

## IP HYPERCVAD A AND B (ALTERNATING)

*Types:* ONCOLOGY TREATMENT

*Synonyms:* HYERCVAD, LYMPH, CYCLO, MESNA, DOXO, VINCR, CVAD, DECA, ADRIA, PART A , CYTOX

|                            |  |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                             |
|----------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Pre-Treatment Cycle</b> |  | Repeat 1 time                                                                                                                                                                                                                                                                                                                                           | Cycle length: 1 day                                                                                         |
| <b>Day 1</b>               |  | Perform every 1 day x1                                                                                                                                                                                                                                                                                                                                  |                                                                                                             |
| Pre-Medications            |  |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                             |
|                            |  | <b>dexamethasone (DECADRON) 4 MG tablet</b>                                                                                                                                                                                                                                                                                                             |                                                                                                             |
|                            |  | Dose: 40 mg                                                                                                                                                                                                                                                                                                                                             | Route: oral      daily with breakfast                                                                       |
|                            |  | Dispense: 60 tablet                                                                                                                                                                                                                                                                                                                                     | Refills: 3                                                                                                  |
|                            |  | Start: S                                                                                                                                                                                                                                                                                                                                                | End: S+4                                                                                                    |
|                            |  | Instructions:                                                                                                                                                                                                                                                                                                                                           |                                                                                                             |
|                            |  | As directed by Doctor. Days 1-4 and 11-14.                                                                                                                                                                                                                                                                                                              |                                                                                                             |
| <b>HyperCVAD Part 1A</b>   |  | Repeat 1 time                                                                                                                                                                                                                                                                                                                                           | Cycle length: 21 days                                                                                       |
| <b>Day 1</b>               |  | Perform every 1 day x1                                                                                                                                                                                                                                                                                                                                  |                                                                                                             |
| Labs                       |  |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                             |
|                            |  | <input checked="" type="checkbox"/> <b>CBC WITH PLATELET AND DIFFERENTIAL</b>                                                                                                                                                                                                                                                                           |                                                                                                             |
|                            |  | Interval: Once                                                                                                                                                                                                                                                                                                                                          | Occurrences: --                                                                                             |
|                            |  | <input checked="" type="checkbox"/> <b>COMPREHENSIVE METABOLIC PANEL</b>                                                                                                                                                                                                                                                                                |                                                                                                             |
|                            |  | Interval: Once                                                                                                                                                                                                                                                                                                                                          | Occurrences: --                                                                                             |
|                            |  | <input checked="" type="checkbox"/> <b>MAGNESIUM LEVEL</b>                                                                                                                                                                                                                                                                                              |                                                                                                             |
|                            |  | Interval: Once                                                                                                                                                                                                                                                                                                                                          | Occurrences: --                                                                                             |
|                            |  | <input type="checkbox"/> <b>LDH</b>                                                                                                                                                                                                                                                                                                                     |                                                                                                             |
|                            |  | Interval: Once                                                                                                                                                                                                                                                                                                                                          | Occurrences: --                                                                                             |
|                            |  | <input type="checkbox"/> <b>URIC ACID LEVEL</b>                                                                                                                                                                                                                                                                                                         |                                                                                                             |
|                            |  | Interval: Once                                                                                                                                                                                                                                                                                                                                          | Occurrences: --                                                                                             |
| Provider Communication     |  |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                             |
|                            |  | <b>ONC PROVIDER COMMUNICATION 5</b>                                                                                                                                                                                                                                                                                                                     |                                                                                                             |
|                            |  | Interval: Once                                                                                                                                                                                                                                                                                                                                          | Occurrences: --                                                                                             |
|                            |  | Comments:                                                                                                                                                                                                                                                                                                                                               | Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%. |
| Provider Communication     |  |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                             |
|                            |  | <b>ONC PROVIDER COMMUNICATION</b>                                                                                                                                                                                                                                                                                                                       |                                                                                                             |
|                            |  | Interval: Once                                                                                                                                                                                                                                                                                                                                          | Occurrences: --                                                                                             |
|                            |  | Comments:                                                                                                                                                                                                                                                                                                                                               | Verify Ejection Fraction prior to Cycle 1. Ejection Fraction: ***% on *** (date).                           |
|                            |  | If patient has not had a recent MUGA or ECHO, order one via order entry. A baseline cardiac evaluation with a MUGA scan or an ECHO is recommended, especially in patients with risk factors for increased cardiac toxicity. Repeated MUGA or ECHO determinations of LVEF should be performed, particularly with higher, cumulative anthracycline doses. |                                                                                                             |
| Line Flush                 |  |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                             |
|                            |  | <b>sodium chloride 0.9 % flush 20 mL</b>                                                                                                                                                                                                                                                                                                                |                                                                                                             |
|                            |  | Dose: 20 mL                                                                                                                                                                                                                                                                                                                                             | Route: intravenous      PRN                                                                                 |
|                            |  | Start: S                                                                                                                                                                                                                                                                                                                                                |                                                                                                             |

## Hydration

### **sodium chloride 0.9 % infusion**

Dose: 100 mL/hr

Route: intravenous

continuous

Start: S

## Nursing Orders

### **sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

## Pre-Medications



### **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: 16 mg

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

#### **Ingredients:**

#### **Name**

#### **Type**

#### **Dose**

#### **Selected**

#### **Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

No

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

No

Yes



### **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.



### **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.



### **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

Instructions:

Administer 30 minutes prior to chemotherapy.

#### **Ingredients:**

#### **Name**

#### **Type**

#### **Dose**

#### **Selected**

#### **Adds Vol.**

APREPITANT 7.2  
MG/ML  
INTRAVENOUS  
EMULSION

Medications

130 mg

Main

Yes

Ingredient

DEXTROSE 5 % IN  
WATER (D5W) IV  
SOLP (EXCEL:

Base

130 mL

Yes

Yes

|                                                                    |      |        |    |     |
|--------------------------------------------------------------------|------|--------|----|-----|
| NON-PVC)<br>SODIUM<br>CHLORIDE 0.9 % IV<br>SOLP<br>(EXCEL;NON-PVC) | Base | 130 mL | No | Yes |
|--------------------------------------------------------------------|------|--------|----|-----|

#### Hydration

☐ (No Medication Selected)

Dose: -- Route: intravenous continuous

Start: S

Ingredients:

| Name                                                      | Type | Dose     | Selected | Adds Vol. |
|-----------------------------------------------------------|------|----------|----------|-----------|
| DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base | 1,000 mL | No       | Yes       |

#### Nursing Orders

##### ONC NURSING COMMUNICATION 59

Interval: Until  
discontinued

Occurrences: --

Comments:

First mesna bag needs to start at the same time as cyclophosphamide initiation.

#### Chemotherapy

☒ dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg Route: oral once for 1 dose  
Start: S

☒ cyclophosphamide (CYTOXAN) 300 mg/m2 in  
sodium chloride 0.9 % 250 mL chemo IVPB

Dose: 300 mg/m2 Route: intravenous every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

| Ingredients: | Name                                                             | Type        | Dose         | Selected           | Adds Vol. |
|--------------|------------------------------------------------------------------|-------------|--------------|--------------------|-----------|
|              | CYCLOPHOSPHAM<br>IDE 1 GRAM<br>INTRAVENOUS<br>SOLUTION<br>SODIUM | Medications | 300<br>mg/m2 | Main<br>Ingredient | Yes       |
|              |                                                                  | QS Base     | 250 mL       | Yes                | Yes       |

CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION  
DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

QS Base 250 mL No Yes

☒ **mesna (MESNEX) 600 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB**

Dose: 600 mg/m2 Route: intravenous once over 24 Hours for 1 dose  
Offset: 30 Minutes

| Ingredients: | Name                                             | Type        | Dose      | Selected        | Adds Vol. |
|--------------|--------------------------------------------------|-------------|-----------|-----------------|-----------|
|              | MESNA 100 MG/ML INTRAVENOUS SOLUTION             | Medications | 600 mg/m2 | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION       | QS Base     | 500 mL    | Yes             | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | QS Base     | 500 mL    | No              | Yes       |

Supportive Care

**allopurinol (ZYLOPRIM) tablet 300 mg**

Dose: 300 mg Route: oral 2 times daily

Start: S

Instructions:

Dosing: reduce dose to 100 mg if Acute Renal Failure.

Hematology & Oncology Hypersensitivity Reaction Standing Order

**ONC NURSING COMMUNICATION 82**

Interval: Until discontinued

Occurrences: --

Comments:

Grade 1 - MILD Symptoms (cutaneous and subcutaneous symptoms only – itching, flushing, periorbital edema, rash, or runny nose)

1. Stop the infusion.
2. Place the patient on continuous monitoring.
3. Obtain vital signs.
4. Administer Normal Saline at 50 mL per hour using a new bag and new intravenous tubing.
5. If greater than or equal to 30 minutes since the last dose of Diphenhydramine, administer Diphenhydramine 25 mg intravenous once.
6. If less than 30 minutes since the last dose of Diphenhydramine, administer Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
7. Notify the treating physician.
8. If no improvement after 15 minutes, advance level of care to Grade 2 (Moderate) or Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**ONC NURSING COMMUNICATION 83**

Interval: Until discontinued

Occurrences: --

Comments:

Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea, vomiting, dizziness, diaphoresis, throat or chest tightness, abdominal or back pain)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
6. Administer Normal Saline at 150 mL per hour using a new bag and new intravenous tubing.
7. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous), Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
8. If no improvement after 15 minutes, advance level of care to Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### ONC NURSING COMMUNICATION 4

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 3 – SEVERE Symptoms (hypoxia, hypotension, or neurologic compromise – cyanosis or O2 saturation less than 92%, hypotension with systolic blood pressure less than 90 mmHg, confusion, collapse, loss of consciousness, or incontinence)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. If heart rate is less than 50 or greater than 120, or blood pressure is less than 90/50 mmHg, place patient in reclined or flattened position.
6. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
7. Administer Normal Saline at 1000 mL intravenous bolus using a new bag and new intravenous tubing.
8. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous) and Famotidine 20 mg intravenous once.
9. Administer Epinephrine (1:1000) 0.3 mg subcutaneous.
10. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### **diphenhydramine (BENADRYL) injection 25 mg**

Dose: 25 mg                      Route: intravenous                      PRN  
Start: S

#### **fexofenadine (ALLEGRA) tablet 180 mg**

Dose: 180 mg                      Route: oral                      PRN  
Start: S

#### **famotidine (PEPCID) 20 mg/2 mL injection 20 mg**

Dose: 20 mg                      Route: intravenous                      PRN  
Start: S

#### **hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg**

Dose: 100 mg                      Route: intravenous                      PRN

#### **dexamethasone (DECADRON) injection 4 mg**

Dose: 4 mg                      Route: intravenous                      PRN  
Start: S

#### **epINEPhrine (ADRENALIN) 1 mg/10 mL ADULT**

**injection syringe 0.3 mg**

Dose: 0.3 mg      Route: subcutaneous      PRN  
Start: S

**Discharge Nursing Orders**☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL      Route: intravenous      PRN

☒ **HEParin, porcine (PF) injection 500 Units**

Dose: 500 Units      Route: intra-catheter      once PRN  
Start: S  
Instructions:  
Concentration: 100 units/mL. Heparin flush for  
Implanted Vascular Access Device  
maintenance.

**Day 2****Perform every 1 day x1****Nursing Orders****sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL      Route: intravenous      once @ 30 mL/hr for 1 dose  
Start: S  
Instructions:  
To keep vein open.

**Pre-Medications**☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --      Route: intravenous      once over 15 Minutes for 1 dose  
Start: S

| Ingredients: | Name                                              | Type        | Dose  | Selected | Adds Vol. |
|--------------|---------------------------------------------------|-------------|-------|----------|-----------|
|              | ONDANSETRON HCL (PF) 4 MG/2 ML INJECTION SOLUTION | Medications | 16 mg | Yes      | No        |
|              | DEXAMETHASONE 4 MG/ML INJECTION SOLUTION          | Medications | 12 mg | No       | No        |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION        | Base        | 50 mL | Always   | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION  | Base        |       | No       | Yes       |

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg      Route: oral      once for 1 dose  
Start: S

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg      Route: oral      once for 1 dose  
Start: S

☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg      Route: intravenous      once over 30 Minutes for 1 dose  
Start: S      End: S

| Ingredients: | Name                 | Type        | Dose   | Selected       | Adds Vol. |
|--------------|----------------------|-------------|--------|----------------|-----------|
|              | APREPITANT 7.2 MG/ML | Medications | 130 mg | Main Inredient | Yes       |

|                       |      |        |     |     |  |
|-----------------------|------|--------|-----|-----|--|
| INTRAVENOUS EMULSION  |      |        |     |     |  |
| DEXTROSE 5 % IN       | Base | 130 mL | Yes | Yes |  |
| WATER (D5W) IV        |      |        |     |     |  |
| SOLP (EXCEL; NON-PVC) |      |        |     |     |  |
| SODIUM                | Base | 130 mL | No  | Yes |  |
| CHLORIDE 0.9 % IV     |      |        |     |     |  |
| SOLP                  |      |        |     |     |  |
| (EXCEL;NON-PVC)       |      |        |     |     |  |

#### Hydration

☐ (No Medication Selected)

Dose: --

Route: intravenous

continuous

Start: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

DEXTROSE 5 % IN

Base

1,000 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

#### Chemotherapy

☒ **dexamethasone (DECADRON) tablet 40 mg**

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

☒ **cyclophosphamide (CYTOXAN) 300 mg/m2 in sodium chloride 0.9 % 250 mL chemo IVPB**

Dose: 300 mg/m2

Route: intravenous

every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

CYCLOPHOSPHAM

Medications

300

Main

Yes

IDE 1 GRAM

mg/m2

Ingredient

INTRAVENOUS

SOLUTION

SODIUM

QS Base

250 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

|                 |         |        |    |     |  |
|-----------------|---------|--------|----|-----|--|
| SOLUTION        |         |        |    |     |  |
| DEXTROSE 5 % IN | QS Base | 250 mL | No | Yes |  |
| WATER (D5W)     |         |        |    |     |  |
| INTRAVENOUS     |         |        |    |     |  |
| SOLUTION        |         |        |    |     |  |

☒ **mesna (MESNEX) 600 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB**

|                 |                    |                               |
|-----------------|--------------------|-------------------------------|
| Dose: 600 mg/m2 | Route: intravenous | once over 24 Hours for 1 dose |
|                 |                    | Offset: 30 Minutes            |

| Ingredients: | Name                                             | Type        | Dose      | Selected        | Adds Vol. |
|--------------|--------------------------------------------------|-------------|-----------|-----------------|-----------|
|              | MESNA 100 MG/ML INTRAVENOUS SOLUTION             | Medications | 600 mg/m2 | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION       | QS Base     | 500 mL    | Yes             | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | QS Base     | 500 mL    | No              | Yes       |

Intrathecal Injections

**methotrexate PF 12 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

|                                        |                    |                                |
|----------------------------------------|--------------------|--------------------------------|
| Dose: 12 mg                            | Route: intrathecal | once over 5 Minutes for 1 dose |
| Start: S                               | End: S             |                                |
| Instructions:                          |                    |                                |
| Preservative free for intrathecal use. |                    |                                |

| Ingredients: | Name                                                 | Type        | Dose    | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|---------|-----------------|-----------|
|              | METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION | Medications | 12 mg   | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INJECTION SOLUTION             | QS Base     | 4.52 mL | Yes             | Yes       |

Day 3

Perform every 1 day x1

Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

|                    |                    |                            |
|--------------------|--------------------|----------------------------|
| Dose: 250 mL       | Route: intravenous | once @ 30 mL/hr for 1 dose |
| Start: S           |                    |                            |
| Instructions:      |                    |                            |
| To keep vein open. |                    |                            |

Pre-Medications

☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

|          |                    |                                 |
|----------|--------------------|---------------------------------|
| Dose: -- | Route: intravenous | once over 15 Minutes for 1 dose |
| Start: S |                    |                                 |

| Ingredients: | Name                                              | Type        | Dose  | Selected | Adds Vol. |
|--------------|---------------------------------------------------|-------------|-------|----------|-----------|
|              | ONDANSETRON HCL (PF) 4 MG/2 ML INJECTION SOLUTION | Medications | 16 mg | Yes      | No        |
|              | DEXAMETHASONE 4 MG/ML INJECTION SOLUTION          | Medications | 12 mg | No       | No        |
|              | SODIUM CHLORIDE 0.9 %                             | Base        | 50 mL | Always   | Yes       |

|                                                                                                   |                                                      |                      |             |                                 |                  |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------|-------------|---------------------------------|------------------|
| INTRAVENOUS SOLUTION                                                                              |                                                      | DEXTROSE 5 % IN Base |             | No                              | Yes              |
| WATER (D5W)                                                                                       |                                                      |                      |             |                                 |                  |
| INTRAVENOUS SOLUTION                                                                              |                                                      |                      |             |                                 |                  |
| <input type="checkbox"/> <b>ondansetron (ZOFTRAN) tablet 16 mg</b>                                |                                                      |                      |             |                                 |                  |
| Dose: 16 mg                                                                                       |                                                      | Route: oral          |             | once for 1 dose                 |                  |
| Start: S                                                                                          |                                                      |                      |             |                                 |                  |
| <input type="checkbox"/> <b>dexamethasone (DECADRON) tablet 12 mg</b>                             |                                                      |                      |             |                                 |                  |
| Dose: 12 mg                                                                                       |                                                      | Route: oral          |             | once for 1 dose                 |                  |
| Start: S                                                                                          |                                                      |                      |             |                                 |                  |
| <input type="checkbox"/> <b>aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB</b> |                                                      |                      |             |                                 |                  |
| Dose: 130 mg                                                                                      |                                                      | Route: intravenous   |             | once over 30 Minutes for 1 dose |                  |
| Start: S                                                                                          |                                                      | End: S               |             |                                 |                  |
| <b>Ingredients:</b>                                                                               | <b>Name</b>                                          | <b>Type</b>          | <b>Dose</b> | <b>Selected</b>                 | <b>Adds Vol.</b> |
|                                                                                                   | APREPITANT 7.2 MG/ML                                 | Medications          | 130 mg      | Main Ingredient                 | Yes              |
|                                                                                                   | INTRAVENOUS EMULSION                                 |                      |             |                                 |                  |
|                                                                                                   | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base                 | 130 mL      | Yes                             | Yes              |
|                                                                                                   | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base                 | 130 mL      | No                              | Yes              |

