



Patient Name: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

PHYO

CMC85675-001NS Rev. 6/2021

## Intravenous Immunoglobulin (IVIG) (Rheumatology) Infusion Therapy Plan

### Baseline Patient Demographic

To be completed by the ordering provider.

Diagnosis: \_\_\_\_\_ Height: \_\_\_\_\_ cm Weight: \_\_\_\_\_ kg Body Surface Area: \_\_\_\_\_ (m<sup>2</sup>)
 NKDA - No Known Drug Allergies       Allergies: \_\_\_\_\_

### Therapy Plan orders extend over time (several visits) including recurring treatment.

Please specify the following regarding the entire course of therapy:

Duration of treatment: \_\_\_\_\_ weeks \_\_\_\_\_ months \_\_\_\_\_ unknown

Treatment should begin:     as soon as possible (within a week)     within the month**\*\*Plans must be reviewed / re-ordered at least annually. \*\***

## ORDERS TO BE COMPLETED FOR EACH THERAPY

### ADMIT ORDERS

 Height and weight Vital signs

#### Hypotension Defined Admit

 Nursing communication

Prior to starting infusion, please determine the patient's threshold for hypotension as defined by the following parameters. This information will be needed in the event of an infusion reaction occurring.

Hypotension is defined as follows:

1 month to 1 year - systolic blood pressure (SBP) less than 70

1 year to 11 years - systolic blood pressure (SBP) less than 70 + (2 x age in years)

11 years to 17 years - systolic blood pressure (SBP) less than 90

OR any age - systolic blood pressure (SBP) drop of more than 30% from baseline.

Baseline systolic blood pressure (SBP) x 0.7 = value below defined as hypotension.

### NURSING ORDERS

Please select all appropriate therapy

#### IV START NURSING ORDERS

 Insert peripheral IV / Access IVAD

Place PIV if needed or access IVAD if available

 lidocaine 1% BUFFERED (J-TIP LIDOCAINE)

0.2 mL, INTRADERMAL, PRN

 when immediate procedure needed     when procedure will take about 1 minute     patient / family preference for procedure
Administration Instructions: NOTE: Do not use this medication in patients with bleeding disorders, platelets  $\leq$  20,000, or in patients taking anticoagulants, when accessing implanted ports or using a vein that will be utilized for chemotherapy administration, nor for pre-term infants or neonates. lidocaine - prilocaine (EMLA) cream

TOPICAL, PRN

 when more than 60 minutes are available before procedure     when procedure will take more than 1 hour

 patient / family preference for procedure

Administration Instructions: NOTE: In children &lt; 3 months of age, or &lt; 5 kg in weight, maximum application time is 1 hour.

 lidocaine - tetracaine (SYNERA) patch

TOPICAL, PRN

 when 20 - 30 minutes are available before procedure     when procedure will take more than 1 hour

 when anticipated pain is less than 5 mm from skin surface     patient / family preference for procedure



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### ORDERS TO BE COMPLETED FOR EACH THERAPY

#### NURSING ORDERS, CONTINUED

Please select all appropriate therapy

 **lidocaine with transparent dressing 4% kit**

TOPICAL, PRN

 when 20 - 30 minutes are available before procedure     when procedure will take more than 1 hour

 patient / family preference for procedure

 **Heparin flush**
**heparin flush**

10 - 50 units, INTRAVENOUS, PRN, IV line flush. Per protocol, heparin should not be used to flush peripheral IVs. This heparin flush should be used with all central lines including IVADs, with the exception of de-accessing the IVAD.

**heparin flush**

100 - 300 units, INTRAVENOUS, PRN, IV line flush. Per protocol, heparin should not be used to flush peripheral IVs. For use only when de-accessing IVADs.

 **Sodium chloride flush**
**Sodium chloride flush 0.9% injection**

1 - 20 mL, INTRAVENOUS, PRN, IV line flush

**Sodium chloride - preservative free 0.9% injection**

1 - 30 mL, INTRAVENOUS, PRN, IV line flush

#### PRE-MEDICATIONS

 **Acetaminophen pre-medication 30 minutes prior (15 mg / kg, maximum 650 mg)**
**Nursing communication**

Administer only one of the acetaminophen orders, suspension or tablets, do not give both.

