolumab</i>

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 nivolumab administration. Patient can be discharged from treatment room if stable whether they had a reaction or not
- Refer to the prescribed nivolumab-based protocol for additional monitoring

### Recommended Support Medications

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

### DISCHARGE INSTRUCTIONS

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity occur after discharge
- Refer to the prescribed nivolumab-based protocol for additional instructions

### ADDITIONAL INFORMATION

- Oncologist must write first prescription of nivolumab desensitization protocol
- Once the patient requires nivolumab desensitization protocol, all subsequent nivolumab doses must be given using nivolumab desensitization protocol
- Refer to the prescribed nivolumab-based protocol for additional nivolumab information
- **ARIA ordering:** Support protocols are available under **nivo q14d (3 mg/kg)**, **nivo q21d (1 mg/kg)**, **nivo q21d (3 mg/kg)**, **nivo q21d (4.5 mg/kg)**, **nivo q28d (6 mg/kg)** in the “Desensitization” folder