Hydration

|                                                       |                             |                    |             |                 |                  |
|-------------------------------------------------------|-----------------------------|--------------------|-------------|-----------------|------------------|
| <input type="radio"/> <b>(No Medication Selected)</b> |                             |                    |             |                 |                  |
| Dose: --                                              |                             | Route: intravenous |             | continuous      |                  |
| Start: S                                              |                             |                    |             |                 |                  |
| <b>Ingredients:</b>                                   | <b>Name</b>                 | <b>Type</b>        | <b>Dose</b> | <b>Selected</b> | <b>Adds Vol.</b> |
|                                                       | DEXTROSE 5 % IN WATER (D5W) | Base               | 1,000 mL    | No              | Yes              |
|                                                       | INTRAVENOUS SOLUTION        |                    |             |                 |                  |

## Chemotherapy

### ☒ dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

### ☒ cyclophosphamide (CYTOXAN) 300 mg/m<sup>2</sup> in sodium chloride 0.9 % 250 mL chemo IVPB

Dose: 300 mg/m<sup>2</sup>

Route: intravenous

every 12 hours over 120 Minutes for 2 doses

Offset: 30 Minutes

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

CYCLOPHOSPHAM

Medications

300

Main

Yes

IDE 1 GRAM

mg/m<sup>2</sup>

Ingredient

INTRAVENOUS

SOLUTION

SODIUM

QS Base

250 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

DEXTROSE 5 % IN

QS Base

250 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

### ☒ mesna (MESNEX) 600 mg/m<sup>2</sup> in sodium chloride 0.9 % 500 mL chemo IVPB

Dose: 600 mg/m<sup>2</sup>

Route: intravenous

once over 24 Hours for 1 dose

Offset: 30 Minutes

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

MESNA 100 MG/ML

Medications

600

Main

Yes

INTRAVENOUS

SOLUTION

SODIUM

QS Base

500 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

DEXTROSE 5 % IN

QS Base

500 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

## Day 4

Perform every 1 day x1

### Nursing Orders

#### sodium chloride 0.9 % infusion 250 mL

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

### Pre-Medications

### ☒ ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

ONDANSETRON

Medications

16 mg

Yes

No

HCL (PF) 4 MG/2

ML INJECTION

SOLUTION

DEXAMETHASONE

Medications

12 mg

No

No

4 MG/ML

|                                                                                                                                           |      |       |        |     |
|-------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|-----|
| INJECTION<br>SOLUTION<br>SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION<br>DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base | 50 mL | Always | Yes |
|                                                                                                                                           | Base |       | No     | Yes |

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

|             |             |                 |
|-------------|-------------|-----------------|
| Dose: 16 mg | Route: oral | once for 1 dose |
| Start: S    |             |                 |

☐ **dexamethasone (DECADRON) tablet 12 mg**

|             |             |                 |
|-------------|-------------|-----------------|
| Dose: 12 mg | Route: oral | once for 1 dose |
| Start: S    |             |                 |

☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

|              |                    |                                 |
|--------------|--------------------|---------------------------------|
| Dose: 130 mg | Route: intravenous | once over 30 Minutes for 1 dose |
| Start: S     | End: S             |                                 |

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

Hydration

☐ **(No Medication Selected)**

|          |                    |            |
|----------|--------------------|------------|
| Dose: -- | Route: intravenous | continuous |
| Start: S |                    |            |

| Ingredients: | Name                                             | Type | Dose     | Selected | Adds Vol. |
|--------------|--------------------------------------------------|------|----------|----------|-----------|
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | Base | 1,000 mL | No       | Yes       |

## Chemotherapy

### dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

### DOXOrubicin (ADRIAmycin) 50 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB

Dose: 50 mg/m2

Route: intravenous

once over 15 Minutes for 1 dose

Offset: 30 Minutes

Instructions:

Protect from light; VESICANT

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

DOXORUBICIN 50 MG/25 ML

Medications

50 mg/m2

Main

Yes

INTRAVENOUS SOLUTION

SODIUM CHLORIDE 0.9 %

Base

50 mL

Yes

Yes

INTRAVENOUS SOLUTION

DEXTROSE 5 % IN WATER (D5W)

Base

50 mL

No

Yes

INTRAVENOUS SOLUTION

### vinCRISTine (ONCOVIN) 1.4 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB

Dose: 1.4 mg/m2

Route: intravenous

once over 10 Minutes for 1 dose

Offset: 45 Minutes

Instructions:

Protect from light, VESICANT. Maximum Dose = 2 mg.

Rule-Based Template: RULE ONCBCN

VINCRIStINE 1.4 MG/M2

Conditions:

BSA < 1.43 m2

BSA >= 1.43 m2

Modifications:

Set dose to 1.4 mg/m2

Set dose to 2 mg

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

VINCRIStINE 1 MG/ML

Medications

1.4

mg/m2

Main

Yes

INTRAVENOUS SOLUTION

SODIUM CHLORIDE 0.9 %

Base

50 mL

Yes

Yes

INTRAVENOUS SOLUTION

## Outpatient Day 11

Perform every 1 day x1

### Appointment Requests

#### INFUSION APPOINTMENT REQUEST

Interval: --

Occurrences: --

### Labs

#### ☒ CBC WITH PLATELET AND DIFFERENTIAL

Interval: --

Occurrences: --

☒ **COMPREHENSIVE METABOLIC PANEL**

Interval: -- Occurrences: --

☒ **MAGNESIUM LEVEL**

Interval: -- Occurrences: --

☐ **LDH**

Interval: -- Occurrences: --

☐ **URIC ACID LEVEL**

Interval: -- Occurrences: --

Line Flush

**sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL Route: intravenous PRN  
Start: S

Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL Route: intravenous once @ 30 mL/hr for 1 dose  
Start: S  
Instructions:  
To keep vein open.

Nursing Orders

**ONC NURSING COMMUNICATION**

Interval: Once Occurrences: --  
Comments: Remind patient to take Dexamethasone on Days 1 through 4, and Days 11 through 14. Some doses may be given in hospital / clinic.

Chemotherapy

**dexamethasone (DECADRON) tablet 40 mg**

Dose: 40 mg Route: oral once for 1 dose  
Start: S

**vinCRISTine (ONCOVIN) 1.4 mg/m2 in sodium chloride 0.9 % 50 mL chemo IVPB**

Dose: 1.4 mg/m2 Route: intravenous once over 10 Minutes for 1 dose  
Start: S  
Instructions:  
Protect from light, VESICANT. Max dose = 2 mg.

Rule-Based Template: RULE ONCBCN  
VINCRIStINE 1.4 MG/M2

Conditions:  
BSA < 1.43 m2  
BSA >= 1.43 m2

Modifications:  
Set dose to 1.4 mg/m2  
Set dose to 2 mg

**Ingredients:**

**Name**

VINCRIStINE 1  
MG/ML  
INTRAVENOUS  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

**Type**

Medications

Base

**Dose**

1.4  
mg/m2

50 mL

**Selected**

Main  
Ingredient

Yes

**Adds Vol.**

Yes

Yes

Appointment Requests

**IR LUMBAR PUNCTURE**

Interval: -- Occurrences: --

Labs

**CSF CELL COUNT WITH DIFFERENTIAL**

Interval: -- Occurrences: --

Comments: Specimen to be drawn in Interventional Radiology area.

**PROTEIN, CSF**

Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

**GLUCOSE LEVEL, CSF**

Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

**FLOW CYTOMETRY EVALUATION**

Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

**CYTOLOGY (NON-GYNECOLOGICAL)**

**REQUEST**

Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

**Intrathecal Injections**

**cytarabine PF (CYSTOSAR) 100 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 100 mg Route: intrathecal once over 5 Minutes for 1 dose  
Start: S End: S

Instructions:  
HAZARDOUS - Handle with care.  
Preservative free for intrathecal use.

| Ingredients: | Name                                                      | Type        | Dose   | Selected        | Adds Vol. |
|--------------|-----------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | CYTARABINE (PF) 100 MG/5 ML (20 MG/ML) INJECTION SOLUTION | Medications | 100 mg | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION                | QS Base     |        | Yes             | Yes       |

**Discharge Nursing Orders**

**ONC NURSING COMMUNICATION 76**

Interval: -- Occurrences: --  
Comments: Discontinue IV.

**Discharge Nursing Orders**

☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL Route: intravenous PRN

☒ **HEParin, porcine (PF) injection 500 Units**

Dose: 500 Units Route: intra-catheter once PRN  
Start: S  
Instructions:  
Concentration: 100 units/mL. Heparin flush for Implanted Vascular Access Device maintenance.

**HyperCVAD Part 1B**

Repeat 1 time

Cycle length: 21 days

**Day 1**

Perform every 1 day x1

**Provider Communication**

**ONC PROVIDER COMMUNICATION 5**

|                             |                                                                                                                                |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Interval: Once<br>Comments: | Occurrences: --<br>Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%. |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------|

#### Labs

☒ **CBC WITH PLATELET AND DIFFERENTIAL**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

☒ **COMPREHENSIVE METABOLIC PANEL**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

☒ **MAGNESIUM LEVEL**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

☐ **LDH**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

☐ **URIC ACID LEVEL**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

#### Labs

**PH, URINALYSIS**

|                                    |                 |
|------------------------------------|-----------------|
| Interval: Conditional<br>Frequency | Occurrences: -- |
|------------------------------------|-----------------|

|           |                                                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------|
| Comments: | Draw prior to starting methotrexate and PRN until pH GREATER than 7. Then draw urine pH every 8 hours until MTX is LESS than 0.05 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------|

#### Nursing Orders

**ONC NURSING COMMUNICATION 64**

|                              |                 |
|------------------------------|-----------------|
| Interval: Until discontinued | Occurrences: -- |
|------------------------------|-----------------|

|           |                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Comments: | Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05. |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

#### Line Flush

**sodium chloride 0.9 % flush 20 mL**

|                         |                    |     |
|-------------------------|--------------------|-----|
| Dose: 20 mL<br>Start: S | Route: intravenous | PRN |
|-------------------------|--------------------|-----|

#### Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

|                                                                 |                    |                            |
|-----------------------------------------------------------------|--------------------|----------------------------|
| Dose: 250 mL<br>Start: S<br>Instructions:<br>To keep vein open. | Route: intravenous | once @ 30 mL/hr for 1 dose |
|-----------------------------------------------------------------|--------------------|----------------------------|

#### Pre-Medications

**ondansetron (ZOFTRAN) 16 mg, dexamethasone**

☒ **(DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB**

|          |                    |                                 |
|----------|--------------------|---------------------------------|
| Dose: -- | Route: intravenous | once over 15 Minutes for 1 dose |
|----------|--------------------|---------------------------------|

Start: S

**Ingredients:**

| Name                                                       | Type        | Dose  | Selected | Adds Vol. |
|------------------------------------------------------------|-------------|-------|----------|-----------|
| ONDANSETRON<br>HCL (PF) 4 MG/2<br>ML INJECTION<br>SOLUTION | Medications | 16 mg | Yes      | No        |
| DEXAMETHASONE<br>4 MG/ML<br>INJECTION<br>SOLUTION          | Medications | 12 mg | Yes      | No        |
| SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION        | Base        | 50 mL | Always   | Yes       |
| DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION  | Base        |       | No       | Yes       |

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg      Route: oral      once for 1 dose  
Start: S

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg      Route: oral      once for 1 dose  
Start: S

☐ **aprepitant (CINVANTI) 130 mg in dextrose  
(NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg      Route: intravenous      once over 30 Minutes for 1 dose  
Start: S      End: S

**Ingredients:**

| Name                                                          | Type        | Dose   | Selected           | Adds Vol. |
|---------------------------------------------------------------|-------------|--------|--------------------|-----------|
| APREPITANT 7.2<br>MG/ML<br>INTRAVENOUS<br>EMULSION            | Medications | 130 mg | Main<br>Ingredient | Yes       |
| DEXTROSE 5 % IN<br>WATER (D5W) IV<br>SOLP (EXCEL;<br>NON-PVC) | Base        | 130 mL | Yes                | Yes       |
| SODIUM<br>CHLORIDE 0.9 % IV<br>SOLP<br>(EXCEL;NON-PVC)        | Base        | 130 mL | No                 | Yes       |

Hydration

**dextrose 5% 1,000 mL with sodium bicarbonate  
150 mEq infusion**

Dose: 150 mL/hr      Route: intravenous      continuous  
Start: S

Instructions:

Hydrate patient for 4 hours PRIOR to checking  
urine pH.

Run until methotrexate level is LESS than 0.05  
micromol/L.

**Ingredients:**

| Name                                                      | Type | Dose     | Selected | Adds Vol. |
|-----------------------------------------------------------|------|----------|----------|-----------|
| DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base | 1,000 mL | Yes      | Yes       |

#### Provider Communication

##### **ONC PROVIDER COMMUNICATION 13**

Interval: Once

Occurrences: --

Comments:

Provider to confirm dose for patients over 60 years of age for Cytarabine.

#### Supportive Care

##### **prednisolONE acetate (PRED FORTE) 1 %**

##### **ophthalmic suspension 2 drop**

Dose: 2 drop

Route: Both Eyes

every 4 hours while awake

Start: S

#### Supportive Care

##### **allopurinol (ZYLOPRIM) tablet 300 mg**

Dose: 300 mg

Route: oral

2 times daily

Start: S

Instructions:

Dosing: reduce dose to 100 mg if Acute Renal Failure.

#### Chemotherapy

##### **methotrexate PF 200 mg/m2 in sodium chloride**

##### **0.9% 250 mL chemo IVPB**

Dose: 200 mg/m2

Route: intravenous

once over 120 Minutes for 1 dose

Offset: 30 Minutes

##### **Ingredients:**

##### **Name**

##### **Type**

##### **Dose**

##### **Selected**

##### **Adds Vol.**

METHOTREXATE  
SODIUM (PF) 25  
MG/ML INJECTION  
SOLUTION

Medications

200  
mg/m2

Main  
Ingredient

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

QS Base

250 mL

No

Yes

QS Base

250 mL

Yes

Yes

##### **methotrexate PF 800 mg/m2 in sodium chloride**

##### **0.9% 500 mL chemo IVPB**

Dose: 800 mg/m2

Route: intravenous

once over 22 Hours for 1 dose

Offset: 2.5 Hours

| Ingredients: | Name                                                 | Type        | Dose      | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|-----------|-----------------|-----------|
|              | METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION | Medications | 800 mg/m2 | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION     | QS Base     | 500 mL    | No              | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION           | QS Base     | 500 mL    | Yes             | Yes       |

#### Hematology & Oncology Hypersensitivity Reaction Standing Order

##### ONC NURSING COMMUNICATION 82

Interval: Until discontinued

Occurrences: --

Comments:

Grade 1 - MILD Symptoms (cutaneous and subcutaneous symptoms only – itching, flushing, periorbital edema, rash, or runny nose)

1. Stop the infusion.
2. Place the patient on continuous monitoring.
3. Obtain vital signs.
4. Administer Normal Saline at 50 mL per hour using a new bag and new intravenous tubing.
5. If greater than or equal to 30 minutes since the last dose of Diphenhydramine, administer Diphenhydramine 25 mg intravenous once.
6. If less than 30 minutes since the last dose of Diphenhydramine, administer Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
7. Notify the treating physician.
8. If no improvement after 15 minutes, advance level of care to Grade 2 (Moderate) or Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

##### ONC NURSING COMMUNICATION 83

Interval: Until discontinued

Occurrences: --

Comments:

Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea, vomiting, dizziness, diaphoresis, throat or chest tightness, abdominal or back pain)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
6. Administer Normal Saline at 150 mL per hour using a new bag and new intravenous tubing.
7. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous), Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
8. If no improvement after 15 minutes, advance level of care to Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

##### ONC NURSING COMMUNICATION 4

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 3 – SEVERE Symptoms (hypoxia, hypotension, or neurologic compromise – cyanosis or O2 saturation less than 92%, hypotension with systolic blood pressure less than 90 mmHg, confusion, collapse, loss of consciousness, or incontinence)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. If heart rate is less than 50 or greater than 120, or blood pressure is less than 90/50 mmHg, place patient in reclined or flattened position.
6. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
7. Administer Normal Saline at 1000 mL intravenous bolus using a new bag and new intravenous tubing.
8. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous) and Famotidine 20 mg intravenous once.
9. Administer Epinephrine (1:1000) 0.3 mg subcutaneous.
10. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**diphenhydramine (BENADRYL) injection 25 mg**

Dose: 25 mg                      Route: intravenous                      PRN  
Start: S

**fexofenadine (ALLEGRA) tablet 180 mg**

Dose: 180 mg                      Route: oral                      PRN  
Start: S

**famotidine (PEPCID) 20 mg/2 mL injection 20 mg**

Dose: 20 mg                      Route: intravenous                      PRN  
Start: S

**hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg**

Dose: 100 mg                      Route: intravenous                      PRN

**dexamethasone (DECADRON) injection 4 mg**

Dose: 4 mg                      Route: intravenous                      PRN  
Start: S

**epinephrine (ADRENALIN) 1 mg/10 mL ADULT injection syringe 0.3 mg**

Dose: 0.3 mg                      Route: subcutaneous                      PRN  
Start: S

**Discharge Nursing Orders**

☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL                      Route: intravenous                      PRN

☒ **HEparin, porcine (PF) injection 500 Units**

Dose: 500 Units                      Route: intra-catheter                      once PRN  
Start: S

Instructions:

Concentration: 100 units/mL. Heparin flush for Implanted Vascular Access Device maintenance.

**Day 2**

Labs

Perform every 1 day x1

☒ **METHOTREXATE LEVEL**

Interval: Once

Occurrences: --

☒ **PH, URINALYSIS**

Interval: Conditional

Occurrences: --

Frequency

Comments:

Draw prior to starting Methotrexate and PRN until pH GREATER than 7. Then draw urine pH every day until MTX is LESS than 0.05

**Nursing Orders**

**ONC NURSING COMMUNICATION 64**

Interval: Until discontinued

Occurrences: --

Comments:

Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

**Nursing Orders**

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

**Pre-Medications**

**ondansetron (ZOFTRAN) 16 mg, dexamethasone**

☒ **(DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

Yes

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

No

Yes

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg                      Route: oral                      once for 1 dose  
Start: S  
Instructions:  
Administer 30 minutes prior to chemotherapy.

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg                      Route: oral                      once for 1 dose  
Start: S  
Instructions:  
Administer 30 minutes prior to chemotherapy.

☒ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg                      Route: intravenous                      once over 30 Minutes for 1 dose  
Start: S                      End: S  
Instructions:  
Administer 30 minutes prior to chemotherapy.

