



Patient Name: _____

Date of Birth: _____

PHYO
CMC85552-01 Rev. 6/2021

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

Baseline Patient Demographic

To be completed by the ordering provider.

Diagnosis: _____ Height: _____ cm Weight: _____ kg Body Surface Area: _____ (m²)

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 < 3 months of age, or < 5 kg in weight, maximum application time is 1 hour.

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NURSING ORDERS

- 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
- 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-PROCEDURE LABS

- Basic Metabolic Panel** INTERVAL: Every Visit
Unit collect
- Hepatic Function Panel** INTERVAL: Every Visit
Unit collect
- Gamma Glutamyl Transferase** INTERVAL: Every Visit
Unit collect
- Magnesium** INTERVAL: Every Visit
Unit collect
- Phosphorus** INTERVAL: Every Visit
Unit collect
- Complete Blood Count with Differential** INTERVAL: Every Visit
Unit collect
- Tacrolimus** INTERVAL: Every Visit
Unit collect, needs to be drawn PRIOR to morning dose
- Cyclosporine Random** INTERVAL: Every Visit
Unit collect, needs to be drawn PRIOR to morning dose
- Sirolimus** INTERVAL: Every Visit
Unit collect, needs to be drawn PRIOR to morning dose
- CMV Quantitative PCR** INTERVAL: Once DEFER UNTIL: _____ DURATION: For 1 Treatment
Unit collect

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PRE-PROCEDURE LABS, CONTINUED

- Epstein Barr Virus Quantitative PCR INTERVAL: Once DEFER UNTIL: _____ DURATION: For 1 Treatment
Unit collect
- BK Virus DNA PCR Quantitative INTERVAL: Once DEFER UNTIL: _____ DURATION: For 1 Treatment
Unit collect

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: _____

INTRA - PROCEDURE

INTRAVENOUS IMMUNOGLOBULIN (IVIG)

- Physician communication order**
GAMUNEX is the CHST preferred product, but if GAMMAGARD is needed, be sure to select the correct product.
- 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.



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ORDERS TO BE COMPLETED FOR EACH THERAPY

INTRA-PROCEDURE, CONTINUED

Nursing communication

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

Nursing communication

IVIG administration rate if using a 10% solution. And 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

Physician Communication Order

Typical dose of IVIG (may be modified per provider discretion). Please enter the dose of IVIG in 'gm' to facilitate prior authorization requirements. 1 gm / kg given daily (Maximum daily dose = 70 gm. May give total dose over 2 days if necessary). Repeat every 2 or 4 weeks.

immune globulin 10% (GAMUNEX - C) INTERVAL: Every 2 Weeks DURATION: For _____ Treatments
1 gram / 10 mL (10%) injection
 INTRAVENOUS, ONCE, see "IVIG Administration Policy" for administration directions.
Dose: _____

immune globulin 10% (GAMUNEX - C) INTERVAL: Every 4 Weeks DURATION: For _____ Treatments
1 gram / 10 mL (10%) injection
 INTRAVENOUS, ONCE, see "IVIG Administration Policy" for administration directions.
Dose: _____

INTRAVENOUS IMMUNOGLOBULIN - 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 or temporarily interrupt the infusion.

Nursing communication

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

Key: cm = centimeter; CMV = cytomegalovirus; gm = gram; IV = intravenous; IVAD = implantable venous access device; IVIG = intravenous immunoglobulin; kg = kilogram; m² = 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; PCR = polymerase chain reaction; PIV = peripheral intravenous; PRN = as needed; SBP = systolic blood pressure; SOTP = Solid Organ Transplant



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INTRA-PROCEDURE, CONTINUED

Nursing communication

IVIG administration rate if using a 10% solution. And INFUSE OVER _____ HOURS.

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.

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

Physician Communication Order

Typical dose of IVIG (may be modified per provider discretion). Please enter the dose of IVIG in 'gm' to facilitate prior authorization requirements. 1 gm / kg given daily (Maximum daily dose = 70 gm. May give total dose over 2 days if necessary). Repeat every 2 or 4 weeks.

<input type="checkbox"/>	immune globulin 10% (GAMMAGARD) 10% injection	INTERVAL: Every 2 weeks	DURATION: For _____ Treatments
	INTRAVENOUS, ONCE, see "IVIG Administration Policy" for administration directions.		
	Dose: _____		
<input type="checkbox"/>	immune globulin 10% (GAMMAGARD) 10% injection	INTERVAL: Every 4 Weeks	DURATION: For _____ Treatments
	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:**

- a. Stop the infusion
- b. Give diphenhydramine as ordered
- c. Check vitals including blood pressure every 5 minutes until further orders from provider.
- d. Connect patient up to monitor (cardiac / apnea, blood pressure and oxygen saturation), if not already on one
- e. Notify provider for further orders

Key: cm = centimeter; CMV = cytomegalovirus; gm = gram; IV = intravenous; IVAD = implantable venous access device; IVIG = intravenous immunoglobulin; kg = kilogram; m² = 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; PCR = polymerase chain reaction; PIV = peripheral intravenous; PRN = as needed; SBP = systolic blood pressure; SOTP = Solid Organ Transplant



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EMERGENCY MEDICATIONS, CONTINUED

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:**

- a. Stop the infusion
- b. Call code – do not wait to give epinephrine
- c. Give epinephrine as ordered
- d. Notify provider
- e. Check vitals including blood pressure every 5 minutes until the code team arrives.
- f. Connect patient to monitor (cardiac / apnea, blood pressure and oxygen saturation), if not already on one.
- g. Give diphenhydramine once as needed for hives
- h. May repeat epinephrine every 5 minutes x 2 doses for persistent hypotension and respiratory distress with desaturation until code team arrives.
- i. May give albuterol as ordered for wheezing with oxygen saturations 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 x age in years)
- 11 years to 17 years – systolic blood pressure (SPB) less than 90
- OR any age – systolic blood pressure (SPB) drop more than 30% from baseline.
- Baseline systolic blood pressure x 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.

Dose: _____

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.



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POST - PROCEDURE

- Sodium chloride 0.9% infusion**
 INTRAVENOUS at 0 - 25 mL / hr, ONCE, for 1 dose.
Dose: _____

Signature of Provider	(circle one): MD DO	Date	Time
Printed Name of Provider	Credentials		

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