CHILDREN'S HEALTH	Page 1 of 5		
	Patient Name:		
	Date of Birth:		
PHYO Natalizumab (TYSABRI) CMC85551-001NS Rev. 5/2021 Infusion Therapy Plan			
Baseline Patient Demographic			
To be completed by the ordering provider.			
Diagnosis: cm We	ight: kg Body Surface Area: (m <sup>2</sup> )		
NKDA - No Known Drug Allergies Allergies:			
Therapy Plan orders extend over time (several visits) including recurring treatme	ent.		
Please specify the following regarding the entire course of therapy:			
	unknown		
Treatment should begin: as soon as possible (within a week)	n the month		
**Plans must be reviewed / re-ordered at least annually. **			
ORDERS TO BE COMPLETED FOR EACH THERAPY			
ADMIT ORDERS			
Physician Communication Order			
Patient should be enrolled in M.S. Touch Program. Prior to infusion, complete M.	S. Touch questionnaire.		
Investigation Nursing Communication Hold infusion if the patient has any of the following: Any signs or symptoms of inf	action cold or influenze. Hold influeion, notify provider and draw		
/ collect the following labs CBC, BMP, Urine for UA and Culture and Sensitivity.	ection, cold, or initidenza. Hold initision, holiry provider and draw		
Complete Blood Count with Differential INTERVAL: PRN	DURATION: Until Discontinued		
Unit collect, hold infusions if the patient has any of the following: Any signs or symptoms of infection, cold or influenza. Hold infusion, notify provider and draw / collect the following labs CBC, BMP, Urine for UA and Culture and Sensitivity.			
Basic Metabolic Panel INTERVAL: PRN	DURATION: Until Discontinued		
Unit collect, hold infusions if the patient has any of the following: Any signs or provider and draw / collect the following labs CBC, BMP, Urine for UA and Cultur			
☐ Urine Culture and Urinalysis INTERVAL: PRN Unit collect, clean catch, urine. hold infusions if the patient has any of the following infusion, notify provider and draw / collect the following labs CBC, BMP, Urine for			
✓ Height and weight			
☑ Vital signs			
Hypotension Defined Admit			
□ Nursing communication			
Prior to starting infusion, please determine the patient's threshold for hypotension 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	as defined by the following parameters. This information will be		
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			

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Key: BMP = basic metabolic profile; CBC = complete blood count; cm = centimeter; CMP = comprehensive metabolic panel; IV = intravenous; IVAD = implantable venous access device; kg = kilogram; LFT = liver function test; m<sup>2</sup> = square meters; mg = milligram; mL = milliliter; mL / hr = milliliters per hour; mOsm / L = milliosmole per liter; MS = multiple sclerosis; NaCI = sodium chloride; NKDA = no known drug allergies; PCR = polymerase chain reaction; pH = hydrogen ion concentration; PIV = peripheral intravenous; PRN = as needed; RTA = ready to administer; SBP = systolic blood pressure; TOUCH = Outreach Unified Commitment to Health; UA = urinalysis



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# Natalizumab (TYSABRI) Infusion Therapy Plan

Patient Name:	

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# ORDERS TO BE COMPLETED FOR EACH THERAPY

# NURSING ORDERS, CONTINUED Please select all appropriate therapy Iidocaine 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 < 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 Iidocaine - 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. Iidocaine - tetracaine (SYNERA) patch TOPICAL. PRN ☐ when 20 - 30 minutes are available before procedure □ when anticipated pain is less than 5 mm from skin surface □ patient / family preference for procedure Iidocaine 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 - preserative free 0.9% injection

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

#### **PRE-PROCEDURE LABS**

#### Physician Communication Order

Initial labs: CBC with Differential, CMP, Urine Culture and Urinalysis. If not performed in the last 60 days, they must be completed prior to enrollment in the Biogen program and prior to the first infusion of natalizumab. The following baseline labs must be completed and cleared by the ordering provider prior to the first administration of natalizumab: (CBC with Differential and CMP)."