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

Chemotherapy

**cytarabine PF (CYSTOSAR) 3,000 mg/m2 in dextrose 5% 500 mL chemo IVPB**

Dose: 3,000 mg/m2                      Route: intravenous                      every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

Instructions:  
Cytarabine dosing:  
if serum creatinine GREATER than 1.5 =  
Cytarabine 1 gm.  
If age GREATER than 60 years old =  
Cytarabine 1.5 gm.

| Ingredients: | Name                                                        | Type        | Dose        | Selected        | Adds Vol. |
|--------------|-------------------------------------------------------------|-------------|-------------|-----------------|-----------|
|              | CYTARABINE (PF) 2 GRAM/20 ML (100 MG/ML) INJECTION SOLUTION | Medications | 3,000 mg/m2 | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION                  | QS Base     | 500 mL      | No              | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION            | QS Base     | 500 mL      | Yes             | Yes       |

Chemotherapy

**leucovorin IV 50 mg**

Dose: 50 mg                      Route: intravenous                      every 6 hours over 30 Minutes

Instructions:  
Begin 12 hours AFTER COMPLETION of methotrexate infusion, and then Give every 6

hours.

Continue every 6 hours until Methotrexate levels are LESS than 0.05 micromol/L.

#### Intrathecal Injections

##### **methotrexate PF 12 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 12 mg      Route: intrathecal      once over 5 Minutes for 1 dose

Start: S      End: S

Instructions:

Preservative free for intrathecal use.

| Ingredients: | Name                                                 | Type        | Dose    | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|---------|-----------------|-----------|
|              | METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION | Medications | 12 mg   | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INJECTION SOLUTION             | QS Base     | 4.52 mL | Yes             | Yes       |

#### Day 3

Perform every 1 day x1

#### Labs

##### ☒ **METHOTREXATE LEVEL**

Interval: Once      Occurrences: --

##### ☒ **PH, URINALYSIS**

Interval: Conditional      Occurrences: --

Frequency

Comments: Draw prior to starting Methotrexate and PRN until pH GREATER than 7. Then draw urine pH every day until MTX is LESS than 0.05

#### Nursing Orders

##### **ONC NURSING COMMUNICATION 64**

Interval: Until      Occurrences: --

discontinued

Comments: Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

#### Nursing Orders

##### **sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL      Route: intravenous      once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

#### Pre-Medications

##### **ondansetron (ZOFTRAN) 16 mg, dexamethasone**

##### ☒ **(DECADRON) 12 mg in sodium chloride 0.9%**

**50 mL IVPB**

Dose: --      Route: intravenous      once over 15 Minutes for 1 dose

Start: S

**Ingredients:**

| Name                                              | Type        | Dose  | Selected | Adds Vol. |
|---------------------------------------------------|-------------|-------|----------|-----------|
| ONDANSETRON HCL (PF) 4 MG/2 ML INJECTION SOLUTION | Medications | 16 mg | Yes      | No        |
| DEXAMETHASONE 4 MG/ML INJECTION SOLUTION          | Medications | 12 mg | Yes      | No        |
| SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION        | Base        | 50 mL | Always   | Yes       |
| DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION  | Base        |       | No       | Yes       |

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg      Route: oral      once for 1 dose  
Start: S

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg      Route: oral      once for 1 dose  
Start: S

☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg      Route: intravenous      once over 30 Minutes for 1 dose  
Start: S      End: S

**Ingredients:**

| Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|------------------------------------------------------|-------------|--------|-----------------|-----------|
| APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
| DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
| SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

**Chemotherapy**

**cytarabine PF (CYSTOSAR) 3,000 mg/m2 in dextrose 5% 500 mL chemo IVPB**

Dose: 3,000 mg/m2      Route: intravenous      every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

**Instructions:**

Cytarabine dosing:  
if serum creatinine GREATER than 1.5 =  
Cytarabine 1 gm.  
If age GREATER than 60 years old =  
Cytarabine 1.5 gm.

**Ingredients:**

| Name                                                        | Type        | Dose        | Selected        | Adds Vol. |
|-------------------------------------------------------------|-------------|-------------|-----------------|-----------|
| CYTARABINE (PF) 2 GRAM/20 ML (100 MG/ML) INJECTION SOLUTION | Medications | 3,000 mg/m2 | Main Ingredient | Yes       |
| SODIUM CHLORIDE 0.9 %                                       | QS Base     | 500 mL      | No              | Yes       |

|                                                    |        |     |     |
|----------------------------------------------------|--------|-----|-----|
| INTRAVENOUS<br>SOLUTION<br>DEXTROSE 5 % IN QS Base | 500 mL | Yes | Yes |
| WATER (D5W)<br>INTRAVENOUS<br>SOLUTION             |        |     |     |

**Outpatient Day 11**

Perform every 1 day x1

## Appointment Requests

**IR LUMBAR PUNCTURE**

Interval: -- Occurrences: --

## Labs

**CSF CELL COUNT WITH DIFFERENTIAL**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.**PROTEIN, CSF**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.**GLUCOSE LEVEL, CSF**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.**FLOW CYTOMETRY EVALUATION**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.**CYTOLOGY (NON-GYNECOLOGICAL)****REQUEST**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

## Intrathecal Injections

**cytarabine PF (CYSTOSAR) 100 mg in sodium  
chloride 0.9% 5 mL chemo PF INTRATHECAL  
injection**

Dose: 100 mg Route: intrathecal once over 5 Minutes for 1 dose

Start: S End: S

## Instructions:

HAZARDOUS - Handle with care.

Preservative free for intrathecal use.

**Ingredients:**

| Name                                                               | Type        | Dose   | Selected           | Adds Vol. |
|--------------------------------------------------------------------|-------------|--------|--------------------|-----------|
| CYTARABINE (PF)<br>100 MG/5 ML (20<br>MG/ML) INJECTION<br>SOLUTION | Medications | 100 mg | Main<br>Ingredient | Yes       |
| SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION                | QS Base     |        | Yes                | Yes       |

**HyperCVAD Part 2A**

Repeat 1 time

Cycle length: 21 days

**Day 1**

Perform every 1 day x1

## Labs

☒ **CBC WITH PLATELET AND DIFFERENTIAL**

Interval: Once Occurrences: --

☒ **COMPREHENSIVE METABOLIC PANEL**

Interval: Once Occurrences: --

☒ **MAGNESIUM LEVEL**

Interval: Once

Occurrences: --

☐ **LDH**

Interval: Once

Occurrences: --

☐ **URIC ACID LEVEL**

Interval: Once

Occurrences: --

Provider Communication

**ONC PROVIDER COMMUNICATION 5**

Interval: Once

Occurrences: --

Comments:

Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.

Provider Communication

**ONC PROVIDER COMMUNICATION**

Interval: Once

Occurrences: --

Comments:

Verify Ejection Fraction prior to Cycle 1. Ejection Fraction: \*\*\*% on \*\*\* (date).

If patient has not had a recent MUGA or ECHO, order one via order entry. A baseline cardiac evaluation with a MUGA scan or an ECHO is recommended, especially in patients with risk factors for increased cardiac toxicity. Repeated MUGA or ECHO determinations of LVEF should be performed, particularly with higher, cumulative anthracycline doses.

Line Flush

**sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

Start: S

Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

Pre-Medications

☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: 16 mg

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

No

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN

Base

No

Yes

WATER (D5W)  
INTRAVENOUS  
SOLUTION

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg                      Route: oral                      once for 1 dose  
Start: S  
Instructions:  
Administer 30 minutes prior to chemotherapy.

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg                      Route: oral                      once for 1 dose  
Start: S  
Instructions:  
Administer 30 minutes prior to chemotherapy.

☒ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg                      Route: intravenous                      once over 30 Minutes for 1 dose  
Start: S                      End: S  
Instructions:  
Administer 30 minutes prior to chemotherapy.

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

Nursing Orders

**ONC NURSING COMMUNICATION 59**

Interval: Until discontinued                      Occurrences: --  
Comments:                      First mesna bag needs to start at the same time as cyclophosphamide initiation.

Hydration

☐ **(No Medication Selected)**

Dose: --                      Route: intravenous                      continuous  
Start: S

| Ingredients: | Name                                             | Type | Dose     | Selected | Adds Vol. |
|--------------|--------------------------------------------------|------|----------|----------|-----------|
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | Base | 1,000 mL | No       | Yes       |

## Chemotherapy

### ☒ dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg      Route: oral      once for 1 dose  
Start: S

### ☒ cyclophosphamide (CYTOXAN) 300 mg/m<sup>2</sup> in sodium chloride 0.9 % 250 mL chemo IVPB

Dose: 300 mg/m<sup>2</sup>      Route: intravenous      every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

| Ingredients: | Name                                             | Type        | Dose                  | Selected        | Adds Vol. |
|--------------|--------------------------------------------------|-------------|-----------------------|-----------------|-----------|
|              | CYCLOPHOSPHAMIDE 1 GRAM INTRAVENOUS SOLUTION     | Medications | 300 mg/m <sup>2</sup> | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION       | QS Base     | 250 mL                | Yes             | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | QS Base     | 250 mL                | No              | Yes       |

### ☒ mesna (MESNEX) 600 mg/m<sup>2</sup> in sodium chloride 0.9 % 500 mL chemo IVPB

Dose: 600 mg/m<sup>2</sup>      Route: intravenous      once over 24 Hours for 1 dose  
Offset: 30 Minutes

| Ingredients: | Name                                             | Type        | Dose                  | Selected        | Adds Vol. |
|--------------|--------------------------------------------------|-------------|-----------------------|-----------------|-----------|
|              | MESNA 100 MG/ML INTRAVENOUS SOLUTION             | Medications | 600 mg/m <sup>2</sup> | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION       | QS Base     | 500 mL                | Yes             | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | QS Base     | 500 mL                | No              | Yes       |

## Supportive Care

### allopurinol (ZYLOPRIM) tablet 300 mg

Dose: 300 mg      Route: oral      2 times daily  
Start: S  
Instructions:  
Dosing: reduce dose to 100 mg if Acute Renal Failure.

**ONC NURSING COMMUNICATION 82**

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 1 - MILD Symptoms (cutaneous and subcutaneous symptoms only – itching, flushing, periorbital edema, rash, or runny nose)

1. Stop the infusion.
2. Place the patient on continuous monitoring.
3. Obtain vital signs.
4. Administer Normal Saline at 50 mL per hour using a new bag and new intravenous tubing.
5. If greater than or equal to 30 minutes since the last dose of Diphenhydramine, administer Diphenhydramine 25 mg intravenous once.
6. If less than 30 minutes since the last dose of Diphenhydramine, administer Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
7. Notify the treating physician.
8. If no improvement after 15 minutes, advance level of care to Grade 2 (Moderate) or Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**ONC NURSING COMMUNICATION 83**

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea, vomiting, dizziness, diaphoresis, throat or chest tightness, abdominal or back pain)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
6. Administer Normal Saline at 150 mL per hour using a new bag and new intravenous tubing.
7. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous), Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
8. If no improvement after 15 minutes, advance level of care to Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**ONC NURSING COMMUNICATION 4**

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 3 – SEVERE Symptoms (hypoxia, hypotension, or neurologic compromise – cyanosis or O2 saturation less than 92%, hypotension with systolic blood pressure less than 90 mmHg, confusion, collapse, loss of consciousness, or incontinence)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. If heart rate is less than 50 or greater than 120, or blood pressure is less than 90/50 mmHg, place patient in reclined or flattened position.
6. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.

7. Administer Normal Saline at 1000 mL intravenous bolus using a new bag and new intravenous tubing.
8. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous) and Famotidine 20 mg intravenous once.
9. Administer Epinephrine (1:1000) 0.3 mg subcutaneous.
10. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**diphenhydramine (BENADRYL) injection 25 mg**

Dose: 25 mg                      Route: intravenous                      PRN  
Start: S

**fexofenadine (ALLEGRA) tablet 180 mg**

Dose: 180 mg                      Route: oral                      PRN  
Start: S

**famotidine (PEPCID) 20 mg/2 mL injection 20 mg**

Dose: 20 mg                      Route: intravenous                      PRN  
Start: S

**hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg**

Dose: 100 mg                      Route: intravenous                      PRN

**dexamethasone (DECADRON) injection 4 mg**

Dose: 4 mg                      Route: intravenous                      PRN  
Start: S

**epinephrine (ADRENALIN) 1 mg/10 mL ADULT injection syringe 0.3 mg**

Dose: 0.3 mg                      Route: subcutaneous                      PRN  
Start: S

**Discharge Nursing Orders**

☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL                      Route: intravenous                      PRN

☒ **HEparin, porcine (PF) injection 500 Units**

Dose: 500 Units                      Route: intra-catheter                      once PRN  
Start: S

**Instructions:**

Concentration: 100 units/mL. Heparin flush for Implanted Vascular Access Device maintenance.

**Day 2**

Perform every 1 day x1

**Nursing Orders**

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL                      Route: intravenous                      once @ 30 mL/hr for 1 dose  
Start: S

**Instructions:**

To keep vein open.

**Pre-Medications**

☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --                      Route: intravenous                      once over 15 Minutes for 1 dose  
Start: S

**Ingredients:**

**Name**

ONDANSETRON  
HCL (PF) 4 MG/2

**Type**

Medications

**Dose**

16 mg

**Selected**

Yes

**Adds Vol.**

No

|                                                                                                                                                                                                   |             |        |     |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-----|----|
| ML INJECTION<br>SOLUTION<br>DEXAMETHASONE<br>4 MG/ML<br>INJECTION<br>SOLUTION<br>SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION<br>DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Medications | 12 mg  | No  | No |
| Base                                                                                                                                                                                              | 50 mL       | Always | Yes |    |
| Base                                                                                                                                                                                              |             | No     | Yes |    |

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg      Route: oral      once for 1 dose  
Start: S

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg      Route: oral      once for 1 dose  
Start: S

☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg      Route: intravenous      once over 30 Minutes for 1 dose  
Start: S      End: S

| Ingredients: | Name                                                                                                             | Type        | Dose   | Selected           | Adds Vol. |
|--------------|------------------------------------------------------------------------------------------------------------------|-------------|--------|--------------------|-----------|
|              | APREPITANT 7.2 MG/ML<br>INTRAVENOUS<br>EMULSION<br>DEXTROSE 5 % IN<br>WATER (D5W) IV<br>SOLP (EXCEL;<br>NON-PVC) | Medications | 130 mg | Main<br>Ingredient | Yes       |
|              | Base                                                                                                             | 130 mL      | Yes    | Yes                |           |
|              | Base                                                                                                             | 130 mL      | No     | Yes                |           |

Hydration

☐ **(No Medication Selected)**

Dose: --      Route: intravenous      continuous  
Start: S

| Ingredients: | Name                                                      | Type | Dose     | Selected | Adds Vol. |
|--------------|-----------------------------------------------------------|------|----------|----------|-----------|
|              | DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base | 1,000 mL | No       | Yes       |

## Chemotherapy

### ☒ **dexamethasone (DECADRON) tablet 40 mg**

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

### ☒ **cyclophosphamide (CYTOXAN) 300 mg/m2 in sodium chloride 0.9 % 250 mL chemo IVPB**

Dose: 300 mg/m2

Route: intravenous

every 12 hours over 120 Minutes for 2 doses

Offset: 30 Minutes

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

CYCLOPHOSPHAM

Medications

300

Main

Yes

IDE 1 GRAM

mg/m2

Ingredient

INTRAVENOUS  
SOLUTION

SODIUM  
CHLORIDE 0.9 %

QS Base

250 mL

Yes

Yes

INTRAVENOUS  
SOLUTION

DEXTROSE 5 % IN  
WATER (D5W)

QS Base

250 mL

No

Yes

INTRAVENOUS  
SOLUTION

### ☒ **mesna (MESNEX) 600 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB**

Dose: 600 mg/m2

Route: intravenous

once over 24 Hours for 1 dose

Offset: 30 Minutes

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

MESNA 100 MG/ML  
INTRAVENOUS  
SOLUTION

Medications

600

Main

Yes

SODIUM

QS Base

500 mL

Yes

Yes

CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

DEXTROSE 5 % IN  
WATER (D5W)

QS Base

500 mL

No

Yes

INTRAVENOUS  
SOLUTION

## Intrathecal Injections

### **methotrexate PF 12 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 12 mg

Route: intrathecal

once over 5 Minutes for 1 dose

Start: S

End: S

Instructions:

Preservative free for intrathecal use.