**acetaminophen suspension**

15 mg / kg, ORAL, for 1 dose pre-medication, give 30 minutes prior to infusion

**Dose:** \_\_\_\_\_

**acetaminophen tablet**

15 mg / kg ORAL, for 1 dose pre-medication, give 30 minutes prior to infusion

**Dose:** \_\_\_\_\_

 **Diphenhydramine pre-medication 30 minutes prior (1 mg / kg, maximum 50 mg)**
**Nursing communication**

Administer only one of the diphenhydrAMINE pre-medication orders, liquid, capsule or injection, do not give more than one of the orders as a pre-medication.

**diphenhydrAMINE liquid**

1 mg / kg, ORAL, for 1 dose pre-medication, give 30 minutes prior to infusion

**Dose:** \_\_\_\_\_

**diphenhydrAMINE capsule**

1 mg / kg ORAL, for 1 dose pre-medication, give 30 minutes prior to infusion

**Dose:** \_\_\_\_\_

**diphenhydrAMINE injection**

1 mg / kg, INTRAVENOUS, 1 dose pre-medication, give 30 minutes prior to infusion

**Dose:** \_\_\_\_\_



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**Intravenous Immunoglobulin (IVIG)  
(Rheumatology) Infusion Therapy Plan**

**ORDERS TO BE COMPLETED FOR EACH THERAPY**

**INTRA-PROCEDURE**

Please select all appropriate therapy

**INTRAVENOUS IMMUNOGLOBULIN (IVIG)**

**Physician Communication Order**

\*\*Gamunex is the preferred CHST product, but if Gammagard is needed, be sure to select the correct product\*\*

Typical starting dose of IVIG: 1 gm / kg IV daily x 2 doses (2 gm / kg total), maximum 60 gm per dose, given every 4 weeks. Please enter the dose of IVIG in 'gm' to facilitate prior authorization requirements.

**Therapy Appointment Request**

Please select department for the therapy appointment request:

Expires in 365 days

- Dallas Special Procedures     Plano Infusion Center     Dallas Allergy     Dallas Transplant     Dallas Neurology

**INTRAVENOUS IMMUNOGLOBULIN (IVIG) Gamunex - C**

**Vital Signs**

Check baseline blood pressure, pulse, respirations and temperature prior to starting of IVIG infusion. Observe frequently, every 15 - 30 minutes, upon initiation of IVIG infusion for signs of symptoms and / or complaints of infusion related reactions. Monitor every 15 - 30 minutes until maximum infusion rate is reached. Continue vital signs hourly after maximum rate is reached. If an adverse effect occurs, slow the infusion rate or temporarily interrupt the infusion.

**Nursing Communication**

Monitor fluid intake and urine output during infusion and as needed.

**Nursing communication**

IVIG administration rate if using a 10 % solution: INFUSE OVER \_\_\_\_\_ HOURS.

<input type="checkbox"/>	Initial Infusion Rate	
	0.05 gm / kg / hour = 0.5 mL / kg / hour	for 15 - 30 minutes then increase to
	0.1 gm / kg / hour = 1 mL / kg / hour	then after 15 - 30 minutes increase to
	0.2 gm / kg / hour = 2 mL / kg / hour	then after 15 - 30 minutes increase to
	0.4 gm / kg / hour = 4 mL / kg / hour	until infusion complete

Maximum initial infusion rate is 0.4 gm / kg / hour = 4 mL / kg / hour

\*\*Consider reduced infusion rate if patient is at risk for renal insufficiency, thromboembolic events, volume overload, and / or utilizing 10% solution for initial dose.

<input type="checkbox"/>	Initial Infusion REDUCED Rate	
	0.025 gm / kg / hour = 0.25 mL / kg / hour	for 15 - 30 minutes then increase to
	0.05 gm / kg / hour = 0.5 mL / kg / hour	then after 15 - 30 minutes increase to
	0.1 gm / kg / hour = 1 mL / kg / hour	then after 15 - 30 minutes increase to
	0.2 gm / kg / hour = 2 mL / kg / hour	until infusion complete

Maximum initial infusion REDUCED rate is 0.2 gm / kg / hour = 2 mL / kg / hour



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**ORDERS TO BE COMPLETED FOR EACH THERAPY**

**INTRA-PROCEDURE, CONTINUED**

**INTRAVENOUS IMMUNOGLOBULIN (IVIG) - GAMUNEX-C**

**Physician communication order**

\*\*Gamunex is the preferred CHST product, but if Gammagard is needed, be sure to select the correct product\*\*

Typical starting dose of IVIG: 1 gm / kg IV daily x 2 doses (2 gm / kg total), maximum 60 gm per dose, given every 4 weeks. Please enter the dose of IVIG in 'gm' to facilitate prior authorization requirements.

