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Date of Birth:	

PHYO CMC84596-001NS Rev. 12/2020

Intravenous Immunoglobulin (IVIG) (for Immunology) - Therapy Plan

BASELINE PATIENT DEMOGRAPHIC To be completed by the ordering provider. NKDA - No Known Drug Allergies Height: cm Weight: kg Body Surface Area: (m²)
☐ 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
Place PIV if needed or access IVAD if available
☐ lidocaine 1% BUFFERED (J-TIP LIDOCAINE)
0.2 mL, intradermal, PRN
when immediate procedure needed
Administration Instructions: NOTE: Do not use this medication in patients with bleeding disorders, platelets < 20,000, or in patients taking anticognitates when accessing implanted parts or using a vein that will be utilized for champtherapy administration, nor for are term infants or

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.



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ORDERS TO BE COMPLETED FOR EACH THERAPY

✓ Lymphocyte proliferation, mitogens

Unit collect

NURSING ORDERS, CONTINUED
☐ 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.
☐ 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
Select one:
□ 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 0.9% injection
1 - 20 mL, INTRAVENOUS, PRN, IV line flush
sodium chloride - pres free 0.9% injection
1 - 30 mL, INTRAVENOUS, PRN, IV line flush
PRE- PROCEDURE LABS
SCID panel Unit collect



☑ Lactate dehydrogenase

Unit collect

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ORDERS	TO BE COMPLETED FOR EACH THERAPY
PRE-PRC	CEDURE LABS, CONTINUED
✓ Lympl	nocyte proliferation, antigens
Unit col	lect
Lymph	nocyte immunophenotype - extended
Unit col	lect
☑ Immur	noglobulin G
Unit co	lect
Immur	noglobulin E
Unit co	lect
Immur	noglobulin A
Unit co	lect
✓ Immur	noglobulin M
Unit col	lect
☑ Comp	rehensive metabolic panel
Unit col	lect
☑ Comp Unit col	ete blood count with differential
☑ Urinal	
✓ T-Cell	receptor excision circles
Unit col	lect
✓ T-Cell Unit col	recent thymic emigrants
Unit col	immunphenotyping test lect It lab to Mayo Clinic
Unit col	ed BTK gene sequencing test lect It lab to Mayo Clinic
Unit col	spectratyping test lect t lab to Mayo Clinic
✓ C-read	tive protein
Unit co	llect
Sedim Unit co	entation rate erytrocyte llect

Key: cm = centimeter; 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; ODT = orally disintegrating tablet; pH = hydrogen ion concentration; PIV = peripheral intravenous; PRN = as needed; PVC = polyvinyl chloride; SCID = severe combined immunodeficiency



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ORDERS TO BE COMPLETED FOR EACH THERAPY

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:
☐ Ibuprofen pre-medication 30 minutes prior (10 mg / kg, maximum 600 mg)
Nursing Communication
Administer only one of the ibuprofen orders, suspension or tablets, do not give both.
Ibuprofen suspension
10 mg / kg, ORAL, for 1 dose pre-medication, give 30 minutes prior to infusion
Dose:
Ibuprofen tablet
10 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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ORDERS TO BE COMPLETED FOR EACH THERAPY