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

METHOTREXATE

Medications

12 mg

Main

Yes

SODIUM (PF) 25

Ingredient

MG/ML INJECTION

|                |         |         |     |     |  |
|----------------|---------|---------|-----|-----|--|
| SOLUTION       |         |         |     |     |  |
| SODIUM         | QS Base | 4.52 mL | Yes | Yes |  |
| CHLORIDE 0.9 % |         |         |     |     |  |
| INJECTION      |         |         |     |     |  |
| SOLUTION       |         |         |     |     |  |

### Day 3

Perform every 1 day x1

#### Nursing Orders

##### **sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

#### Pre-Medications

##### ☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

No

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION  
DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

Base

No

Yes

##### ☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

##### ☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

##### ☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

APREPITANT 7.2  
MG/ML  
INTRAVENOUS  
EMULSION

Medications

130 mg

Main

Yes

Ingredient

DEXTROSE 5 % IN  
WATER (D5W) IV  
SOLP (EXCEL;  
NON-PVC)  
SODIUM  
CHLORIDE 0.9 % IV  
SOLP  
(EXCEL;NON-PVC)

Base

130 mL

Yes

Yes

Base

130 mL

No

Yes

Hydration

☐ (No Medication Selected)

Dose: --

Route: intravenous

continuous

Start: S

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

DEXTROSE 5 % IN

Base

1,000 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

Chemotherapy

☒ **dexamethasone (DECADRON) tablet 40 mg**

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

☒ **cyclophosphamide (CYTOXAN) 300 mg/m2 in sodium chloride 0.9 % 250 mL chemo IVPB**

Dose: 300 mg/m2

Route: intravenous

every 12 hours over 120 Minutes for 2 doses

Offset: 30 Minutes

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

CYCLOPHOSPHAM Medications

300

Main

Yes

IDE 1 GRAM

mg/m2

Ingredient

INTRAVENOUS

SOLUTION

SODIUM

QS Base

250 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

DEXTROSE 5 % IN

QS Base

250 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

☒ **mesna (MESNEX) 600 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB**

Dose: 600 mg/m2

Route: intravenous

once over 24 Hours for 1 dose

Offset: 30 Minutes

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

MESNA 100 MG/ML Medications

600

Main

Yes

INTRAVENOUS

mg/m2

Ingredient

|                                                                 |         |        |     |     |
|-----------------------------------------------------------------|---------|--------|-----|-----|
| SOLUTION<br>SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION | QS Base | 500 mL | Yes | Yes |
| DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION       | QS Base | 500 mL | No  | Yes |

#### Day 4

Perform every 1 day x1

#### Nursing Orders

##### **sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

#### Pre-Medications

##### ☒ **ondansetron (ZOFRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

No

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

No

Yes

##### ☐ **ondansetron (ZOFRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

##### ☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

##### ☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

APREPITANT 7.2  
MG/ML  
INTRAVENOUS  
EMULSION

Medications

130 mg

Main  
Ingredient

Yes

DEXTROSE 5 % IN  
WATER (D5W) IV  
SOLP (EXCEL;  
NON-PVC)

Base

130 mL

Yes

Yes

SODIUM

Base

130 mL

No

Yes

CHLORIDE 0.9 % IV  
SOLP  
(EXCEL;NON-PVC)

Hydration

☐ (No Medication Selected)

Dose: --  
Start: S

Route: intravenous      continuous

| Ingredients: | Name                                                      | Type | Dose     | Selected | Adds Vol. |
|--------------|-----------------------------------------------------------|------|----------|----------|-----------|
|              | DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base | 1,000 mL | No       | Yes       |

Chemotherapy

**dexamethasone (DECADRON) tablet 40 mg**  
Dose: 40 mg      Route: oral      once for 1 dose  
Start: S

**DOXOrubicin (ADRIAmycin) 50 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB**  
Dose: 50 mg/m2      Route: intravenous      once over 15 Minutes for 1 dose  
Offset: 30 Minutes

Instructions:  
Protect from light; VESICANT

| Ingredients: | Name                                                      | Type        | Dose     | Selected           | Adds Vol. |
|--------------|-----------------------------------------------------------|-------------|----------|--------------------|-----------|
|              | DOXORUBICIN 50<br>MG/25 ML<br>INTRAVENOUS<br>SOLUTION     | Medications | 50 mg/m2 | Main<br>Ingredient | Yes       |
|              | SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION       | Base        | 50 mL    | Yes                | Yes       |
|              | DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base        | 50 mL    | No                 | Yes       |

**vinCRIStine (ONCOVIN) 1.4 ma/m2 in sodium**

**chloride 0.9% 50 mL chemo IVPB**

Dose: 1.4 mg/m2

Route: intravenous

once over 10 Minutes for 1 dose

Offset: 45 Minutes

## Instructions:

Protect from light, VESICANT. Maximum  
Dose = 2 mg.Rule-Based Template: RULE ONCBCN  
VINCRIStINE 1.4 MG/M2

## Conditions:

BSA &lt; 1.43 m2

BSA &gt;= 1.43 m2

## Modifications:

Set dose to 1.4 mg/m2

Set dose to 2 mg

**Ingredients:****Name**VINCRIStINE 1  
MG/ML  
INTRAVENOUS  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION**Type**

Medications

**Dose**1.4  
mg/m2**Selected**

Main

Ingredient

**Adds Vol.**

Yes

Base

50 mL

Yes

Yes

**Outpatient Day 11**

Perform every 1 day x1

## Appointment Requests

**INFUSION APPOINTMENT REQUEST**

Interval: --

Occurrences: --

## Labs

☒ **CBC WITH PLATELET AND DIFFERENTIAL**

Interval: --

Occurrences: --

☒ **COMPREHENSIVE METABOLIC PANEL**

Interval: --

Occurrences: --

☒ **MAGNESIUM LEVEL**

Interval: --

Occurrences: --

☐ **LDH**

Interval: --

Occurrences: --

☐ **URIC ACID LEVEL**

Interval: --

Occurrences: --

## Line Flush

**sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

Start: S

## Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

## Instructions:

To keep vein open.

## Nursing Orders

**ONC NURSING COMMUNICATION**

Interval: Once

Occurrences: --

## Comments:

Remind patient to take Dexamethasone on Days 1 through 4, and Days  
11 through 14. Some doses may be given in hospital / clinic.

## Chemotherapy

**dexamethasone (DECADRON) tablet 40 mg**

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

**vinCRiStine (ONCOVIN) 1.4 mg/m2 in sodium chloride 0.9 % 50 mL chemo IVPB**

Dose: 1.4 mg/m2      Route: intravenous      once over 10 Minutes for 1 dose

Start: S

Instructions:

Protect from light, VESICANT.    Max dose = 2 mg.

Rule-Based Template: RULE ONCBCN

VINCRIStINE 1.4 MG/M2

Conditions:

BSA < 1.43 m2

BSA >= 1.43 m2

Modifications:

Set dose to 1.4 mg/m2

Set dose to 2 mg

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

VINCRIStINE 1  
MG/ML  
INTRAVENOUS  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Medications

1.4  
mg/m2

Main  
Ingredient

Base

50 mL

Yes

Yes

**Appointment Requests**

**IR LUMBAR PUNCTURE**

Interval: --

Occurrences: --

**Labs**

**CSF CELL COUNT WITH DIFFERENTIAL**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**PROTEIN, CSF**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**GLUCOSE LEVEL, CSF**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**FLOW CYTOMETRY EVALUATION**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**CYTOLOGY (NON-GYNECOLOGICAL)**

**REQUEST**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**Intrathecal Injections**

**cytarabine PF (CYSTOSAR) 100 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 100 mg

Route: intrathecal

once over 5 Minutes for 1 dose

Start: S

End: S

Instructions:

HAZARDOUS - Handle with care.

Preservative free for intrathecal use.

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

CYTARABINE (PF)  
100 MG/5 ML (20

Medications

100 mg

Main  
Ingredient

Yes

MG/ML) INJECTION  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

QS Base

Yes

Yes

Discharge Nursing Orders

**ONC NURSING COMMUNICATION 76**

Interval: --

Occurrences: --

Comments:

Discontinue IV.

Discharge Nursing Orders

☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

☒ **HEParin, porcine (PF) injection 500 Units**

Dose: 500 Units

Route: intra-catheter

once PRN

Start: S

Instructions:

Concentration: 100 units/mL. Heparin flush for  
Implanted Vascular Access Device  
maintenance.

**HyperCVAD Part 2B**

Repeat 1 time

Cycle length: 21 days

**Day 1**

Perform every 1 day x1

Provider Communication

**ONC PROVIDER COMMUNICATION 5**

Interval: Once

Occurrences: --

Comments:

Use baseline weight to calculate dose. Adjust dose for weight  
gains/losses of greater than or equal to 10%.

Labs

☒ **CBC WITH PLATELET AND DIFFERENTIAL**

Interval: Once

Occurrences: --

☒ **COMPREHENSIVE METABOLIC PANEL**

Interval: Once

Occurrences: --

☒ **MAGNESIUM LEVEL**

Interval: Once

Occurrences: --

☐ **LDH**

Interval: Once

Occurrences: --

☐ **URIC ACID LEVEL**

Interval: Once

Occurrences: --

Labs

**PH, URINALYSIS**

Interval: Conditional

Occurrences: --

Frequency

Comments:

Draw prior to starting methotrexate and PRN until pH GREATER than 7.  
Then draw urine pH every 8 hours until MTX is LESS than 0.05

Nursing Orders

**ONC NURSING COMMUNICATION 64**

Interval: Until  
discontinued

Occurrences: --

**Comments:**

Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

**Line Flush****sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

Start: S

**Nursing Orders****sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

**Pre-Medications****ondansetron (ZOFTRAN) 16 mg, dexamethasone**

- ☒ **(DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

Yes

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

No

Yes

- ☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

- ☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

- ☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**

APREPITANT 7.2

Medications

130 mg

Main

Yes

| MG/ML                                  |      |        | Ingredient |     |
|----------------------------------------|------|--------|------------|-----|
| INTRAVENOUS EMULSION                   |      |        |            |     |
| DEXTROSE 5 % IN                        | Base | 130 mL | Yes        | Yes |
| WATER (D5W) IV SOLP (EXCEL; NON-PVC)   |      |        |            |     |
| SODIUM                                 | Base | 130 mL | No         | Yes |
| CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC) |      |        |            |     |

Hydration

**dextrose 5% 1,000 mL with sodium bicarbonate 150 mEq infusion**

Dose: 150 mL/hr      Route: intravenous      continuous

Start: S

Instructions:

Hydrate patient for 4 hours PRIOR to checking urine pH.

Run until methotrexate level is LESS than 0.05 micromol/L.

| Ingredients: | Name                 | Type | Dose     | Selected | Adds Vol. |
|--------------|----------------------|------|----------|----------|-----------|
|              | DEXTROSE 5 % IN      | Base | 1,000 mL | Yes      | Yes       |
|              | WATER (D5W)          |      |          |          |           |
|              | INTRAVENOUS SOLUTION |      |          |          |           |

Provider Communication

**ONC PROVIDER COMMUNICATION 13**

Interval: Once

Occurrences: --

Comments:

Provider to confirm dose for patients over 60 years of age for Cytarabine.

Supportive Care

**prednisoLONE acetate (PRED FORTE) 1 % ophthalmic suspension 2 drop**

Dose: 2 drop

Route: Both Eyes

every 4 hours while awake

Start: S

## Supportive Care

### **allopurinol (ZYLOPRIM) tablet 300 mg**

Dose: 300 mg

Route: oral

2 times daily

Start: S

Instructions:

Dosing: reduce dose to 100 mg if Acute Renal Failure.

## Chemotherapy

### **methotrexate PF 200 mg/m2 in sodium chloride**

#### **0.9% 250 mL chemo IVPB**

Dose: 200 mg/m2

Route: intravenous

once over 120 Minutes for 1 dose

Offset: 30 Minutes

#### **Ingredients:**

#### **Name**

#### **Type**

#### **Dose**

#### **Selected**

#### **Adds Vol.**

METHOTREXATE  
SODIUM (PF) 25  
MG/ML INJECTION  
SOLUTION

Medications

200

mg/m2

Main

Ingredient

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

QS Base

250 mL

No

Yes

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

QS Base

250 mL

Yes

Yes

### **methotrexate PF 800 mg/m2 in sodium chloride**

#### **0.9% 500 mL chemo IVPB**

Dose: 800 mg/m2

Route: intravenous

once over 22 Hours for 1 dose

Offset: 2.5 Hours

#### **Ingredients:**

#### **Name**

#### **Type**

#### **Dose**

#### **Selected**

#### **Adds Vol.**

METHOTREXATE  
SODIUM (PF) 25  
MG/ML INJECTION  
SOLUTION

Medications

800

mg/m2

Main

Ingredient

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

QS Base

500 mL

No

Yes

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

QS Base

500 mL

Yes

Yes

## Hematology & Oncology Hypersensitivity Reaction Standing Order

### **ONC NURSING COMMUNICATION 82**

Interval: Until

Occurrences: --

discontinued

Comments:

Grade 1 - MILD Symptoms (cutaneous and subcutaneous symptoms only – itching, flushing, periorbital edema, rash, or runny nose)

1. Stop the infusion.

2. Place the patient on continuous monitoring.

3. Obtain vital signs.

4. Administer Normal Saline at 50 mL per hour using a new bag and new intravenous tubing.

5. If greater than or equal to 30 minutes since the last dose of Diphenhydramine, administer Diphenhydramine 25 mg intravenous once.

6. If less than 30 minutes since the last dose of Diphenhydramine, administer Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.

7. Notify the treating physician.

8. If no improvement after 15 minutes, advance level of care to Grade 2 (Moderate) or Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### ONC NURSING COMMUNICATION 83

Interval: Until discontinued

Occurrences: --

Comments:

- Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea, vomiting, dizziness, diaphoresis, throat or chest tightness, abdominal or back pain)
1. Stop the infusion.
  2. Notify the CERT team and treating physician immediately.
  3. Place the patient on continuous monitoring.
  4. Obtain vital signs.
  5. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
  6. Administer Normal Saline at 150 mL per hour using a new bag and new intravenous tubing.
  7. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous), Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
  8. If no improvement after 15 minutes, advance level of care to Grade 3 (Severe).
  9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### ONC NURSING COMMUNICATION 4

Interval: Until discontinued

Occurrences: --

Comments:

- Grade 3 – SEVERE Symptoms (hypoxia, hypotension, or neurologic compromise – cyanosis or O2 saturation less than 92%, hypotension with systolic blood pressure less than 90 mmHg, confusion, collapse, loss of consciousness, or incontinence)
1. Stop the infusion.
  2. Notify the CERT team and treating physician immediately.
  3. Place the patient on continuous monitoring.
  4. Obtain vital signs.
  5. If heart rate is less than 50 or greater than 120, or blood pressure is less than 90/50 mmHg, place patient in reclined or flattened position.
  6. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
  7. Administer Normal Saline at 1000 mL intravenous bolus using a new bag and new intravenous tubing.
  8. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous) and Famotidine 20 mg intravenous once.
  9. Administer Epinephrine (1:1000) 0.3 mg subcutaneous.
  10. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### diphenhydramine (BENADRYL) injection 25 mg

Dose: 25 mg  
Start: S

Route: intravenous

PRN

#### fexofenadine (ALLEGRA) tablet 180 mg

Dose: 180 mg  
Start: S

Route: oral

PRN

**famotidine (PEPCID) 20 mg/2 mL injection 20 mg**

Dose: 20 mg                      Route: intravenous                      PRN  
Start: S

**hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg**

Dose: 100 mg                      Route: intravenous                      PRN

**dexamethasone (DECADRON) injection 4 mg**

Dose: 4 mg                      Route: intravenous                      PRN  
Start: S

**epINEPHrine (ADRENALIN) 1 mg/10 mL ADULT injection syringe 0.3 mg**

Dose: 0.3 mg                      Route: subcutaneous                      PRN  
Start: S

**Discharge Nursing Orders**☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL                      Route: intravenous                      PRN

☒ **HEParin, porcine (PF) injection 500 Units**

Dose: 500 Units                      Route: intra-catheter                      once PRN  
Start: S

**Instructions:**

Concentration: 100 units/mL. Heparin flush for  
Implanted Vascular Access Device  
maintenance.

**Day 2****Perform every 1 day x1****Labs**☒ **METHOTREXATE LEVEL**

Interval: Once                      Occurrences: --

☒ **PH, URINALYSIS**

Interval: Conditional                      Occurrences: --  
Frequency

Comments:                      Draw prior to starting Methotrexate and PRN until pH GREATER than 7.  
Then draw urine pH every day until MTX is LESS than 0.05

**Nursing Orders****ONC NURSING COMMUNICATION 64**

Interval: Until                      Occurrences: --  
discontinued

**Comments:**

Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER  
COMPLETION of Methotrexate infusion and send STAT. Continue to  
obtain Methotrexate level every 24 hours until methotrexate level is less  
than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8  
hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate  
and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium  
bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED  
(brown bag/paper towel) going to the lab.

**Nursing Orders****sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL                      Route: intravenous                      once @ 30 mL/hr for 1 dose

Start: S  
Instructions:  
To keep vein open.

#### Pre-Medications

- ☒ **ondansetron (ZOFTRAN) 16 mg, dexamethasone (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: -- Route: intravenous once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

| Ingredients: | Name                                              | Type        | Dose  | Selected | Adds Vol. |
|--------------|---------------------------------------------------|-------------|-------|----------|-----------|
|              | ONDANSETRON HCL (PF) 4 MG/2 ML INJECTION SOLUTION | Medications | 16 mg | Yes      | No        |
|              | DEXAMETHASONE 4 MG/ML INJECTION SOLUTION          | Medications | 12 mg | Yes      | No        |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION        | Base        | 50 mL | Always   | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION  | Base        |       | No       | Yes       |

- ☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg Route: oral once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

- ☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg Route: oral once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

- ☒ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg Route: intravenous once over 30 Minutes for 1 dose

Start: S End: S

Instructions:

Administer 30 minutes prior to chemotherapy.

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

#### Chemotherapy

**cytarabine PF (CYSTOSAR) 3,000 mg/m2 in dextrose 5% 500 mL chemo IVPB**

Dose: 3,000 mg/m2      Route: intravenous      every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

**Instructions:**

Cytarabine dosing:  
if serum creatinine GREATER than 1.5 =  
Cytarabine 1 gm.  
If age GREATER than 60 years old =  
Cytarabine 1.5 gm.

| Ingredients: | Name                                                                 | Type        | Dose           | Selected           | Adds Vol. |
|--------------|----------------------------------------------------------------------|-------------|----------------|--------------------|-----------|
|              | CYTARABINE (PF)<br>2 GRAM/20 ML (100<br>MG/ML) INJECTION<br>SOLUTION | Medications | 3,000<br>mg/m2 | Main<br>Ingredient | Yes       |
|              | SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION                  | QS Base     | 500 mL         | No                 | Yes       |
|              | DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION            | QS Base     | 500 mL         | Yes                | Yes       |

**Chemotherapy****leucovorin IV 50 mg**

Dose: 50 mg      Route: intravenous      every 6 hours over 30 Minutes

**Instructions:**

Begin 12 hours AFTER COMPLETION of  
methotrexate infusion, and then Give every 6  
hours.

Continue every 6 hours until Methotrexate  
levels are LESS than 0.05 micromol/L.

**Intrathecal Injections****methotrexate PF 12 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 12 mg      Route: intrathecal      once over 5 Minutes for 1 dose  
Start: S      End: S

**Instructions:**

Preservative free for intrathecal use.

| Ingredients: | Name                                                          | Type        | Dose    | Selected           | Adds Vol. |
|--------------|---------------------------------------------------------------|-------------|---------|--------------------|-----------|
|              | METHOTREXATE<br>SODIUM (PF) 25<br>MG/ML INJECTION<br>SOLUTION | Medications | 12 mg   | Main<br>Ingredient | Yes       |
|              | SODIUM<br>CHLORIDE 0.9 %<br>INJECTION<br>SOLUTION             | QS Base     | 4.52 mL | Yes                | Yes       |

**Day 3****Perform every 1 day x1****Labs**☒ **METHOTREXATE LEVEL**

Interval: Once      Occurrences: --

☒ **PH, URINALYSIS**

Interval: Conditional      Occurrences: --

Frequency

Comments:      Draw prior to starting Methotrexate and PRN until pH GREATER than 7.

