

## OP CAGT CYCLOPHOSPHAMIDE / FLUDARABINE LYMPHODEPLETION – VEGAS

*Types:* ONCOLOGY TREATMENT

*Synonyms:* CAGT, CYCLOPHOSHAMIDE, CYTOXAN, MESNA, FLUDARABINE, FLUDARA, MESNEX, FLU, VEGAS

<b>Cycle 1</b>	Repeat 1 time	Cycle length: 28 days																											
<b>Day 1</b>	Perform every 1 day x1																												
Appointment Requests																													
<b>INFUSION APPOINTMENT REQUEST</b>																													
Interval: -- Occurrences: --																													
Line Flush																													
<b>sodium chloride 0.9 % flush 20 mL</b>																													
Dose: 20 mL Route: intravenous PRN																													
Start: S																													
Nursing Orders																													
<b>sodium chloride 0.9 % infusion 250 mL</b>																													
Dose: 250 mL Route: intravenous once @ 30 mL/hr for 1 dose																													
Start: S																													
Instructions: To keep vein open.																													
Hydration																													
<b>sodium chloride 0.9 % infusion</b>																													
Dose: 150 mL/hr Route: intravenous once over 6 Hours for 1 dose																													
Instructions: Start 1 hour prior to chemotherapy.																													
Pre-Medications																													
<b>ondansetron (ZOFTRAN) tablet 16 mg</b>																													
Dose: 16 mg Route: oral once for 1 dose																													
Offset: 30 Minutes																													
Instructions: Administer 30 minutes before chemotherapy.																													
Pre-Medications																													
<b>LORAZepam (ATIVAN) tablet 0.5 mg</b>																													
Dose: 0.5 mg Route: oral once for 1 dose																													
Offset: 30 Minutes																													
Instructions: Administer 30 minutes before chemotherapy.																													
Chemotherapy																													
<b>mesna (MESNEX) 250 mg/m2 in sodium chloride 0.9 % 100 mL IVPB</b>																													
Dose: 250 mg/m2 Route: intravenous once over 30 Minutes for 1 dose																													
Offset: 1 Hours																													
Instructions: Administer before Mesna/Cyclophosphamide infusion.																													
<b>Ingredients:</b>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Type</th> <th style="text-align: left;">Dose</th> <th style="text-align: left;">Selected</th> <th style="text-align: left;">Adds Vol.</th> </tr> </thead> <tbody> <tr> <td>MESNA 100 MG/ML</td> <td>Medications</td> <td>250</td> <td>Main</td> <td>Yes</td> </tr> <tr> <td>INTRAVENOUS SOLUTION</td> <td></td> <td>mg/m2</td> <td>Ingredient</td> <td></td> </tr> <tr> <td>SODIUM CHLORIDE 0.9 %</td> <td>QS Base</td> <td>100 mL</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>INTRAVENOUS SOLUTION</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Dose	Selected	Adds Vol.	MESNA 100 MG/ML	Medications	250	Main	Yes	INTRAVENOUS SOLUTION		mg/m2	Ingredient		SODIUM CHLORIDE 0.9 %	QS Base	100 mL	Yes	Yes	INTRAVENOUS SOLUTION							
Name	Type	Dose	Selected	Adds Vol.																									
MESNA 100 MG/ML	Medications	250	Main	Yes																									
INTRAVENOUS SOLUTION		mg/m2	Ingredient																										
SODIUM CHLORIDE 0.9 %	QS Base	100 mL	Yes	Yes																									
INTRAVENOUS SOLUTION																													

DEXTROSE 5 % IN QS Base No Yes  
 WATER (D5W)  
 INTRAVENOUS  
 SOLUTION

**cyclophosphamide (CYTOXAN) 500 mg/m2,  
 mesna (MESNEX) 500 mg/m2 in dextrose 5%  
 500 mL chemo IVPB**

Dose: 500 mg/m2 Route: intravenous once over 2 Hours for 1 dose  
 Offset: 1.5 Hours

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	CYCLOPHOSPHAMIDE 1 GRAM INTRAVENOUS SOLUTION	Medications	500 mg/m2	Main Ingredient	Yes
	MESNA 100 MG/ML INTRAVENOUS SOLUTION	Medications	500 mg/m2	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base	500 mL	Yes	Yes

**fludarabine (FLUDARA) 30 mg/m2 in sodium  
 chloride 0.9 % 100 mL chemo IVPB**

Dose: 30 mg/m2 Route: intravenous once over 30 Minutes for 1 dose  
 Offset: 3.5 Hours

Instructions:  
 Use within 8 hours of preparation.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	FLUDARABINE 50 MG INTRAVENOUS SOLUTION	Medications	30 mg/m2	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	100 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	100 mL	No	Yes

**mesna (MESNEX) oral solution 500 mg/m2  
 (Treatment Plan)**

Dose: 500 mg/m2 Route: oral once for 1 dose  
 Offset: 5.5 Hours

Instructions:  
 Administer TWO hours AFTER  
 Mesna/Cyclophosphamide infusion completed.