PRE-	MEDICATIONS, CONTINUED		
□ Or	dansetron pre-medication 30 minutes pri	ior (0.1 mg / kg, maximum 4 mg)	
Nι	rsing communication		
	minister only one of the ondansetron orders, solu	tion or ODT, do not give both.	
On	dansetron solution		
_	AL, PRN, pre-medication, give 30 minutes prior tose:	o infusion, for 1 dose	
On	dansetron ODT		
_	AL, PRN, pre-medication, give 30 minutes prior to see:	o infusion, for 1 dose	
□ns	bolus PRN		
soc	ium chloride 0.9% for fluid bolus infusion 10 mL /	kg	
	RAVENOUS, ONCE PRN, pre-medications, give pse:	30 minutes prior to infusion, for 1 dose, Administe	er over 30 minutes
INTRA	A-PROCEDURE		
	erapy appointment request ease select department for the therapy a	ppointment request:	
Ex	pires in 365 days		
•	☐ Dallas Special Procedures		
	☐ Plano Infusion Center		
	☐ Dallas Allergy		
	☐ Dallas Transplant		
	☐ Dallas Neurology		
fre ev	quently, every 15 - 30 minutes, upon initiation of	od pressure, pulse, respirations and temperatur f IVIG infusion for signs of symptoms and / or co e is reached. Continue vital signs hourly after m t the infusion.	mplaints of infusion related reactions. Monitor
Ø Nι	rsing communication		
	onitor fluid intake and urine output during infusion	and as needed.	
	rsing communication G administration rate if using a 10 % solution:		
		for renal insufficiency, thromboembolic events, vo DURS** (see policy for reduced rate)	olume overload, and / or utilizing 10% solution
	Initial Infusion Rate		1
	(Reduced Rate) = (0.05 g /kg / hour) 0.5mL / kg / hour	After 15 - 30 minutes at previous rate	
	(0.025 g / kg / hour) 0.25 mL / kg / hour)	(0.1 g / kg / hour) 1 mL / kg / hour	
	(0.05 g / kg / hour) 0.5 mL / kg / hour)	(0.2 g / kg / hour) 2 mL / kg / hour	
	(0.1 g / kg / hour) 1 mL / kg / hour)	(0.4 g / kg / hour) 4 mL / kg / hour	

(**Maximum Initial Infusion / Reduced Rate (0.2 g / kg / hour) 2 mL / kg / hour)



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ORDERS TO BE COMPLETED FOR EACH THERAPY	
INTRA-PROCEDURE, CONTINUED	
☑ Physician communication order	
Please select one Gamunex or Gammaguard. *GAMUNEX is the preferred CHS warranted. Dose of IVIG typically begins at 400 mg/kg. Please enter the dose of IVIG in	
Select one:	
☐ Immune globulin 10% (GAMUNEX - C) 1 gram / 10 mL 10% injection	Every 4 weeks
INTRAVENOUS, ONCE, see "IVIG admin policy" for administration directions. Dose:	
☐ Immune globulin 10% (GAMMAGARD) 10% injection	Every 4 weeks
INTRAVENOUS, ONCE, see "IVIG admin 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
- 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 (BP) every 5 minutes until the code team arrives.
 - f. Connect patient up 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 saturation stable while waiting for code team continue to monitor oxygen saturation. hypotension.

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 more than 30% from baseline.

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



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DRDERS TO BE COMPLETED FOR EACH THERAPY
EMERGENCY MEDICATIONS, CONTINUED
□ EPINEPHrine injection (AMPULE / EPI - PEN JR. / EPI - PEN) 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)
(Patient receiving infusion with potential infusion reactions); heart rate, respiratory rate, oxygen saturation Rationale for Monitoring: High risk patient (please specify risk) Parameters: heart rate, respiratory rate, oxygen saturation Alarm limits: preset to age specified limits
☐ 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 or 1 dose Dose:
POST - PROCEDURE
☐ Nursing communication
NS bolus
Sodium Chloride 0.9% for fluid bolus infusion 10 mL / kg, Intravenous, Once PRN, post-procedure hydration, Administer over 30 minutes
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 on the last day of infusion.
□ sodium chloride 0.9% infusion
INTRAVENOUS at 0 - 25 mL / hr ONCE Dose:
CONSULT TO SERVICE
□ Consult to Child Life Note: ————
Consult to Social Work

Key: cm = centimeter; 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; ODT = orally disintegrating tablet; pH = hydrogen ion concentration; PIV = peripheral intravenous; PRN = as needed; PVC = polyvinyl chloride; SCID = severe combined immunodeficiency



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Intravenous Immunoglobulin (IVIG) PHYO

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ORDERS TO BE COMPLETED FOR EACH TH	HERAPY		
CONSULT TO SERVICE			
☐ Consult to Psychology Note:			
☐ Consult to Care Coordination Note:			
	(circle one): MD DO		
Signature of Provider	Credentials	Date	Time
Printed Name of Provider			