Then draw urine pH every day until MTX is LESS than 0.05

#### Nursing Orders

##### ONC NURSING COMMUNICATION 64

Interval: Until discontinued

Occurrences: --

Comments:

Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

#### Nursing Orders

##### sodium chloride 0.9 % infusion 250 mL

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

#### Pre-Medications

##### ondansetron (ZOFTRAN) 16 mg, dexamethasone

- ☒ (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

Yes

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION  
DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

Base

No

Yes

- ☐ ondansetron (ZOFTRAN) tablet 16 mg

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

- ☐ dexamethasone (DECADRON) tablet 12 mg

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

- ☐ aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

#### Chemotherapy

##### **cytarabine PF (CYSTOSAR) 3,000 mg/m2 in dextrose 5% 500 mL chemo IVPB**

Dose: 3,000 mg/m2      Route: intravenous      every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

##### Instructions:

Cytarabine dosing:  
if serum creatinine GREATER than 1.5 =  
Cytarabine 1 gm.  
If age GREATER than 60 years old =  
Cytarabine 1.5 gm.

| Ingredients: | Name                                                        | Type        | Dose        | Selected        | Adds Vol. |
|--------------|-------------------------------------------------------------|-------------|-------------|-----------------|-----------|
|              | CYTARABINE (PF) 2 GRAM/20 ML (100 MG/ML) INJECTION SOLUTION | Medications | 3,000 mg/m2 | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION                  | QS Base     | 500 mL      | No              | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION            | QS Base     | 500 mL      | Yes             | Yes       |

#### Outpatient Day 11

Perform every 1 day x1

##### Appointment Requests

##### **IR LUMBAR PUNCTURE**

Interval: --      Occurrences: --

##### Labs

##### **CSF CELL COUNT WITH DIFFERENTIAL**

Interval: --      Occurrences: --  
Comments:      Specimen to be drawn in Interventional Radiology area.

##### **PROTEIN, CSF**

Interval: --      Occurrences: --  
Comments:      Specimen to be drawn in Interventional Radiology area.

##### **GLUCOSE LEVEL, CSF**

Interval: --      Occurrences: --  
Comments:      Specimen to be drawn in Interventional Radiology area.

##### **FLOW CYTOMETRY EVALUATION**

Interval: --      Occurrences: --  
Comments:      Specimen to be drawn in Interventional Radiology area.

##### **CYTOLOGY (NON-GYNECOLOGICAL)**

**REQUEST**Interval: --  
Comments:Occurrences: --  
Specimen to be drawn in Interventional Radiology area.**Intrathecal Injections****cytarabine PF (CYSTOSAR) 100 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 100 mg      Route: intrathecal      once over 5 Minutes for 1 dose

Start: S      End: S

**Instructions:**

HAZARDOUS - Handle with care.

Preservative free for intrathecal use.

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**CYTARABINE (PF)  
100 MG/5 ML (20  
MG/ML) INJECTION  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Medications

100 mg

Main  
Ingredient

Yes

QS Base

Yes

Yes

**HyperCVAD Part 3A**

Repeat 1 time

Cycle length: 21 days

**Day 1**

Perform every 1 day x1

**Labs**☒ **CBC WITH PLATELET AND DIFFERENTIAL**

Interval: Once

Occurrences: --

☒ **COMPREHENSIVE METABOLIC PANEL**

Interval: Once

Occurrences: --

☒ **MAGNESIUM LEVEL**

Interval: Once

Occurrences: --

☐ **LDH**

Interval: Once

Occurrences: --

☐ **URIC ACID LEVEL**

Interval: Once

Occurrences: --

**Provider Communication****ONC PROVIDER COMMUNICATION 5**

Interval: Once

Occurrences: --

**Comments:**

Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.

**Provider Communication****ONC PROVIDER COMMUNICATION**

Interval: Once

Occurrences: --

**Comments:**

Verify Ejection Fraction prior to Cycle 1. Ejection Fraction: \*\*\*% on \*\*\* (date).

If patient has not had a recent MUGA or ECHO, order one via order entry. A baseline cardiac evaluation with a MUGA scan or an ECHO is recommended, especially in patients with risk factors for increased cardiac toxicity. Repeated MUGA or ECHO determinations of LVEF should be performed, particularly with higher, cumulative anthracycline doses.

## Line Flush

**sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

Start: S

## Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

## Pre-Medications

**ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: 16 mg

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

No

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION  
DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

Base

No

Yes

**ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

**dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

**aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

Instructions:

Administer 30 minutes prior to chemotherapy.

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**APREPITANT 7.2  
MG/ML  
INTRAVENOUS  
EMULSION

Medications

130 mg

Main

Yes

DEXTROSE 5 % IN  
WATER (D5W) IV  
SOLP (EXCEL:

Base

130 mL

Yes

Yes

|                   |      |        |    |     |  |
|-------------------|------|--------|----|-----|--|
| NON-PVC)          |      |        |    |     |  |
| SODIUM            | Base | 130 mL | No | Yes |  |
| CHLORIDE 0.9 % IV |      |        |    |     |  |
| SOLP              |      |        |    |     |  |
| (EXCEL;NON-PVC)   |      |        |    |     |  |

#### Nursing Orders

##### ONC NURSING COMMUNICATION 59

Interval: Until discontinued

Occurrences: --

Comments:

First mesna bag needs to start at the same time as cyclophosphamide initiation.

#### Hydration

☐ (No Medication Selected)

Dose: --

Route: intravenous

continuous

Start: S

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

DEXTROSE 5 % IN

Base

1,000 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

#### Chemotherapy

☒ dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

☒ cyclophosphamide (CYTOXAN) 300 mg/m2 in sodium chloride 0.9 % 250 mL chemo IVPB

Dose: 300 mg/m2

Route: intravenous

every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

CYCLOPHOSPHAM

Medications

300

Main

Yes

IDE 1 GRAM

mg/m2

Ingredient

INTRAVENOUS

SOLUTION

SODIUM

QS Base

250 mL

Yes

Yes

CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION  
DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

QS Base 250 mL No Yes

☒ **mesna (MESNEX) 600 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB**

Dose: 600 mg/m2 Route: intravenous once over 24 Hours for 1 dose  
Offset: 30 Minutes

| Ingredients: | Name                                             | Type        | Dose      | Selected        | Adds Vol. |
|--------------|--------------------------------------------------|-------------|-----------|-----------------|-----------|
|              | MESNA 100 MG/ML INTRAVENOUS SOLUTION             | Medications | 600 mg/m2 | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION       | QS Base     | 500 mL    | Yes             | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | QS Base     | 500 mL    | No              | Yes       |

Supportive Care

**allopurinol (ZYLOPRIM) tablet 300 mg**

Dose: 300 mg Route: oral 2 times daily

Start: S

Instructions:

Dosing: reduce dose to 100 mg if Acute Renal Failure.

Hematology & Oncology Hypersensitivity Reaction Standing Order

**ONC NURSING COMMUNICATION 82**

Interval: Until discontinued

Occurrences: --

Comments:

Grade 1 - MILD Symptoms (cutaneous and subcutaneous symptoms only – itching, flushing, periorbital edema, rash, or runny nose)

1. Stop the infusion.
2. Place the patient on continuous monitoring.
3. Obtain vital signs.
4. Administer Normal Saline at 50 mL per hour using a new bag and new intravenous tubing.
5. If greater than or equal to 30 minutes since the last dose of Diphenhydramine, administer Diphenhydramine 25 mg intravenous once.
6. If less than 30 minutes since the last dose of Diphenhydramine, administer Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
7. Notify the treating physician.
8. If no improvement after 15 minutes, advance level of care to Grade 2 (Moderate) or Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**ONC NURSING COMMUNICATION 83**

Interval: Until discontinued

Occurrences: --

Comments:

Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea, vomiting, dizziness, diaphoresis, throat or chest tightness, abdominal or back pain)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
6. Administer Normal Saline at 150 mL per hour using a new bag and new intravenous tubing.
7. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous), Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
8. If no improvement after 15 minutes, advance level of care to Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### ONC NURSING COMMUNICATION 4

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 3 – SEVERE Symptoms (hypoxia, hypotension, or neurologic compromise – cyanosis or O2 saturation less than 92%, hypotension with systolic blood pressure less than 90 mmHg, confusion, collapse, loss of consciousness, or incontinence)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. If heart rate is less than 50 or greater than 120, or blood pressure is less than 90/50 mmHg, place patient in reclined or flattened position.
6. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
7. Administer Normal Saline at 1000 mL intravenous bolus using a new bag and new intravenous tubing.
8. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous) and Famotidine 20 mg intravenous once.
9. Administer Epinephrine (1:1000) 0.3 mg subcutaneous.
10. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### **diphenhydramine (BENADRYL) injection 25 mg**

Dose: 25 mg                      Route: intravenous                      PRN  
Start: S

#### **fexofenadine (ALLEGRA) tablet 180 mg**

Dose: 180 mg                      Route: oral                      PRN  
Start: S

#### **famotidine (PEPCID) 20 mg/2 mL injection 20 mg**

Dose: 20 mg                      Route: intravenous                      PRN  
Start: S

#### **hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg**

Dose: 100 mg                      Route: intravenous                      PRN

#### **dexamethasone (DECADRON) injection 4 mg**

Dose: 4 mg                      Route: intravenous                      PRN  
Start: S

#### **epINEPhrine (ADRENALIN) 1 mg/10 mL ADULT**

**injection syringe 0.3 mg**

Dose: 0.3 mg

Route: subcutaneous

PRN

Start: S

**Discharge Nursing Orders**☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

☒ **HEParin, porcine (PF) injection 500 Units**

Dose: 500 Units

Route: intra-catheter

once PRN

Start: S

Instructions:

Concentration: 100 units/mL. Heparin flush for  
Implanted Vascular Access Device  
maintenance.

**Day 2**

Perform every 1 day x1

**Nursing Orders****sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

**Pre-Medications**☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

No

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

No

Yes

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**

APREPITANT 7.2  
MG/ML

Medications

130 mg

Main

Yes

Inredient

|                       |      |        |     |     |  |
|-----------------------|------|--------|-----|-----|--|
| INTRAVENOUS EMULSION  |      |        |     |     |  |
| DEXTROSE 5 % IN       | Base | 130 mL | Yes | Yes |  |
| WATER (D5W) IV        |      |        |     |     |  |
| SOLP (EXCEL; NON-PVC) |      |        |     |     |  |
| SODIUM                | Base | 130 mL | No  | Yes |  |
| CHLORIDE 0.9 % IV     |      |        |     |     |  |
| SOLP                  |      |        |     |     |  |
| (EXCEL;NON-PVC)       |      |        |     |     |  |

#### Hydration

☐ (No Medication Selected)

Dose: --

Route: intravenous

continuous

Start: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

DEXTROSE 5 % IN

Base

1,000 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

#### Chemotherapy

☒ **dexamethasone (DECADRON) tablet 40 mg**

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

☒ **cyclophosphamide (CYTOXAN) 300 mg/m2 in sodium chloride 0.9 % 250 mL chemo IVPB**

Dose: 300 mg/m2

Route: intravenous

every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

CYCLOPHOSPHAM

Medications

300

Main

Yes

IDE 1 GRAM

mg/m2

Ingredient

INTRAVENOUS

SOLUTION

SODIUM

QS Base

250 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

|                 |         |        |    |     |  |
|-----------------|---------|--------|----|-----|--|
| SOLUTION        |         |        |    |     |  |
| DEXTROSE 5 % IN | QS Base | 250 mL | No | Yes |  |
| WATER (D5W)     |         |        |    |     |  |
| INTRAVENOUS     |         |        |    |     |  |
| SOLUTION        |         |        |    |     |  |

☒ **mesna (MESNEX) 600 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB**

Dose: 600 mg/m2      Route: intravenous      once over 24 Hours for 1 dose  
Offset: 30 Minutes

| Ingredients: | Name                                             | Type        | Dose      | Selected        | Adds Vol. |
|--------------|--------------------------------------------------|-------------|-----------|-----------------|-----------|
|              | MESNA 100 MG/ML INTRAVENOUS SOLUTION             | Medications | 600 mg/m2 | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION       | QS Base     | 500 mL    | Yes             | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | QS Base     | 500 mL    | No              | Yes       |

Intrathecal Injections

**methotrexate PF 12 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 12 mg      Route: intrathecal      once over 5 Minutes for 1 dose  
Start: S      End: S  
Instructions:  
Preservative free for intrathecal use.

| Ingredients: | Name                                                 | Type        | Dose    | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|---------|-----------------|-----------|
|              | METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION | Medications | 12 mg   | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INJECTION SOLUTION             | QS Base     | 4.52 mL | Yes             | Yes       |

**Day 3**

Perform every 1 day x1

Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL      Route: intravenous      once @ 30 mL/hr for 1 dose  
Start: S  
Instructions:  
To keep vein open.

Pre-Medications

☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --      Route: intravenous      once over 15 Minutes for 1 dose  
Start: S

| Ingredients: | Name                                              | Type        | Dose  | Selected | Adds Vol. |
|--------------|---------------------------------------------------|-------------|-------|----------|-----------|
|              | ONDANSETRON HCL (PF) 4 MG/2 ML INJECTION SOLUTION | Medications | 16 mg | Yes      | No        |
|              | DEXAMETHASONE 4 MG/ML INJECTION SOLUTION          | Medications | 12 mg | No       | No        |
|              | SODIUM CHLORIDE 0.9 %                             | Base        | 50 mL | Always   | Yes       |

|                                                                                                   |  |                                                      |             |                                 |                 |                  |
|---------------------------------------------------------------------------------------------------|--|------------------------------------------------------|-------------|---------------------------------|-----------------|------------------|
| INTRAVENOUS SOLUTION                                                                              |  | DEXTROSE 5 % IN Base                                 |             | No                              | Yes             |                  |
| WATER (D5W)                                                                                       |  |                                                      |             |                                 |                 |                  |
| INTRAVENOUS SOLUTION                                                                              |  |                                                      |             |                                 |                 |                  |
| <input type="checkbox"/> <b>ondansetron (ZOFTRAN) tablet 16 mg</b>                                |  |                                                      |             |                                 |                 |                  |
| Dose: 16 mg                                                                                       |  | Route: oral                                          |             | once for 1 dose                 |                 |                  |
| Start: S                                                                                          |  |                                                      |             |                                 |                 |                  |
| <input type="checkbox"/> <b>dexamethasone (DECADRON) tablet 12 mg</b>                             |  |                                                      |             |                                 |                 |                  |
| Dose: 12 mg                                                                                       |  | Route: oral                                          |             | once for 1 dose                 |                 |                  |
| Start: S                                                                                          |  |                                                      |             |                                 |                 |                  |
| <input type="checkbox"/> <b>aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB</b> |  |                                                      |             |                                 |                 |                  |
| Dose: 130 mg                                                                                      |  | Route: intravenous                                   |             | once over 30 Minutes for 1 dose |                 |                  |
| Start: S                                                                                          |  | End: S                                               |             |                                 |                 |                  |
| <b>Ingredients:</b>                                                                               |  | <b>Name</b>                                          | <b>Type</b> | <b>Dose</b>                     | <b>Selected</b> | <b>Adds Vol.</b> |
|                                                                                                   |  | APREPITANT 7.2 MG/ML                                 | Medications | 130 mg                          | Main Ingredient | Yes              |
|                                                                                                   |  | INTRAVENOUS EMULSION                                 |             |                                 |                 |                  |
|                                                                                                   |  | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL                          | Yes             | Yes              |
|                                                                                                   |  | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL                          | No              | Yes              |

Hydration

|                                                       |  |                                                  |             |             |                 |                  |
|-------------------------------------------------------|--|--------------------------------------------------|-------------|-------------|-----------------|------------------|
| <input type="radio"/> <b>(No Medication Selected)</b> |  |                                                  |             |             |                 |                  |
| Dose: --                                              |  | Route: intravenous                               |             | continuous  |                 |                  |
| Start: S                                              |  |                                                  |             |             |                 |                  |
| <b>Ingredients:</b>                                   |  | <b>Name</b>                                      | <b>Type</b> | <b>Dose</b> | <b>Selected</b> | <b>Adds Vol.</b> |
|                                                       |  | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | Base        | 1,000 mL    | No              | Yes              |

## Chemotherapy

### ☒ dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

### ☒ cyclophosphamide (CYTOXAN) 300 mg/m<sup>2</sup> in sodium chloride 0.9 % 250 mL chemo IVPB

Dose: 300 mg/m<sup>2</sup>

Route: intravenous

every 12 hours over 120 Minutes for 2 doses

Offset: 30 Minutes

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

CYCLOPHOSPHAM

Medications

300

Main

Yes

IDE 1 GRAM

mg/m<sup>2</sup>

Ingredient

INTRAVENOUS

SOLUTION

SODIUM

QS Base

250 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

DEXTROSE 5 % IN

QS Base

250 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

### ☒ mesna (MESNEX) 600 mg/m<sup>2</sup> in sodium chloride 0.9 % 500 mL chemo IVPB

Dose: 600 mg/m<sup>2</sup>

Route: intravenous

once over 24 Hours for 1 dose

Offset: 30 Minutes

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

MESNA 100 MG/ML

Medications

600

Main

Yes

INTRAVENOUS

SOLUTION

SODIUM

QS Base

500 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

DEXTROSE 5 % IN

QS Base

500 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

## Day 4

Perform every 1 day x1

### Nursing Orders

#### sodium chloride 0.9 % infusion 250 mL

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

### Pre-Medications

### ☒ ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

ONDANSETRON

Medications

16 mg

Yes

No

HCL (PF) 4 MG/2

ML INJECTION

SOLUTION

DEXAMETHASONE

Medications

12 mg

No

No

4 MG/ML

|                                                                                                                                           |      |       |        |     |
|-------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|-----|
| INJECTION<br>SOLUTION<br>SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION<br>DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base | 50 mL | Always | Yes |
|                                                                                                                                           | Base |       | No     | Yes |

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

|             |             |                 |
|-------------|-------------|-----------------|
| Dose: 16 mg | Route: oral | once for 1 dose |
| Start: S    |             |                 |

☐ **dexamethasone (DECADRON) tablet 12 mg**

|             |             |                 |
|-------------|-------------|-----------------|
| Dose: 12 mg | Route: oral | once for 1 dose |
| Start: S    |             |                 |

☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

|              |                    |                                 |
|--------------|--------------------|---------------------------------|
| Dose: 130 mg | Route: intravenous | once over 30 Minutes for 1 dose |
| Start: S     | End: S             |                                 |

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

Hydration

☐ **(No Medication Selected)**

|          |                    |            |
|----------|--------------------|------------|
| Dose: -- | Route: intravenous | continuous |
| Start: S |                    |            |

| Ingredients: | Name                                             | Type | Dose     | Selected | Adds Vol. |
|--------------|--------------------------------------------------|------|----------|----------|-----------|
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | Base | 1,000 mL | No       | Yes       |

## Chemotherapy

### dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

### DOXOrubicin (ADRIAmycin) 50 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB

Dose: 50 mg/m2

Route: intravenous

once over 15 Minutes for 1 dose

Offset: 30 Minutes

Instructions:

Protect from light; VESICANT

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

DOXORUBICIN 50 MG/25 ML

Medications

50 mg/m2

Main

Yes

INTRAVENOUS SOLUTION

SODIUM CHLORIDE 0.9 %

Base

50 mL

Yes

Yes

INTRAVENOUS SOLUTION

DEXTROSE 5 % IN WATER (D5W)

Base

50 mL

No

Yes

INTRAVENOUS SOLUTION

### vinCRISTine (ONCOVIN) 1.4 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB

Dose: 1.4 mg/m2

Route: intravenous

once over 10 Minutes for 1 dose

Offset: 45 Minutes

Instructions:

Protect from light, VESICANT. Maximum Dose = 2 mg.