<input type="checkbox"/>	<b>IVIG - GAMUNEX - C</b> <b>immune globulin 10% (GAMUNEX - C) 1 gram / 10 mL (10%) injection</b> INTRAVENOUS, ONCE, see "IVIG Administration Policy" for administration directions. <b>Dose:</b> _____	<b>Every 4 weeks, Day 1</b>
<input type="checkbox"/>	<b>IVIG - GAMUNEX - C</b> <b>immune globulin 10% (GAMUNEX - C) 1 gram / 10 mL (10%) injection</b> INTRAVENOUS, ONCE, see "IVIG Administration Policy" for administration directions. <b>Dose:</b> _____	<b>Every 4 weeks, Day 2</b>

**INTRAVENOUS IMMUNOGLOBULIN (IVIG) GAMMAGARD**

**Vital Signs**

Check baseline blood pressure, pulse, respirations and temperature prior to starting of IVIG infusion. Observe frequently, every 15 - 30 minutes, upon initiation of IVIG infusion for signs of symptoms and / or complaints of infusion related reactions. Monitor every 15 - 30 minutes until maximum infusion rate is reached. Continue vital signs hourly after maximum rate is reached. If an adverse effect occurs, slow the infusion rate of temporarily interrupt the infusion.

**Nursing Communication**

Monitor fluid intake and urine output during infusion and as needed.

**Nursing communication**

IVIG administration rate if using a 10 % solution: INFUSE OVER \_\_\_\_\_ HOURS.

<input type="checkbox"/>	<b>Initial Infusion Rate</b>	
	0.05 g / kg / hour = 0.5 mL / kg / hour	for 15 - 30 minutes then increase to
	0.1 g / kg / hour = 1 mL / kg / hour	then after 15 - 30 minutes increase to
	0.2 g / kg / hour = 2 mL / kg / hour	then after 15 - 30 minutes increase to
	0.4 g / kg / hour = 4 mL / kg / hour	until infusion complete

Maximum initial infusion rate is 0.4 g / kg / hour = 4 mL / kg / hour

\*\*Consider reduced infusion rate if patient is at risk for renal insufficiency, thromboembolic events, volume overload, and / or utilizing 10% solution for initial dose.

<input type="checkbox"/>	<b>Initial Infusion REDUCED Rate</b>	
	0.025 g / kg / hour = 0.25 mL / kg / hour	for 15 - 30 minutes then increase to
	0.05 g / kg / hour = 0.5 mL / kg / hour	then after 15 - 30 minutes increase to
	0.1 g / kg / hour = 1 mL / kg / hour	then after 15 - 30 minutes increase to
	0.2 g / kg / hour = 2 mL / kg / hour	until infusion complete

Maximum initial infusion REDUCED rate is 0.2 g / kg / hour = 2 mL / kg / hour

Key: cm = centimeter; gm = gram; IV = intravenous; IVAD = implantable venous access device; IVIG = intravenous immunoglobulin; kg = kilogram; m<sup>2</sup> = square meters; mg = milligram; mL = milliliter; mL / hr = milliliters per hour; mOsm / L = milliosmole per liter; NKDA = No Known Drug Allergies; pH = hydrogen ion concentration; PIV = peripheral intravenous; PRN = as needed; SBP = systolic blood pressure



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### ORDERS TO BE COMPLETED FOR EACH THERAPY

#### INTRA-PROCEDURE, CONTINUED

#### INTRAVENOUS IMMUNOGLOBULIN (IVIG) - GAMMAGARD

##### Physician communication order

\*\*Gamunex is the preferred CHST product, but if Gammagard is needed, be sure to select the correct product\*\*

Typical starting dose of IVIG: 1 gm / kg IV daily x 2 doses (2 gm / kg total), maximum 60 gm per dose, given every 4 weeks. Please enter the dose of IVIG in 'gm' to facilitate prior authorization requirements.

 **IVIG - GAMMAGARD**

immune globulin 10% (GAMMAGARD) 1 gram / 10 mL (10%) injection

Every 4 weeks, Day 1

INTRAVENOUS, ONCE, see "IVIG Administration Policy" for administration directions.

