

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 below

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
Day 1		
cetirizine	20 mg	Orally 1 hour prior to nivolumab
acetaminophen	975 mg	Orally 1 hour prior to nivolumab
montelukast	10 mg	Orally 1 hour prior to nivolumab
acetylsalicylic acid	650 mg	Orally 1 hour prior to nivolumab
hydrocortisone	100 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to nivolumab <i>*Nursing Alert: nivolumab starts 1 hour after completion of hydrocortisone infusion</i>

Wait 1 hour after completion of IV pre-medication(s) before starting nivolumab

nivolumab	0.5% of dose (BAG 1)	<p>IV in normal saline 50 mL following the administration rates below:</p> <p>Step 1: 2 mL/hour for 15 minutes, then</p> <p>Step 2: 5 mL/hour for 15 minutes, then</p> <p>Step 3: 10 mL/hour for 15 minutes, then</p> <p>Step 4: 20 mL/hour for 15 minutes</p> <p>Once step 4 is complete, discard remainder of bag and proceed immediately to BAG 2</p> <p>Use 0.2 or 0.22 micron filter</p> <p><i>*Alert: Pharmacy to ensure final volume in bag = 50 mL</i></p> <p><i>*Nursing Alert: IV tubing is primed with nivolumab</i></p>
	5% of dose (BAG 2)	<p>IV in normal saline 50 mL following the administration rates below:</p> <p>Step 5: 5 mL/hour for 15 minutes, then</p> <p>Step 6: 10 mL/hour for 15 minutes, then</p> <p>Step 7: 20 mL/hour for 15 minutes, then</p> <p>Step 8: 40 mL/hour for 15 minutes</p> <p>Once step 8 is complete, discard remainder of bag and proceed immediately to BAG 3</p> <p>Use 0.2 or 0.22 micron filter</p> <p><i>*Alert: Pharmacy to ensure final volume in bag = 50 mL</i></p> <p><i>*Nursing Alert: IV tubing is primed with nivolumab</i></p>
	98.2% of dose (BAG 3)	<p>IV in normal saline 100 mL following the administration rates below:</p> <p>Step 9: 10 mL/hour for 15 minutes, then</p> <p>Step 10: 20 mL/hour for 15 minutes, then</p> <p>Step 11: 40 mL/hour for 15 minutes, then</p> <p>Step 12: 80 mL/hour until infusion is complete</p> <p>Use 0.2 or 0.22 micron filter</p> <p><i>*Alert: Pharmacy to ensure final volume in bag = 100 mL</i></p> <p><i>*Nursing Alert: IV tubing is primed with nivolumab</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 O₂ 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