Rule-Based Template: RULE ONCBCN

VINCRIStINE 1.4 MG/M2

Conditions:

BSA < 1.43 m2

BSA >= 1.43 m2

Modifications:

Set dose to 1.4 mg/m2

Set dose to 2 mg

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

VINCRIStINE 1 MG/ML

Medications

1.4 mg/m2

Main

Yes

INTRAVENOUS SOLUTION

SODIUM CHLORIDE 0.9 %

Base

50 mL

Yes

Yes

INTRAVENOUS SOLUTION

## Outpatient Day 11

Perform every 1 day x1

### Appointment Requests

#### INFUSION APPOINTMENT REQUEST

Interval: --

Occurrences: --

### Labs

#### ☒ CBC WITH PLATELET AND DIFFERENTIAL

Interval: --

Occurrences: --

☒ **COMPREHENSIVE METABOLIC PANEL**

Interval: -- Occurrences: --

☒ **MAGNESIUM LEVEL**

Interval: -- Occurrences: --

☐ **LDH**

Interval: -- Occurrences: --

☐ **URIC ACID LEVEL**

Interval: -- Occurrences: --

Line Flush

**sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL Route: intravenous PRN  
Start: S

Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL Route: intravenous once @ 30 mL/hr for 1 dose  
Start: S  
Instructions:  
To keep vein open.

Nursing Orders

**ONC NURSING COMMUNICATION**

Interval: Once Occurrences: --  
Comments: Remind patient to take Dexamethasone on Days 1 through 4, and Days 11 through 14. Some doses may be given in hospital / clinic.

Chemotherapy

**dexamethasone (DECADRON) tablet 40 mg**

Dose: 40 mg Route: oral once for 1 dose  
Start: S

**vinCRISTine (ONCOVIN) 1.4 mg/m2 in sodium chloride 0.9 % 50 mL chemo IVPB**

Dose: 1.4 mg/m2 Route: intravenous once over 10 Minutes for 1 dose  
Start: S  
Instructions:  
Protect from light, VESICANT. Max dose = 2 mg.

Rule-Based Template: RULE ONCBCN  
VINCRIStINE 1.4 MG/M2

Conditions:  
BSA < 1.43 m2  
BSA >= 1.43 m2

Modifications:  
Set dose to 1.4 mg/m2  
Set dose to 2 mg

**Ingredients:**

**Name**

VINCRIStINE 1  
MG/ML  
INTRAVENOUS  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

**Type**

Medications

Base

**Dose**

1.4  
mg/m2

50 mL

**Selected**

Main  
Ingredient

Yes

**Adds Vol.**

Yes

Yes

Appointment Requests

**IR LUMBAR PUNCTURE**

Interval: -- Occurrences: --

Labs

**CSF CELL COUNT WITH DIFFERENTIAL**

Interval: -- Occurrences: --

Comments: Specimen to be drawn in Interventional Radiology area.

**PROTEIN, CSF**

Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

**GLUCOSE LEVEL, CSF**

Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

**FLOW CYTOMETRY EVALUATION**

Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

**CYTOLOGY (NON-GYNECOLOGICAL)  
REQUEST**

Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

**Intrathecal Injections**

**cytarabine PF (CYSTOSAR) 100 mg in sodium  
chloride 0.9% 5 mL chemo PF INTRATHECAL  
injection**

Dose: 100 mg Route: intrathecal once over 5 Minutes for 1 dose  
Start: S End: S

Instructions:  
HAZARDOUS - Handle with care.  
Preservative free for intrathecal use.

| Ingredients: | Name                                                               | Type        | Dose   | Selected           | Adds Vol. |
|--------------|--------------------------------------------------------------------|-------------|--------|--------------------|-----------|
|              | CYTARABINE (PF)<br>100 MG/5 ML (20<br>MG/ML) INJECTION<br>SOLUTION | Medications | 100 mg | Main<br>Ingredient | Yes       |
|              | SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION                | QS Base     |        | Yes                | Yes       |

**Discharge Nursing Orders**

**ONC NURSING COMMUNICATION 76**

Interval: -- Occurrences: --  
Comments: Discontinue IV.

**Discharge Nursing Orders**

☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL Route: intravenous PRN

☒ **HEParin, porcine (PF) injection 500 Units**

Dose: 500 Units Route: intra-catheter once PRN  
Start: S  
Instructions:  
Concentration: 100 units/mL. Heparin flush for  
Implanted Vascular Access Device  
maintenance.

**HyperCVAD Part 3B**

Repeat 1 time

Cycle length: 21 days

**Day 1**

Perform every 1 day x1

Provider Communication

**ONC PROVIDER COMMUNICATION 5**

|                |                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------|
| Interval: Once | Occurrences: --                                                                                             |
| Comments:      | Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%. |

#### Labs

☒ **CBC WITH PLATELET AND DIFFERENTIAL**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

☒ **COMPREHENSIVE METABOLIC PANEL**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

☒ **MAGNESIUM LEVEL**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

☐ **LDH**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

☐ **URIC ACID LEVEL**

|                |                 |
|----------------|-----------------|
| Interval: Once | Occurrences: -- |
|----------------|-----------------|

#### Labs

**PH, URINALYSIS**

|                       |                 |
|-----------------------|-----------------|
| Interval: Conditional | Occurrences: -- |
|-----------------------|-----------------|

Frequency

Comments: Draw prior to starting methotrexate and PRN until pH GREATER than 7. Then draw urine pH every 8 hours until MTX is LESS than 0.05

#### Nursing Orders

**ONC NURSING COMMUNICATION 64**

|                              |                 |
|------------------------------|-----------------|
| Interval: Until discontinued | Occurrences: -- |
|------------------------------|-----------------|

Comments: Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

#### Line Flush

**sodium chloride 0.9 % flush 20 mL**

|             |                    |     |
|-------------|--------------------|-----|
| Dose: 20 mL | Route: intravenous | PRN |
|-------------|--------------------|-----|

Start: S

#### Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

|              |                    |                            |
|--------------|--------------------|----------------------------|
| Dose: 250 mL | Route: intravenous | once @ 30 mL/hr for 1 dose |
|--------------|--------------------|----------------------------|

Start: S

Instructions:  
To keep vein open.

#### Pre-Medications

**ondansetron (ZOFTRAN) 16 mg, dexamethasone**

☒ **(DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB**

|          |                    |                                 |
|----------|--------------------|---------------------------------|
| Dose: -- | Route: intravenous | once over 15 Minutes for 1 dose |
|----------|--------------------|---------------------------------|

Start: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

Yes

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

No

Yes

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

☐ **aprepitant (CINVANTI) 130 mg in dextrose  
(NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

**Ingredients:**

**Name**

**Type**

**Dose**  
130 mg

**Selected**  
Main  
Ingredient

**Adds Vol.**  
Yes

APREPITANT 7.2  
MG/ML  
INTRAVENOUS  
EMULSION

Medications

DEXTROSE 5 % IN  
WATER (D5W) IV  
SOLP (EXCEL;  
NON-PVC)

Base

130 mL

Yes

Yes

SODIUM  
CHLORIDE 0.9 % IV  
SOLP  
(EXCEL;NON-PVC)

Base

130 mL

No

Yes

Hydration

**dextrose 5% 1,000 mL with sodium bicarbonate  
150 mEq infusion**

Dose: 150 mL/hr

Route: intravenous

continuous

Start: S

**Instructions:**

Hydrate patient for 4 hours PRIOR to checking  
urine pH.

Run until methotrexate level is LESS than 0.05  
micromol/L.

**Ingredients:**

**Name**

**Type**

**Dose**  
1,000 mL

**Selected**  
Yes

**Adds Vol.**  
Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

#### Provider Communication

##### **ONC PROVIDER COMMUNICATION 13**

Interval: Once

Occurrences: --

Comments:

Provider to confirm dose for patients over 60 years of age for Cytarabine.

#### Supportive Care

##### **prednisONE acetate (PRED FORTE) 1 %**

##### **ophthalmic suspension 2 drop**

Dose: 2 drop

Route: Both Eyes

every 4 hours while awake

Start: S

#### Supportive Care

##### **allopurinol (ZYLOPRIM) tablet 300 mg**

Dose: 300 mg

Route: oral

2 times daily

Start: S

Instructions:

Dosing: reduce dose to 100 mg if Acute Renal Failure.

#### Chemotherapy

##### **methotrexate PF 200 mg/m2 in sodium chloride**

##### **0.9% 250 mL chemo IVPB**

Dose: 200 mg/m2

Route: intravenous

once over 120 Minutes for 1 dose

Offset: 30 Minutes

##### **Ingredients:**

##### **Name**

##### **Type**

##### **Dose**

##### **Selected**

##### **Adds Vol.**

METHOTREXATE  
SODIUM (PF) 25  
MG/ML INJECTION  
SOLUTION

Medications

200  
mg/m2

Main  
Ingredient

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

QS Base

250 mL

No

Yes

QS Base

250 mL

Yes

Yes

##### **methotrexate PF 800 mg/m2 in sodium chloride**

##### **0.9% 500 mL chemo IVPB**

Dose: 800 mg/m2

Route: intravenous

once over 22 Hours for 1 dose

Offset: 2.5 Hours

| Ingredients: | Name                                                 | Type        | Dose      | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|-----------|-----------------|-----------|
|              | METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION | Medications | 800 mg/m2 | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION     | QS Base     | 500 mL    | No              | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION           | QS Base     | 500 mL    | Yes             | Yes       |

#### Hematology & Oncology Hypersensitivity Reaction Standing Order

##### ONC NURSING COMMUNICATION 82

Interval: Until discontinued

Occurrences: --

Comments:

Grade 1 - MILD Symptoms (cutaneous and subcutaneous symptoms only – itching, flushing, periorbital edema, rash, or runny nose)

1. Stop the infusion.
2. Place the patient on continuous monitoring.
3. Obtain vital signs.
4. Administer Normal Saline at 50 mL per hour using a new bag and new intravenous tubing.
5. If greater than or equal to 30 minutes since the last dose of Diphenhydramine, administer Diphenhydramine 25 mg intravenous once.
6. If less than 30 minutes since the last dose of Diphenhydramine, administer Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
7. Notify the treating physician.
8. If no improvement after 15 minutes, advance level of care to Grade 2 (Moderate) or Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

##### ONC NURSING COMMUNICATION 83

Interval: Until discontinued

Occurrences: --

Comments:

Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea, vomiting, dizziness, diaphoresis, throat or chest tightness, abdominal or back pain)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
6. Administer Normal Saline at 150 mL per hour using a new bag and new intravenous tubing.
7. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous), Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
8. If no improvement after 15 minutes, advance level of care to Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

##### ONC NURSING COMMUNICATION 4

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 3 – SEVERE Symptoms (hypoxia, hypotension, or neurologic compromise – cyanosis or O2 saturation less than 92%, hypotension with systolic blood pressure less than 90 mmHg, confusion, collapse, loss of consciousness, or incontinence)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. If heart rate is less than 50 or greater than 120, or blood pressure is less than 90/50 mmHg, place patient in reclined or flattened position.
6. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
7. Administer Normal Saline at 1000 mL intravenous bolus using a new bag and new intravenous tubing.
8. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous) and Famotidine 20 mg intravenous once.
9. Administer Epinephrine (1:1000) 0.3 mg subcutaneous.
10. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**diphenhydramine (BENADRYL) injection 25 mg**

Dose: 25 mg                      Route: intravenous                      PRN  
Start: S

**fexofenadine (ALLEGRA) tablet 180 mg**

Dose: 180 mg                      Route: oral                      PRN  
Start: S

**famotidine (PEPCID) 20 mg/2 mL injection 20 mg**

Dose: 20 mg                      Route: intravenous                      PRN  
Start: S

**hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg**

Dose: 100 mg                      Route: intravenous                      PRN

**dexamethasone (DECADRON) injection 4 mg**

Dose: 4 mg                      Route: intravenous                      PRN  
Start: S

**epinephrine (ADRENALIN) 1 mg/10 mL ADULT injection syringe 0.3 mg**

Dose: 0.3 mg                      Route: subcutaneous                      PRN  
Start: S

**Discharge Nursing Orders**

☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL                      Route: intravenous                      PRN

☒ **HEparin, porcine (PF) injection 500 Units**

Dose: 500 Units                      Route: intra-catheter                      once PRN  
Start: S

Instructions:

Concentration: 100 units/mL. Heparin flush for Implanted Vascular Access Device maintenance.

**Day 2**

Labs

Perform every 1 day x1

☒ **METHOTREXATE LEVEL**

Interval: Once

Occurrences: --

☒ **PH, URINALYSIS**

Interval: Conditional

Occurrences: --

Frequency

Comments:

Draw prior to starting Methotrexate and PRN until pH GREATER than 7. Then draw urine pH every day until MTX is LESS than 0.05

**Nursing Orders**

**ONC NURSING COMMUNICATION 64**

Interval: Until discontinued

Occurrences: --

Comments:

Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

**Nursing Orders**

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

**Pre-Medications**

**ondansetron (ZOFRAN) 16 mg, dexamethasone**

☒ **(DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

Yes

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

No

Yes

☐ **ondansetron (ZOFRAN) tablet 16 mg**

Dose: 16 mg                      Route: oral                      once for 1 dose  
 Start: S  
 Instructions:  
 Administer 30 minutes prior to chemotherapy.

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg                      Route: oral                      once for 1 dose  
 Start: S  
 Instructions:  
 Administer 30 minutes prior to chemotherapy.

☒ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg                      Route: intravenous                      once over 30 Minutes for 1 dose  
 Start: S                      End: S  
 Instructions:  
 Administer 30 minutes prior to chemotherapy.

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

Chemotherapy

**cytarabine PF (CYSTOSAR) 3,000 mg/m2 in dextrose 5% 500 mL chemo IVPB**

Dose: 3,000 mg/m2                      Route: intravenous                      every 12 hours over 120 Minutes for 2 doses  
 Offset: 30 Minutes

Instructions:  
 Cytarabine dosing:  
 if serum creatinine GREATER than 1.5 =  
 Cytarabine 1 gm.  
 If age GREATER than 60 years old =  
 Cytarabine 1.5 gm.

| Ingredients: | Name                                                        | Type        | Dose        | Selected        | Adds Vol. |
|--------------|-------------------------------------------------------------|-------------|-------------|-----------------|-----------|
|              | CYTARABINE (PF) 2 GRAM/20 ML (100 MG/ML) INJECTION SOLUTION | Medications | 3,000 mg/m2 | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION                  | QS Base     | 500 mL      | No              | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION            | QS Base     | 500 mL      | Yes             | Yes       |

Chemotherapy

**leucovorin IV 50 mg**

Dose: 50 mg                      Route: intravenous                      every 6 hours over 30 Minutes

Instructions:  
 Begin 12 hours AFTER COMPLETION of methotrexate infusion, and then Give every 6

hours.

Continue every 6 hours until Methotrexate levels are LESS than 0.05 micromol/L.

#### Intrathecal Injections

##### **methotrexate PF 12 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 12 mg      Route: intrathecal      once over 5 Minutes for 1 dose

Start: S      End: S

Instructions:

Preservative free for intrathecal use.

| Ingredients: | Name                                                 | Type        | Dose    | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|---------|-----------------|-----------|
|              | METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION | Medications | 12 mg   | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INJECTION SOLUTION             | QS Base     | 4.52 mL | Yes             | Yes       |

#### Day 3

Perform every 1 day x1

#### Labs

##### ☒ **METHOTREXATE LEVEL**

Interval: Once      Occurrences: --

##### ☒ **PH, URINALYSIS**

Interval: Conditional      Occurrences: --

Frequency

Comments: Draw prior to starting Methotrexate and PRN until pH GREATER than 7. Then draw urine pH every day until MTX is LESS than 0.05

#### Nursing Orders

##### **ONC NURSING COMMUNICATION 64**

Interval: Until      Occurrences: --

discontinued

Comments:

Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

#### Nursing Orders

##### **sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL      Route: intravenous      once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

#### Pre-Medications

##### **ondansetron (ZOFTRAN) 16 mg, dexamethasone**

##### ☒ **(DECADRON) 12 mg in sodium chloride 0.9%**

**50 mL IVPB**

Dose: --      Route: intravenous      once over 15 Minutes for 1 dose

Start: S

**Ingredients:**

| Name                                              | Type        | Dose  | Selected | Adds Vol. |
|---------------------------------------------------|-------------|-------|----------|-----------|
| ONDANSETRON HCL (PF) 4 MG/2 ML INJECTION SOLUTION | Medications | 16 mg | Yes      | No        |
| DEXAMETHASONE 4 MG/ML INJECTION SOLUTION          | Medications | 12 mg | Yes      | No        |
| SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION        | Base        | 50 mL | Always   | Yes       |
| DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION  | Base        |       | No       | Yes       |

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg      Route: oral      once for 1 dose  
Start: S

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg      Route: oral      once for 1 dose  
Start: S

☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg      Route: intravenous      once over 30 Minutes for 1 dose  
Start: S      End: S

**Ingredients:**

| Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|------------------------------------------------------|-------------|--------|-----------------|-----------|
| APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
| DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
| SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

**Chemotherapy**

**cytarabine PF (CYSTOSAR) 3,000 mg/m2 in dextrose 5% 500 mL chemo IVPB**

Dose: 3,000 mg/m2      Route: intravenous      every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

**Instructions:**

Cytarabine dosing:  
if serum creatinine GREATER than 1.5 =  
Cytarabine 1 gm.  
If age GREATER than 60 years old =  
Cytarabine 1.5 gm.

