



PHYO

CMC85043-001NS Rev. 2/2021

Cyclophosphamide (CYTOXAN) Infusion Therapy Plan

Patient Name: _____

Date of Birth: _____

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.

PREGNANCY TESTS AT DALLAS AND PLANO

Nursing communication

Only one pregnancy test is necessary, based on facility capabilities. Please utilize the lab that is available per facility.

 Patient requires a pregnancy test (based on organizational policy, female patients over 10 require a pregnancy test)

Pregnancy test, urine - POC

STAT, ONE TIME, for females > 10 years old. If positive, do NOT infuse and contact the ordering provider.

Gonadotropin chorionic (HCG) urine

STAT, ONE TIME, unit collect, for females > 10 years old. If positive, do NOT infuse and contact ordering provider.

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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ORDERS TO BE COMPLETED FOR EACH THERAPY

NURSING ORDERS

Please select all appropriate therapy

 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.

 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

 Complete Blood Count with Differential

STAT, ONE TIME, unit collect

INTERVAL: Every visit

DURATION: Until discontinued

 Urinalysis

STAT, ONE TIME, unit collect

INTERVAL: Every visit

DURATION: Until discontinued



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INTRA - PROCEDURE

Nursing communication

Parameters to be met prior to administration of cyclophosphamide, if any parameters are not met, notify ordering provider: WBC > or = 4,000
ANC > or = 1,500 specific gravity < 1.010 Urine HCG is negative

Physician communication order

Mesna dose = 20% of cyclophosphamide dose and ondansetron dose = 0.15 mg / kg (maximum 8 mg)

mesa, ondansetron RTA 0.15 mg / kg in dextrose 5% 50 mL infusion **INTERVAL: Every visit** **DURATION: Until discontinued**

INTRAVENOUS, at 100 mL / hour, EVERY 4 HOURS, for 3 doses, administer over 30 minutes. Mesna dose = 20% of cyclophosphamine dose and ondansetron dose = 0.15 mg / kg (maximum 8 mg), give at hours 1, 5, and 9, with IVF starting at hour 0.

Dose: _____

Physician communication order

Cyclophosphamide dose = 500 - 1,000 mg / m² / dose. Please enter the dose of cyclophosphamide in 'mg' to facilitate prior authorization requirements.

cyclophosphamide in dextrose 5% 100 mL infusion **INTERVAL: Every 4 weeks** **DURATION: Until discontinued**

INTRAVENOUS, ONCE, starting 0.5 hours after treatment start time, administer over 1 hour.

Dose: _____

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

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 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.



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ORDERS TO BE COMPLETED FOR EACH THERAPY

EMERGENCY MEDICATIONS, CONTINUED

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 on the last day of infusion.

Sodium chloride 0.9% infusion

INTRAVENOUS, ONCE, for 1 dose

Dose: _____

heparin flush 100 unit / mL 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.

Dose: _____

Nursing communication

Discharge with instructions to have aggressive fluid intake over the next 24 hours.

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

Key: ANC = absolute neutrophil count; cm = centimeter; D5 = dextrose 5% injection; HCG = gonadotropin chorionic; IgG = immunoglobulin G; IV = intravenous; IVAD = implantable venous access device; IVF = intravenous fluid(s); kg = kilogram; L = liter; m² = square meters; mg = milligram; mL = milliliter; mL / hr = milliliters per hour; mOsm / L = milliosmole per liter; NKDA = no known drug allergies; nacl = sodium chloride (salt); NS = normal saline; pH = hydrogen ion concentration; PIV = peripheral intravenous; POC = point of care; PRN = as needed; SBP = systolic blood pressure; STAT = immediately; WBC = white blood count