Dose: \_\_\_\_\_

 **IVIG - GAMMAGARD**

immune globulin 10% (GAMMAGARD) 1 gram / 10 mL (10%) injection

Every 4 weeks, Day 2

INTRAVENOUS, ONCE, see "IVIG Administration Policy" for administration directions.

Dose: \_\_\_\_\_

#### EMERGENCY MEDICATIONS

 **Nursing communication**

1. Hives or cutaneous reaction only – no other system involvement

**PATIENT IS HAVING A DRUG REACTION:**

- Stop the infusion
- Give diphenhydramine as ordered
- Check heart rate, respiratory rate and blood pressure every 5 minutes until further orders from provider.
- Connect patient to monitor (cardiac / apnea, blood pressure and oxygen saturation) if not already on one
- Notify provider for further orders

2. Hives or cutaneous reaction plus one other system, i.e. abdominal cramping, vomiting, hypotension, altered mental status, respiratory distress, mouth / tongue swelling

**PATIENT IS HAVING ANAPHYLAXIS:**

- Stop the infusion
- Call code – do not wait to give epinephrine
- Give epinephrine as ordered
- Notify provider
- Check heart rate, respiratory rate and blood pressure every 5 minutes until the code team arrives.
- Connect patient to monitor (cardiac / apnea, blood pressure and oxygen saturation), if not already on one.
- Give diphenhydramine once as needed for hives
- May repeat epinephrine every 5 minutes x 2 doses for persistent hypotension and respiratory distress with desaturation until code team arrives.
- May give albuterol as ordered for wheezing with oxygen saturation stable while waiting for code team, continue to monitor oxygen saturation.

**Hypotension is Defined as Follows:**

1 month to 1 year – systolic blood pressure (SBP) less than 70  
 1 year to 11 years – systolic blood pressure (SBP) less than  $70 + (2 \times \text{age in years})$   
 11 years to 17 years – systolic blood pressure (SBP) less than 90  
 OR any age – systolic blood pressure (SBP) drop more than 30% from baseline.  
 Baseline systolic blood pressure (SBP)  $\times 0.7 =$  value below defined as hypotension.

 **EPINEPHrine Injection Orderable For Therapy Plan**

(AMPULE / EPI - PEN JR. / EPI - PEN) 0.01 mg / kg

0.01 mg / kg, INTRAMUSCULAR, EVERY 5 MINUTES PRN, for anaphylaxis and may be repeated for persistent hypotension and respiratory distress with desaturation until the code team arrives, for 3 doses

Use caution with PIV administration. This solution has a pH < 5, or a pH > 9, or an osmolality > 600 mOsm / L.

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**ORDERS TO BE COMPLETED FOR EACH THERAPY**

**INTRA-PROCEDURE, CONTINUED**

**Cardio / Respiratory Monitoring**  
**Rationale for Monitoring: High risk patient (please specify risk)**

- Clinically significant cardiac anomalies or dysrhythmias
- Recent acute life-threatening event
- Unexplained or acutely abnormal vital signs
- Artificial airway (stent, tracheostomy, oral airway)
- Acute, fluctuating or consistent oxygen requirements

Monitor Parameters (select all that apply):  Heart rate  Oxygen saturation  Respiratory rate  
Telemetry Required:  Yes  No

**diphenhydrAMINE injection**

1 mg / kg, INTRAVENOUS, ONCE PRN, for hives or cutaneous reaction, for 1 dose maximum dose = 50 mg per dose, 300 mg per day.

**Dose:** \_\_\_\_\_

**Albuterol for aerosol**

0.25 mg / kg., INHALATION ONCE PRN, for wheezing, but oxygen saturations stable while waiting for code team, continue to monitor oxygen saturation for 1 dose

**Dose:** \_\_\_\_\_

**POST-PROCEDURE**

**Nursing communication**

Flush PIV or IVAD with 20 mL 0.9% sodium chloride (250 mL bag) at the completion of the infusion.  
Flush IVAD with saline and heparin flush per protocol prior to de-accessing IVAD.  
Discontinue PIV prior to discharge.

**Sodium chloride 0.9% infusion**

INTRAVENOUS, at 0 - 25 mL / hour ONCE, for 1 dose

**Dose:** \_\_\_\_\_

(circle one):  
MD DO

\_\_\_\_\_  
Signature of Provider

\_\_\_\_\_  
Credentials

\_\_\_\_\_  
Date

\_\_\_\_\_  
Time

\_\_\_\_\_  
Printed Name of Provider