**Ingredients:**

| Name                                                        | Type        | Dose        | Selected        | Adds Vol. |
|-------------------------------------------------------------|-------------|-------------|-----------------|-----------|
| CYTARABINE (PF) 2 GRAM/20 ML (100 MG/ML) INJECTION SOLUTION | Medications | 3,000 mg/m2 | Main Ingredient | Yes       |
| SODIUM CHLORIDE 0.9 %                                       | QS Base     | 500 mL      | No              | Yes       |

|                                                    |        |     |     |
|----------------------------------------------------|--------|-----|-----|
| INTRAVENOUS<br>SOLUTION<br>DEXTROSE 5 % IN QS Base | 500 mL | Yes | Yes |
| WATER (D5W)<br>INTRAVENOUS<br>SOLUTION             |        |     |     |

**Outpatient Day 11**

Perform every 1 day x1

## Appointment Requests

**IR LUMBAR PUNCTURE**

Interval: -- Occurrences: --

## Labs

**CSF CELL COUNT WITH DIFFERENTIAL**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.**PROTEIN, CSF**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.**GLUCOSE LEVEL, CSF**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.**FLOW CYTOMETRY EVALUATION**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.**CYTOLOGY (NON-GYNECOLOGICAL)****REQUEST**Interval: -- Occurrences: --  
Comments: Specimen to be drawn in Interventional Radiology area.

## Intrathecal Injections

**cytarabine PF (CYSTOSAR) 100 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 100 mg Route: intrathecal once over 5 Minutes for 1 dose

Start: S End: S

## Instructions:

HAZARDOUS - Handle with care.

Preservative free for intrathecal use.

**Ingredients:**

| Name                                                      | Type        | Dose   | Selected        | Adds Vol. |
|-----------------------------------------------------------|-------------|--------|-----------------|-----------|
| CYTARABINE (PF) 100 MG/5 ML (20 MG/ML) INJECTION SOLUTION | Medications | 100 mg | Main Ingredient | Yes       |
| SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION                | QS Base     |        | Yes             | Yes       |

**HyperCVAD Part 4A**

Repeat 1 time

Cycle length: 21 days

**Day 1**

Perform every 1 day x1

## Labs

☒ **CBC WITH PLATELET AND DIFFERENTIAL**

Interval: Once Occurrences: --

☒ **COMPREHENSIVE METABOLIC PANEL**

Interval: Once Occurrences: --

☒ **MAGNESIUM LEVEL**

Interval: Once

Occurrences: --

☐ **LDH**

Interval: Once

Occurrences: --

☐ **URIC ACID LEVEL**

Interval: Once

Occurrences: --

Provider Communication

**ONC PROVIDER COMMUNICATION 5**

Interval: Once

Occurrences: --

Comments:

Use baseline weight to calculate dose. Adjust dose for weight gains/losses of greater than or equal to 10%.

Provider Communication

**ONC PROVIDER COMMUNICATION**

Interval: Once

Occurrences: --

Comments:

Verify Ejection Fraction prior to Cycle 1. Ejection Fraction: \*\*\*% on \*\*\* (date).

If patient has not had a recent MUGA or ECHO, order one via order entry. A baseline cardiac evaluation with a MUGA scan or an ECHO is recommended, especially in patients with risk factors for increased cardiac toxicity. Repeated MUGA or ECHO determinations of LVEF should be performed, particularly with higher, cumulative anthracycline doses.

Line Flush

**sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

Start: S

Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

Pre-Medications

☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: 16 mg

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

No

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN

Base

No

Yes

WATER (D5W)  
INTRAVENOUS  
SOLUTION

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg                      Route: oral                      once for 1 dose  
Start: S  
Instructions:  
Administer 30 minutes prior to chemotherapy.

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg                      Route: oral                      once for 1 dose  
Start: S  
Instructions:  
Administer 30 minutes prior to chemotherapy.

☒ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg                      Route: intravenous                      once over 30 Minutes for 1 dose  
Start: S                      End: S  
Instructions:  
Administer 30 minutes prior to chemotherapy.

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

Nursing Orders

**ONC NURSING COMMUNICATION 59**

Interval: Until discontinued                      Occurrences: --  
Comments:                      First mesna bag needs to start at the same time as cyclophosphamide initiation.

Hydration

☐ **(No Medication Selected)**

Dose: --                      Route: intravenous                      continuous

Start: S

| Ingredients: | Name                                             | Type | Dose     | Selected | Adds Vol. |
|--------------|--------------------------------------------------|------|----------|----------|-----------|
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | Base | 1,000 mL | No       | Yes       |

## Chemotherapy

### ☒ dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg      Route: oral      once for 1 dose  
Start: S

### ☒ cyclophosphamide (CYTOXAN) 300 mg/m<sup>2</sup> in sodium chloride 0.9 % 250 mL chemo IVPB

Dose: 300 mg/m<sup>2</sup>      Route: intravenous      every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

| Ingredients: | Name                                             | Type        | Dose                  | Selected        | Adds Vol. |
|--------------|--------------------------------------------------|-------------|-----------------------|-----------------|-----------|
|              | CYCLOPHOSPHAMIDE 1 GRAM INTRAVENOUS SOLUTION     | Medications | 300 mg/m <sup>2</sup> | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION       | QS Base     | 250 mL                | Yes             | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | QS Base     | 250 mL                | No              | Yes       |

### ☒ mesna (MESNEX) 600 mg/m<sup>2</sup> in sodium chloride 0.9 % 500 mL chemo IVPB

Dose: 600 mg/m<sup>2</sup>      Route: intravenous      once over 24 Hours for 1 dose  
Offset: 30 Minutes

| Ingredients: | Name                                             | Type        | Dose                  | Selected        | Adds Vol. |
|--------------|--------------------------------------------------|-------------|-----------------------|-----------------|-----------|
|              | MESNA 100 MG/ML INTRAVENOUS SOLUTION             | Medications | 600 mg/m <sup>2</sup> | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION       | QS Base     | 500 mL                | Yes             | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION | QS Base     | 500 mL                | No              | Yes       |

## Supportive Care

### allopurinol (ZYLORIM) tablet 300 mg

Dose: 300 mg      Route: oral      2 times daily  
Start: S  
Instructions:  
Dosing: reduce dose to 100 mg if Acute Renal Failure.

**ONC NURSING COMMUNICATION 82**

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 1 - MILD Symptoms (cutaneous and subcutaneous symptoms only – itching, flushing, periorbital edema, rash, or runny nose)

1. Stop the infusion.
2. Place the patient on continuous monitoring.
3. Obtain vital signs.
4. Administer Normal Saline at 50 mL per hour using a new bag and new intravenous tubing.
5. If greater than or equal to 30 minutes since the last dose of Diphenhydramine, administer Diphenhydramine 25 mg intravenous once.
6. If less than 30 minutes since the last dose of Diphenhydramine, administer Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
7. Notify the treating physician.
8. If no improvement after 15 minutes, advance level of care to Grade 2 (Moderate) or Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**ONC NURSING COMMUNICATION 83**

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea, vomiting, dizziness, diaphoresis, throat or chest tightness, abdominal or back pain)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
6. Administer Normal Saline at 150 mL per hour using a new bag and new intravenous tubing.
7. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous), Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
8. If no improvement after 15 minutes, advance level of care to Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**ONC NURSING COMMUNICATION 4**

Interval: Until discontinued  
Comments:

Occurrences: --

Grade 3 – SEVERE Symptoms (hypoxia, hypotension, or neurologic compromise – cyanosis or O2 saturation less than 92%, hypotension with systolic blood pressure less than 90 mmHg, confusion, collapse, loss of consciousness, or incontinence)

1. Stop the infusion.
2. Notify the CERT team and treating physician immediately.
3. Place the patient on continuous monitoring.
4. Obtain vital signs.
5. If heart rate is less than 50 or greater than 120, or blood pressure is less than 90/50 mmHg, place patient in reclined or flattened position.
6. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.

7. Administer Normal Saline at 1000 mL intravenous bolus using a new bag and new intravenous tubing.
8. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous) and Famotidine 20 mg intravenous once.
9. Administer Epinephrine (1:1000) 0.3 mg subcutaneous.
10. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

**diphenhydramine (BENADRYL) injection 25 mg**

Dose: 25 mg                      Route: intravenous                      PRN  
Start: S

**fexofenadine (ALLEGRA) tablet 180 mg**

Dose: 180 mg                      Route: oral                      PRN  
Start: S

**famotidine (PEPCID) 20 mg/2 mL injection 20 mg**

Dose: 20 mg                      Route: intravenous                      PRN  
Start: S

**hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg**

Dose: 100 mg                      Route: intravenous                      PRN

**dexamethasone (DECADRON) injection 4 mg**

Dose: 4 mg                      Route: intravenous                      PRN  
Start: S

**epinephrine (ADRENALIN) 1 mg/10 mL ADULT injection syringe 0.3 mg**

Dose: 0.3 mg                      Route: subcutaneous                      PRN  
Start: S

**Discharge Nursing Orders**

☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL                      Route: intravenous                      PRN

☒ **HEparin, porcine (PF) injection 500 Units**

Dose: 500 Units                      Route: intra-catheter                      once PRN  
Start: S

**Instructions:**

Concentration: 100 units/mL. Heparin flush for Implanted Vascular Access Device maintenance.

**Day 2**

Perform every 1 day x1

**Nursing Orders**

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL                      Route: intravenous                      once @ 30 mL/hr for 1 dose  
Start: S

**Instructions:**

To keep vein open.

**Pre-Medications**

☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --                      Route: intravenous                      once over 15 Minutes for 1 dose  
Start: S

**Ingredients:**

**Name**

ONDANSETRON  
HCL (PF) 4 MG/2

**Type**

Medications

**Dose**

16 mg

**Selected**

Yes

**Adds Vol.**

No

|                                                                                                                                                                                                   |             |        |     |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-----|----|
| ML INJECTION<br>SOLUTION<br>DEXAMETHASONE<br>4 MG/ML<br>INJECTION<br>SOLUTION<br>SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION<br>DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Medications | 12 mg  | No  | No |
| Base                                                                                                                                                                                              | 50 mL       | Always | Yes |    |
| Base                                                                                                                                                                                              |             | No     | Yes |    |

☐ **ondansetron (ZOFRAN) tablet 16 mg**

Dose: 16 mg      Route: oral      once for 1 dose  
Start: S

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg      Route: oral      once for 1 dose  
Start: S

☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg      Route: intravenous      once over 30 Minutes for 1 dose  
Start: S      End: S

| Ingredients: | Name                                                                                                             | Type        | Dose   | Selected           | Adds Vol. |
|--------------|------------------------------------------------------------------------------------------------------------------|-------------|--------|--------------------|-----------|
|              | APREPITANT 7.2 MG/ML<br>INTRAVENOUS<br>EMULSION<br>DEXTROSE 5 % IN<br>WATER (D5W) IV<br>SOLP (EXCEL;<br>NON-PVC) | Medications | 130 mg | Main<br>Ingredient | Yes       |
|              | Base                                                                                                             | 130 mL      | Yes    | Yes                |           |
|              | Base                                                                                                             | 130 mL      | No     | Yes                |           |

Hydration

☐ **(No Medication Selected)**

Dose: --      Route: intravenous      continuous  
Start: S

| Ingredients: | Name                                                      | Type | Dose     | Selected | Adds Vol. |
|--------------|-----------------------------------------------------------|------|----------|----------|-----------|
|              | DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base | 1,000 mL | No       | Yes       |

## Chemotherapy

### ☒ dexamethasone (DECADRON) tablet 40 mg

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

### ☒ cyclophosphamide (CYTOXAN) 300 mg/m2 in sodium chloride 0.9 % 250 mL chemo IVPB

Dose: 300 mg/m2

Route: intravenous

every 12 hours over 120 Minutes for 2 doses

Offset: 30 Minutes

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

CYCLOPHOSPHAM

Medications

300

Main

Yes

IDE 1 GRAM

mg/m2

Ingredient

INTRAVENOUS  
SOLUTION

SODIUM  
CHLORIDE 0.9 %

QS Base

250 mL

Yes

Yes

INTRAVENOUS  
SOLUTION

DEXTROSE 5 % IN  
WATER (D5W)

QS Base

250 mL

No

Yes

INTRAVENOUS  
SOLUTION

### ☒ mesna (MESNEX) 600 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB

Dose: 600 mg/m2

Route: intravenous

once over 24 Hours for 1 dose

Offset: 30 Minutes

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

MESNA 100 MG/ML

Medications

600

Main

Yes

INTRAVENOUS  
SOLUTION

mg/m2

Ingredient

SODIUM  
CHLORIDE 0.9 %

QS Base

500 mL

Yes

Yes

INTRAVENOUS  
SOLUTION

DEXTROSE 5 % IN  
WATER (D5W)

QS Base

500 mL

No

Yes

INTRAVENOUS  
SOLUTION

## Intrathecal Injections

### methotrexate PF 12 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection

Dose: 12 mg

Route: intrathecal

once over 5 Minutes for 1 dose

Start: S

End: S

Instructions:

Preservative free for intrathecal use.

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

METHOTREXATE

Medications

12 mg

Main

Yes

SODIUM (PF) 25

Ingredient

MG/ML INJECTION

|                |         |         |     |     |  |
|----------------|---------|---------|-----|-----|--|
| SOLUTION       |         |         |     |     |  |
| SODIUM         | QS Base | 4.52 mL | Yes | Yes |  |
| CHLORIDE 0.9 % |         |         |     |     |  |
| INJECTION      |         |         |     |     |  |
| SOLUTION       |         |         |     |     |  |

### Day 3

Perform every 1 day x1

#### Nursing Orders

##### **sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

#### Pre-Medications

##### ☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

No

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION  
DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

Base

No

Yes

##### ☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

##### ☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

##### ☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

APREPITANT 7.2  
MG/ML  
INTRAVENOUS  
EMULSION

Medications

130 mg

Main

Yes

Ingredient

DEXTROSE 5 % IN  
WATER (D5W) IV  
SOLP (EXCEL;  
NON-PVC)  
SODIUM  
CHLORIDE 0.9 % IV  
SOLP  
(EXCEL;NON-PVC)

Base

130 mL

Yes

Yes

Base

130 mL

No

Yes

Hydration

☐ (No Medication Selected)

Dose: --

Route: intravenous

continuous

Start: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

DEXTROSE 5 % IN

Base

1,000 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

Chemotherapy

☒ **dexamethasone (DECADRON) tablet 40 mg**

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

☒ **cyclophosphamide (CYTOXAN) 300 mg/m2 in sodium chloride 0.9 % 250 mL chemo IVPB**

Dose: 300 mg/m2

Route: intravenous

every 12 hours over 120 Minutes for 2 doses

Offset: 30 Minutes

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

CYCLOPHOSPHAM Medications

300

Main

Yes

IDE 1 GRAM

mg/m2

Ingredient

INTRAVENOUS

SOLUTION

SODIUM

QS Base

250 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

DEXTROSE 5 % IN

QS Base

250 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

☒ **mesna (MESNEX) 600 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB**

Dose: 600 mg/m2

Route: intravenous

once over 24 Hours for 1 dose

Offset: 30 Minutes

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

MESNA 100 MG/ML Medications

600

Main

Yes

INTRAVENOUS

mg/m2

Ingredient

|                                                                 |         |        |     |     |
|-----------------------------------------------------------------|---------|--------|-----|-----|
| SOLUTION<br>SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION | QS Base | 500 mL | Yes | Yes |
| DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION       | QS Base | 500 mL | No  | Yes |

#### Day 4

Perform every 1 day x1

#### Nursing Orders

##### **sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

#### Pre-Medications

##### ☒ **ondansetron (ZOFTRAN) 16 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

No

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

No

Yes

##### ☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

##### ☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

##### ☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

APREPITANT 7.2  
MG/ML  
INTRAVENOUS  
EMULSION

Medications

130 mg

Main

Yes

Ingredient

DEXTROSE 5 % IN  
WATER (D5W) IV  
SOLP (EXCEL;  
NON-PVC)

Base

130 mL

Yes

Yes

SODIUM

Base

130 mL

No

Yes

CHLORIDE 0.9 % IV  
SOLP  
(EXCEL;NON-PVC)

Hydration

☐ (No Medication Selected)

Dose: --  
Start: S

Route: intravenous      continuous

| Ingredients: | Name                                                      | Type | Dose     | Selected | Adds Vol. |
|--------------|-----------------------------------------------------------|------|----------|----------|-----------|
|              | DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base | 1,000 mL | No       | Yes       |

Chemotherapy

**dexamethasone (DECADRON) tablet 40 mg**  
Dose: 40 mg      Route: oral      once for 1 dose  
Start: S

**DOXOrubicin (ADRIAmycin) 50 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB**  
Dose: 50 mg/m2      Route: intravenous      once over 15 Minutes for 1 dose  
Offset: 30 Minutes

Instructions:  
Protect from light; VESICANT

| Ingredients: | Name                                                      | Type        | Dose     | Selected           | Adds Vol. |
|--------------|-----------------------------------------------------------|-------------|----------|--------------------|-----------|
|              | DOXORUBICIN 50<br>MG/25 ML<br>INTRAVENOUS<br>SOLUTION     | Medications | 50 mg/m2 | Main<br>Ingredient | Yes       |
|              | SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION       | Base        | 50 mL    | Yes                | Yes       |
|              | DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION | Base        | 50 mL    | No                 | Yes       |

**vinCRIStine (ONCOVIN) 1.4 ma/m2 in sodium**

**chloride 0.9% 50 mL chemo IVPB**

Dose: 1.4 mg/m2

Route: intravenous

once over 10 Minutes for 1 dose

Offset: 45 Minutes

## Instructions:

Protect from light, VESICANT. Maximum  
Dose = 2 mg.

Rule-Based Template: RULE ONCBCN  
VINCRISTINE 1.4 MG/M2

## Conditions:

BSA &lt; 1.43 m2

BSA &gt;= 1.43 m2

## Modifications:

Set dose to 1.4 mg/m2

Set dose to 2 mg

**Ingredients:****Name**

VINCRISTINE 1  
MG/ML  
INTRAVENOUS  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

**Type**

Medications

**Dose**

1.4  
mg/m2

**Selected**

Main

Ingredient

**Adds Vol.**

Yes

Base

50 mL

Yes

Yes

**Outpatient Day 11**

Perform every 1 day x1

## Appointment Requests

**INFUSION APPOINTMENT REQUEST**

Interval: --

Occurrences: --

## Labs

☒ **CBC WITH PLATELET AND DIFFERENTIAL**

Interval: --

Occurrences: --

☒ **COMPREHENSIVE METABOLIC PANEL**

Interval: --

Occurrences: --

☒ **MAGNESIUM LEVEL**

Interval: --

Occurrences: --

☐ **LDH**

Interval: --

Occurrences: --

☐ **URIC ACID LEVEL**

Interval: --

Occurrences: --

## Line Flush

**sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

Start: S

## Nursing Orders

**sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

## Instructions:

To keep vein open.

## Nursing Orders

**ONC NURSING COMMUNICATION**

Interval: Once

Occurrences: --

## Comments:

Remind patient to take Dexamethasone on Days 1 through 4, and Days  
11 through 14. Some doses may be given in hospital / clinic.