**mesna (MESNEX) oral solution 500 mg/m2  
 (Treatment Plan)**

Dose: 500 mg/m2 Route: oral once for 1 dose  
 Offset: 9.5 Hours

Instructions:  
 Administer SIX hours AFTER  
 Mesna/Cyclophosphamide infusion completed.

Supportive Care

**promethazine (PHENERGAN) injection 25 mg**

Dose: 25 mg Route: intravenous every 4 hours PRN  
 Start: S

Discharge Nursing Orders

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.

Days 2,3

Perform every 1 day x2

Appointment Requests

**INFUSION APPOINTMENT REQUEST**

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.

Hydration

**sodium chloride 0.9 % infusion**

Dose: 150 mL/hr Route: intravenous once over 6 Hours for 1 dose

Instructions:

Start 1 hour prior to chemotherapy.

Pre-Medications

**ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg Route: oral once for 1 dose  
Offset: 30 Minutes

Instructions:

Administer 30 minutes before chemotherapy.

Pre-Medications

**LORAZepam (ATIVAN) tablet 0.5 mg**

Dose: 0.5 mg Route: oral once for 1 dose  
Offset: 30 Minutes

Instructions:

Administer 30 minutes before chemotherapy.

Chemotherapy

**mesna (MESNEX) 250 mg/m2 in sodium  
chloride 0.9 % 100 mL IVPB**

Dose: 250 mg/m2 Route: intravenous once over 30 Minutes for 1 dose  
Offset: 1 Hours

Instructions:

Administer before Mesna/Cyclophosphamide  
infusion.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	MESNA 100 MG/ML	Medications	250	Main	Yes

INTRAVENOUS SOLUTION		mg/m2	Ingredient	
SODIUM CHLORIDE 0.9 %	QS Base	100 mL	Yes	Yes
INTRAVENOUS SOLUTION				
DEXTROSE 5 % IN WATER (D5W)	QS Base		No	Yes
INTRAVENOUS SOLUTION				

**cyclophosphamide (CYTOXAN) 500 mg/m2, mesna (MESNEX) 500 mg/m2 in dextrose 5% 500 mL chemo IVPB**

Dose: 500 mg/m2      Route: intravenous      once over 2 Hours for 1 dose  
Offset: 1.5 Hours

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	CYCLOPHOSPHAMIDE 1 GRAM	Medications	500 mg/m2	Main	Yes
	INTRAVENOUS SOLUTION			Ingredient	
	MESNA 100 MG/ML	Medications	500 mg/m2	Yes	Yes
	INTRAVENOUS SOLUTION				
	DEXTROSE 5 % IN WATER (D5W)	Base	500 mL	Yes	Yes
	INTRAVENOUS SOLUTION				

**fludarabine (FLUDARA) 30 mg/m2 in sodium chloride 0.9 % 100 mL chemo IVPB**

Dose: 30 mg/m2      Route: intravenous      once over 30 Minutes for 1 dose  
Offset: 3.5 Hours

Instructions:  
Use within 8 hours of preparation.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	FLUDARABINE 50 MG	Medications	30 mg/m2	Main	Yes
	INTRAVENOUS SOLUTION			Ingredient	
	SODIUM CHLORIDE 0.9 %	QS Base	100 mL	Yes	Yes
	INTRAVENOUS SOLUTION				
	DEXTROSE 5 % IN WATER (D5W)	QS Base	100 mL	No	Yes
	INTRAVENOUS SOLUTION				

**mesna (MESNEX) oral solution 500 mg/m2 (Treatment Plan)**

Dose: 500 mg/m2      Route: oral      once for 1 dose  
Offset: 5.5 Hours

Instructions:  
Administer TWO hours AFTER  
Mesna/Cyclophosphamide infusion completed.

**mesna (MESNEX) oral solution 500 mg/m2 (Treatment Plan)**

Dose: 500 mg/m2      Route: oral      once for 1 dose  
Offset: 9.5 Hours

Instructions:  
Administer SIX hours AFTER  
Mesna/Cyclophosphamide infusion completed.

**promethazine (PHENERGAN) injection 25 mg**

Dose: 25 mg                      Route: intravenous                      every 4 hours PRN  
Start: S

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.