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# Natalizumab (TYSABRI) Infusion Therapy Plan

# ORDERS TO BE COMPLETED FOR EACH THERAPY

# PRE-PROCEDURE LABS, CONTINUED

#### Physician Communication Order

CBC with differential and Platelets. BMP, LFT's (initial dose, 2nd dose, 3rd dose, then every 6 months (24 weeks)

Complete Blood Count With Differential Unit Collect, 1st, 2nd, and 3rd doses.	INTERVAL: Every 4 Weeks	DURATION: Until Discontinued
Complete Blood Count With Differential Unit Collect, Every 6 months (24 weeks)	INTERVAL: Every 24 Weeks	DURATION: Until Discontinued
Comprehensive Metabolic Panel Unit Collect, 1st, 2nd, and 3rd doses.	INTERVAL: Every 4 Weeks	DURATION: Until Discontinued
Comprehensive Metabolic Panel Unit Collect, every 6 months (24 weeks)	INTERVAL: Every 24 Weeks	DURATION: Until Discontinued
Miscellaneous Send Out Test	INTERVAL: Every 24 Weeks	DURATION: Until Discontinued

Patient Name: \_ Date of Birth: \_

Unit Collect, Anti-JC Virus Ab with Reflex Titer at baseline and every 6 months (24 weeks) Note: Do NOT send PCR, send JCV Ab

#### **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:** 

#### cetrizine tablet 10 mg

10 mg, ORAL. ONCE, for 1 dose pre-medication, give 30 minutes prior to infusion **Dose:** 

## INTRA-PROCEDURE

#### Vital Signs

Vitals: pre-infusion, post infusion and 1 hour following infusion. Monitor for any signs or symptoms of hypersensitivity / allergic reactions or side effects, including, but not limited to: urticaria, pruritus, chest pain, fever, nausea, vomiting, hypotension, rash, flushing, shortness of breath, rigors, dizziness. If signs or symptoms of hypersensitivity develop, stop infusion, contact the provider and start 0.9% NaCl at 100 mL / hour and supportive measures as necessary.

Key: BMP = basic metabolic profile; CBC = complete blood count; cm = centimeter; CMP = comprehensive metabolic panel; IV = intravenous; IVAD = implantable venous access device; kg = kilogram; LFT = liver function test;  $m^2$  = square meters; mg = milligram; mL = milliliter; mL / hr = milliliter; mOsm / L = milliosmole per liter; MS = multiple sclerosis; NaCl = sodium chloride; NKDA = no known drug allergies; PCR = polymerase chain reaction; pH = hydrogen ion concentration; PIV = peripheral intravenous; PRN = as needed; RTA = ready to administer; SBP = systolic blood pressure; TOUCH = Outreach Unified Commitment to Health; UA = urinalysis



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# Natalizumab (TYSABRI) Infusion Therapy Plan

# INTRA-PROCEDURE, CONTINUED

V	methyIPREDNISolone RTA infusion 250 mg	INT	TERVAL: Every 4 \	Neeks	DURATION: For 3	treatments
	NTRAVENOUS, ONCE, give with first 3 doses of natalizumab.	For doses > to 10 m	ng / kg, see Policy 7	.10.16, asse	ss and document h	eart rate and
	blood pressure (BP) every 15 minutes during infusion and for	1 hour after the infu	usion is complete. I	Doses > 15 r	mg / kg should be	given over a
	minimum of 1 hour.					
	Dose:					

# Instalizumab 300 mg in sodium chloride 0.9% 100 mL infusion INTERVAL: Every 4 Weeks DURATION: Until Discontinued 300 mg, INTRAVENOUS, at 115 mL / hour, ONCE, starting 0.5 hours after treatment start time. Infuse over a minimum of 1 hour and flush with normal saline after infusion is complete. Monitor for signs of hypersensitivity for 1 hour after infusion is complete. PROTECT FROM LIGHT. Dose:

## Therapy Appointment Request

#### Please select department for the therapy appointment request:

## Expires in 365 days

Dallas Special Procedures Delano Infusion C	enter Dallas Allergy	Dallas Transplant	Dallas Neurology
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# **EMERGENCY MEDICATIONS**

#### ✓ Nursing communication

- 1. Hives or cutaneous reaction only no other system involvement PATIENT IS HAVING A DRUG REACTION:

  - a. Stop the infusionb. Give diphenhydramine as ordered
  - C. Check beart rate, respiratory rate and blood pressure every 5 minutes
  - c. Check heart rate, respiratory rate and blood pressure every 5 minutes until further orders from provider.
  - d. Connect patient 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 heart rate, respiratory rate and 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 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 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:

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# Natalizumab (TYSABRI) Infusion Therapy Plan

## ORDERS TO BE COMPLETED FOR EACH THERAPY

## **EMERGENCY MEDICATIONS**

#### 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**

#### Sodium chloride 0.9% infusion

INTRAVENOUS, for 1 dose Give 50 mL post-infusion hydration to run at 100 mL / hour x 30 minutes. Dose:

#### ✓ 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: \_\_\_\_

Signature of Provider

Credentials

Date

DO

(circle one): MD

Patient Name: \_ Date of Birth:

Time

Printed Name of Provider

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