## Chemotherapy

**dexamethasone (DECADRON) tablet 40 mg**

Dose: 40 mg

Route: oral

once for 1 dose

Start: S

**vinCRiStine (ONCOVIN) 1.4 mg/m2 in sodium chloride 0.9 % 50 mL chemo IVPB**

Dose: 1.4 mg/m2      Route: intravenous      once over 10 Minutes for 1 dose

Start: S

Instructions:

Protect from light, VESICANT.    Max dose = 2 mg.

Rule-Based Template: RULE ONCBCN

VINCRIStINE 1.4 MG/M2

Conditions:

BSA < 1.43 m2

BSA >= 1.43 m2

Modifications:

Set dose to 1.4 mg/m2

Set dose to 2 mg

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

VINCRIStINE 1  
MG/ML  
INTRAVENOUS  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Medications

1.4  
mg/m2

Main  
Ingredient

Base

50 mL

Yes

Yes

**Appointment Requests**

**IR LUMBAR PUNCTURE**

Interval: --

Occurrences: --

**Labs**

**CSF CELL COUNT WITH DIFFERENTIAL**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**PROTEIN, CSF**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**GLUCOSE LEVEL, CSF**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**FLOW CYTOMETRY EVALUATION**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**CYTOLOGY (NON-GYNECOLOGICAL)**

**REQUEST**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**Intrathecal Injections**

**cytarabine PF (CYSTOSAR) 100 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 100 mg

Route: intrathecal

once over 5 Minutes for 1 dose

Start: S

End: S

Instructions:

HAZARDOUS - Handle with care.

Preservative free for intrathecal use.

**Ingredients:**

**Name**

**Type**

**Dose**

**Selected**

**Adds Vol.**

CYTARABINE (PF)  
100 MG/5 ML (20

Medications

100 mg

Main  
Ingredient

Yes

MG/ML) INJECTION  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

QS Base

Yes

Yes

Discharge Nursing Orders

**ONC NURSING COMMUNICATION 76**

Interval: --

Occurrences: --

Comments:

Discontinue IV.

Discharge Nursing Orders

☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

☒ **HEParin, porcine (PF) injection 500 Units**

Dose: 500 Units

Route: intra-catheter

once PRN

Start: S

Instructions:

Concentration: 100 units/mL. Heparin flush for  
Implanted Vascular Access Device  
maintenance.

**HyperCVAD Part 4B**

Repeat 1 time

Cycle length: 21 days

**Day 1**

Perform every 1 day x1

Provider Communication

**ONC PROVIDER COMMUNICATION 5**

Interval: Once

Occurrences: --

Comments:

Use baseline weight to calculate dose. Adjust dose for weight  
gains/losses of greater than or equal to 10%.

Labs

☒ **CBC WITH PLATELET AND DIFFERENTIAL**

Interval: Once

Occurrences: --

☒ **COMPREHENSIVE METABOLIC PANEL**

Interval: Once

Occurrences: --

☒ **MAGNESIUM LEVEL**

Interval: Once

Occurrences: --

☐ **LDH**

Interval: Once

Occurrences: --

☐ **URIC ACID LEVEL**

Interval: Once

Occurrences: --

Labs

**PH, URINALYSIS**

Interval: Conditional

Occurrences: --

Frequency

Comments:

Draw prior to starting methotrexate and PRN until pH GREATER than 7.  
Then draw urine pH every 8 hours until MTX is LESS than 0.05

Nursing Orders

**ONC NURSING COMMUNICATION 64**

Interval: Until  
discontinued

Occurrences: --

**Comments:**

Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

**Line Flush****sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL

Route: intravenous

PRN

Start: S

**Nursing Orders****sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

**Pre-Medications****ondansetron (ZOFTRAN) 16 mg, dexamethasone**

- ☒ **(DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

Yes

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

No

Yes

- ☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

- ☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

- ☐ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**

APREPITANT 7.2

Medications

130 mg

Main

Yes

## Hydration

## Supportive Care

### allopurinol (ZYLOPRIM) tablet 300 mg

Dose: 300 mg

Route: oral

2 times daily

Start: S

Instructions:

Dosing: reduce dose to 100 mg if Acute Renal Failure.

## Chemotherapy

### methotrexate PF 200 mg/m2 in sodium chloride

#### 0.9% 250 mL chemo IVPB

Dose: 200 mg/m2

Route: intravenous

once over 120 Minutes for 1 dose

Offset: 30 Minutes

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

METHOTREXATE

Medications

200

Main

Yes

SODIUM (PF) 25

mg/m2

Ingredient

MG/ML INJECTION

SOLUTION

DEXTROSE 5 % IN

QS Base

250 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

SODIUM

QS Base

250 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

### methotrexate PF 800 mg/m2 in sodium chloride

#### 0.9% 500 mL chemo IVPB

Dose: 800 mg/m2

Route: intravenous

once over 22 Hours for 1 dose

Offset: 2.5 Hours

#### Ingredients:

#### Name

#### Type

#### Dose

#### Selected

#### Adds Vol.

METHOTREXATE

Medications

800

Main

Yes

SODIUM (PF) 25

mg/m2

Ingredient

MG/ML INJECTION

SOLUTION

DEXTROSE 5 % IN

QS Base

500 mL

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

SODIUM

QS Base

500 mL

Yes

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

## Hematology & Oncology Hypersensitivity Reaction Standing Order

### ONC NURSING COMMUNICATION 82

Interval: Until

Occurrences: --

discontinued

Comments:

Grade 1 - MILD Symptoms (cutaneous and subcutaneous symptoms only – itching, flushing, periorbital edema, rash, or runny nose)

1. Stop the infusion.

2. Place the patient on continuous monitoring.

3. Obtain vital signs.

4. Administer Normal Saline at 50 mL per hour using a new bag and new intravenous tubing.

5. If greater than or equal to 30 minutes since the last dose of Diphenhydramine, administer Diphenhydramine 25 mg intravenous once.

6. If less than 30 minutes since the last dose of Diphenhydramine, administer Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.

7. Notify the treating physician.

8. If no improvement after 15 minutes, advance level of care to Grade 2 (Moderate) or Grade 3 (Severe).
9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### ONC NURSING COMMUNICATION 83

Interval: Until discontinued

Occurrences: --

Comments:

- Grade 2 – MODERATE Symptoms (cardiovascular, respiratory, or gastrointestinal symptoms – shortness of breath, wheezing, nausea, vomiting, dizziness, diaphoresis, throat or chest tightness, abdominal or back pain)
1. Stop the infusion.
  2. Notify the CERT team and treating physician immediately.
  3. Place the patient on continuous monitoring.
  4. Obtain vital signs.
  5. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
  6. Administer Normal Saline at 150 mL per hour using a new bag and new intravenous tubing.
  7. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous), Fexofenadine 180 mg orally and Famotidine 20 mg intravenous once.
  8. If no improvement after 15 minutes, advance level of care to Grade 3 (Severe).
  9. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### ONC NURSING COMMUNICATION 4

Interval: Until discontinued

Occurrences: --

Comments:

- Grade 3 – SEVERE Symptoms (hypoxia, hypotension, or neurologic compromise – cyanosis or O2 saturation less than 92%, hypotension with systolic blood pressure less than 90 mmHg, confusion, collapse, loss of consciousness, or incontinence)
1. Stop the infusion.
  2. Notify the CERT team and treating physician immediately.
  3. Place the patient on continuous monitoring.
  4. Obtain vital signs.
  5. If heart rate is less than 50 or greater than 120, or blood pressure is less than 90/50 mmHg, place patient in reclined or flattened position.
  6. Administer Oxygen at 2 L per minute via nasal cannula. Titrate to maintain O2 saturation of greater than or equal to 92%.
  7. Administer Normal Saline at 1000 mL intravenous bolus using a new bag and new intravenous tubing.
  8. Administer Hydrocortisone 100 mg intravenous (if patient has allergy to Hydrocortisone, please administer Dexamethasone 4 mg intravenous) and Famotidine 20 mg intravenous once.
  9. Administer Epinephrine (1:1000) 0.3 mg subcutaneous.
  10. Assess vital signs every 15 minutes until resolution of symptoms or otherwise ordered by covering physician.

#### diphenhydramine (BENADRYL) injection 25 mg

Dose: 25 mg  
Start: S

Route: intravenous

PRN

#### fexofenadine (ALLEGRA) tablet 180 mg

Dose: 180 mg  
Start: S

Route: oral

PRN

**famotidine (PEPCID) 20 mg/2 mL injection 20 mg**

Dose: 20 mg                      Route: intravenous                      PRN  
Start: S

**hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg**

Dose: 100 mg                      Route: intravenous                      PRN

**dexamethasone (DECADRON) injection 4 mg**

Dose: 4 mg                      Route: intravenous                      PRN  
Start: S

**epINEPHrine (ADRENALIN) 1 mg/10 mL ADULT injection syringe 0.3 mg**

Dose: 0.3 mg                      Route: subcutaneous                      PRN  
Start: S

**Discharge Nursing Orders**☒ **sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL                      Route: intravenous                      PRN

☒ **HEParin, porcine (PF) injection 500 Units**

Dose: 500 Units                      Route: intra-catheter                      once PRN  
Start: S

**Instructions:**

Concentration: 100 units/mL. Heparin flush for  
Implanted Vascular Access Device  
maintenance.

**Day 2****Perform every 1 day x1****Labs**☒ **METHOTREXATE LEVEL**

Interval: Once                      Occurrences: --

☒ **PH, URINALYSIS**

Interval: Conditional                      Occurrences: --  
Frequency

Comments:                      Draw prior to starting Methotrexate and PRN until pH GREATER than 7.  
Then draw urine pH every day until MTX is LESS than 0.05

**Nursing Orders****ONC NURSING COMMUNICATION 64**

Interval: Until                      Occurrences: --  
discontinued

Comments:                      Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER  
COMPLETION of Methotrexate infusion and send STAT. Continue to  
obtain Methotrexate level every 24 hours until methotrexate level is less  
than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8  
hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate  
and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium  
bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED  
(brown bag/paper towel) going to the lab.

**Nursing Orders****sodium chloride 0.9 % infusion 250 mL**

Dose: 250 mL                      Route: intravenous                      once @ 30 mL/hr for 1 dose

Start: S  
Instructions:  
To keep vein open.

#### Pre-Medications

- ☒ **ondansetron (ZOFTRAN) 16 mg, dexamethasone (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: -- Route: intravenous once over 15 Minutes for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

| Ingredients: | Name                                              | Type        | Dose  | Selected | Adds Vol. |
|--------------|---------------------------------------------------|-------------|-------|----------|-----------|
|              | ONDANSETRON HCL (PF) 4 MG/2 ML INJECTION SOLUTION | Medications | 16 mg | Yes      | No        |
|              | DEXAMETHASONE 4 MG/ML INJECTION SOLUTION          | Medications | 12 mg | Yes      | No        |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION        | Base        | 50 mL | Always   | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION  | Base        |       | No       | Yes       |

- ☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg Route: oral once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

- ☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg Route: oral once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to chemotherapy.

- ☒ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg Route: intravenous once over 30 Minutes for 1 dose

Start: S End: S

Instructions:

Administer 30 minutes prior to chemotherapy.

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

#### Chemotherapy

**cytarabine PF (CYSTOSAR) 3,000 mg/m2 in dextrose 5% 500 mL chemo IVPB**

Dose: 3,000 mg/m2      Route: intravenous      every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

**Instructions:**

Cytarabine dosing:  
if serum creatinine GREATER than 1.5 =  
Cytarabine 1 gm.  
If age GREATER than 60 years old =  
Cytarabine 1.5 gm.

| Ingredients: | Name                                                                 | Type        | Dose           | Selected           | Adds Vol. |
|--------------|----------------------------------------------------------------------|-------------|----------------|--------------------|-----------|
|              | CYTARABINE (PF)<br>2 GRAM/20 ML (100<br>MG/ML) INJECTION<br>SOLUTION | Medications | 3,000<br>mg/m2 | Main<br>Ingredient | Yes       |
|              | SODIUM<br>CHLORIDE 0.9 %<br>INTRAVENOUS<br>SOLUTION                  | QS Base     | 500 mL         | No                 | Yes       |
|              | DEXTROSE 5 % IN<br>WATER (D5W)<br>INTRAVENOUS<br>SOLUTION            | QS Base     | 500 mL         | Yes                | Yes       |

**Chemotherapy****leucovorin IV 50 mg**

Dose: 50 mg      Route: intravenous      every 6 hours over 30 Minutes

**Instructions:**

Begin 12 hours AFTER COMPLETION of  
methotrexate infusion, and then Give every 6  
hours.

Continue every 6 hours until Methotrexate  
levels are LESS than 0.05 micromol/L.

**Intrathecal Injections****methotrexate PF 12 mg in sodium chloride  
0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 12 mg      Route: intrathecal      once over 5 Minutes for 1 dose  
Start: S      End: S

**Instructions:**

Preservative free for intrathecal use.

| Ingredients: | Name                                                          | Type        | Dose    | Selected           | Adds Vol. |
|--------------|---------------------------------------------------------------|-------------|---------|--------------------|-----------|
|              | METHOTREXATE<br>SODIUM (PF) 25<br>MG/ML INJECTION<br>SOLUTION | Medications | 12 mg   | Main<br>Ingredient | Yes       |
|              | SODIUM<br>CHLORIDE 0.9 %<br>INJECTION<br>SOLUTION             | QS Base     | 4.52 mL | Yes                | Yes       |

**Day 3****Perform every 1 day x1****Labs**☒ **METHOTREXATE LEVEL**

Interval: Once      Occurrences: --

☒ **PH, URINALYSIS**

Interval: Conditional      Occurrences: --

Frequency

Comments:      Draw prior to starting Methotrexate and PRN until pH GREATER than 7.

Then draw urine pH every day until MTX is LESS than 0.05

#### Nursing Orders

##### ONC NURSING COMMUNICATION 64

Interval: Until discontinued

Occurrences: --

Comments:

Draw methotrexate level 24 hours, 48 hours and 72 hours AFTER COMPLETION of Methotrexate infusion and send STAT. Continue to obtain Methotrexate level every 24 hours until methotrexate level is less than 0.05.

Check stat urine pH prior to starting methotrexate and then every 8 hours. If urine pH is LESS than 7, administer 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, repeat 50 mEq sodium bicarbonate and recheck in 1 hour. If still LESS than 7, call provider.

The syringe that the blood is sent to lab in needs to be COVERED (brown bag/paper towel) going to the lab.

#### Nursing Orders

##### sodium chloride 0.9 % infusion 250 mL

Dose: 250 mL

Route: intravenous

once @ 30 mL/hr for 1 dose

Start: S

Instructions:

To keep vein open.

#### Pre-Medications

##### ondansetron (ZOFRAN) 16 mg, dexamethasone

- ☒ (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

ONDANSETRON  
HCL (PF) 4 MG/2  
ML INJECTION  
SOLUTION

Medications

16 mg

Yes

No

DEXAMETHASONE  
4 MG/ML  
INJECTION  
SOLUTION

Medications

12 mg

Yes

No

SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION  
DEXTROSE 5 % IN  
WATER (D5W)  
INTRAVENOUS  
SOLUTION

Base

50 mL

Always

Yes

Base

No

Yes

- ☐ ondansetron (ZOFRAN) tablet 16 mg

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

- ☐ dexamethasone (DECADRON) tablet 12 mg

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

- ☐ aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB

Dose: 130 mg

Route: intravenous

once over 30 Minutes for 1 dose

Start: S

End: S

| Ingredients: | Name                                                 | Type        | Dose   | Selected        | Adds Vol. |
|--------------|------------------------------------------------------|-------------|--------|-----------------|-----------|
|              | APREPITANT 7.2 MG/ML INTRAVENOUS EMULSION            | Medications | 130 mg | Main Ingredient | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC) | Base        | 130 mL | Yes             | Yes       |
|              | SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)        | Base        | 130 mL | No              | Yes       |

#### Chemotherapy

##### **cytarabine PF (CYSTOSAR) 3,000 mg/m2 in dextrose 5% 500 mL chemo IVPB**

Dose: 3,000 mg/m2      Route: intravenous      every 12 hours over 120 Minutes for 2 doses  
Offset: 30 Minutes

##### Instructions:

Cytarabine dosing:  
if serum creatinine GREATER than 1.5 =  
Cytarabine 1 gm.  
If age GREATER than 60 years old =  
Cytarabine 1.5 gm.

| Ingredients: | Name                                                        | Type        | Dose        | Selected        | Adds Vol. |
|--------------|-------------------------------------------------------------|-------------|-------------|-----------------|-----------|
|              | CYTARABINE (PF) 2 GRAM/20 ML (100 MG/ML) INJECTION SOLUTION | Medications | 3,000 mg/m2 | Main Ingredient | Yes       |
|              | SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION                  | QS Base     | 500 mL      | No              | Yes       |
|              | DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION            | QS Base     | 500 mL      | Yes             | Yes       |

#### Outpatient Day 11

Perform every 1 day x1

##### Appointment Requests

##### **IR LUMBAR PUNCTURE**

Interval: --      Occurrences: --

##### Labs

##### **CSF CELL COUNT WITH DIFFERENTIAL**

Interval: --      Occurrences: --  
Comments:      Specimen to be drawn in Interventional Radiology area.

##### **PROTEIN, CSF**

Interval: --      Occurrences: --  
Comments:      Specimen to be drawn in Interventional Radiology area.

##### **GLUCOSE LEVEL, CSF**

Interval: --      Occurrences: --  
Comments:      Specimen to be drawn in Interventional Radiology area.

##### **FLOW CYTOMETRY EVALUATION**

Interval: --      Occurrences: --  
Comments:      Specimen to be drawn in Interventional Radiology area.

##### **CYTOLOGY (NON-GYNECOLOGICAL)**

**REQUEST**

Interval: --

Occurrences: --

Comments:

Specimen to be drawn in Interventional Radiology area.

**Intrathecal Injections****cytarabine PF (CYSTOSAR) 100 mg in sodium chloride 0.9% 5 mL chemo PF INTRATHECAL injection**

Dose: 100 mg

Route: intrathecal

once over 5 Minutes for 1 dose

Start: S

End: S

Instructions:

HAZARDOUS - Handle with care.

Preservative free for intrathecal use.

**Ingredients:****Name****Type****Dose****Selected****Adds Vol.**CYTARABINE (PF)  
100 MG/5 ML (20  
MG/ML) INJECTION  
SOLUTION  
SODIUM  
CHLORIDE 0.9 %  
INTRAVENOUS  
SOLUTION

Medications

100 mg

Main  
Ingredient

QS Base

Yes

Yes