

IP CAGT ALLOGENEIC SCT CY-TBI-CAM

Types: ONCOLOGY TREATMENT

Synonyms: CY, TBI, CAM, MESNA, CYCLO, CYTOXAN, CAMPATH, ALEMTUZUMAB, ALMETUZUMAB, BMT, CAGT, ALLOGENEIC, SCT

Transplant	Repeat 1 time		Cycle length: 90 days		
	Day -7 through -1		Perform every 1 day x1		
	Labs				
	ECG 12-LEAD				
	Interval: Daily		Occurrences: --		
	Comments:		MUST be reviewed by physician daily prior to each cyclophosphamide dose		
	URINALYSIS, AUTOMATED WITH MICROSCOPY				
	Interval: Daily		Occurrences: --		
	URINALYSIS, AUTOMATED WITH MICROSCOPY				
	Interval: Once		Occurrences: --		
	Line Flush				
	sodium chloride 0.9 % flush 20 mL				
	Dose: 20 mL		Route: intravenous	PRN	
	Start: S				
	Pre-Medications				
	ondansetron (ZOFTRAN) 16 mg, dexamethasone (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB				
	Dose: --		Route: intravenous	every 24 hours over 15 Minutes	
	Start: S				
	Instructions:				
	Administer 30 minutes prior to treatment on Days -7, -6, -5, -4, -3, -2, -1.				
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
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 treatment on Days -7					

dextrose 5% 500 mL chemo IVPB

Dose: 60 mg/kg

Route: intravenous

every 24 hours over 2 Hours for 2 doses

Offset: 1 Hours

Instructions:

Day -7, -6.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
CYCLOPHOSPHAMIDE 1 GRAM INTRAVENOUS SOLUTION	Medications	60 mg/kg	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

mesna (MESNEX) 10 mg/kg in sodium chloride**0.9% 100 mL chemo IVPB**

Dose: 10 mg/kg

Route: intravenous

every 4 hours over 30 Minutes for 12 doses

Offset: 4.5 Hours

Instructions:

Day -7, -6.

Start 4 hours after loading dose of Mesna.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
MESNA 100 MG/ML INTRAVENOUS SOLUTION	Medications	10 mg/kg	Main Ingredient	Yes
SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base	100 mL	Yes	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base	100 mL	No	Yes

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Interval: Daily

Occurrences: --

Comments:

-Monitor VS (temperature, pulse, respirations, and blood pressure) every 15 minutes during Alemtuzumab infusion and for 1 hour following completion.

-Continuous oxygen saturation monitoring during Alemtuzumab infusion and for 1 hour following completion. Keep oxygen at bedside through Day 0.

-STOP INFUSION and CONTACT MD if any of the following occur: shortness of breath, wheezing, chills, severe myalgia, hypotension, rash, or chest pain.

alemtuzumab (CAMPATH) 10 mg in sodium chloride 0.9% 100 mL IVPB

Dose: 10 mg

Route: intravenous

every 24 hours over 2 Hours for 3 doses

Start: S+1

Instructions:

Day -6, -5, -4.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
ALEMTUZUMAB 30 MG/ML INTRAVENOUS SOLUTION	Medications	10 mg	Main Ingredient	Yes
SODIUM	Base	100 mL	Yes	Yes

CHLORIDE 0.9 % INTRAVENOUS SOLUTION DEXTROSE 5 % IN Base	100 mL	No	Yes
WATER (D5W) INTRAVENOUS SOLUTION			

Nursing Orders

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Interval: Until discontinued

Occurrences: --

Comments:

Notify TMH Radiation Oncology (713-441-4800) of patient's admission and obtain time of TBI.

2-4 Gy/day for Day -4, -3, -2, -1.

Additional Orders

sodium chloride 0.9% infusion

Dose: 125 mL/hr Route: intravenous continuous

Instructions:

Max total volume infusion rate during chemotherapy = 350 mL/hr.

furosemide (LASIX) injection 20 mg

Dose: 20 mg Route: intravenous every 24 hours for 2 doses
Offset: 3 Hours

Instructions:

-Give at completion of each dose of cyclophosphamide infusion.

furosemide (LASIX) injection 20 mg

Dose: 20 mg Route: intravenous every 24 hours for 2 doses
Offset: 9 Hours

Instructions:

-Give 6 hours after above dose DAILY x 2 days.

acetaminophen (TYLENOL) tablet 650 mg

Dose: 650 mg Route: oral every 24 hours
Start: S+1

Instructions:

PREMED for ALEMTUZUMAB.

diphenhydramine (BENADRYL) injection 25 mg

Dose: 25 mg Route: intravenous every 24 hours
Start: S+1

Instructions:

PREMED for ALEMTUZUMAB.

hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg

Dose: 100 mg Route: intravenous every 24 hours
Start: S+1

Instructions:

PREMED for ALEMTUZUMAB

meperidine (DEMEROL) injection 12.5 mg

Dose: 12.5 mg Route: intravenous every 15 min PRN for 3 doses
Start: S+1

Line Flush

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL Route: intravenous PRN

Acute Graft Versus Host Prophylaxis

tacrolimus (PROGRAF) 0.02 mg/kg in sodium chloride (NON-PVC) 0.9 % 250 mL infusion

Dose: 0.02 mg/kg Route: intravenous every 24 hours over 24 Hours

Start: S+5 4:00 PM

Instructions:

Start on Day -2.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
TACROLIMUS 5 MG/ML INTRAVENOUS SOLUTION	Medications	0.02 mg/kg	Main Ingredient	No
SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)	Base	250 mL	Yes	Yes
DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC)	Base	250 mL	No	Yes

Day 0

Perform every 1 day x1

Line Flush

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL Route: intravenous PRN

Start: S

Antiemetics

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

Ingredients:

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

Pre-Medications

acetaminophen (TYLENOL) tablet 650 mg

Dose: 650 mg Route: oral once for 1 dose

Start: S

Instructions:

Premed for TRANSPLANT

diphenhydramine (BENADRYL) injection 25 mg

Dose: 25 mg Route: intravenous once for 1 dose

Start: S

Instructions:

Premed for TRANSPLANT

hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg

Dose: 100 mg Route: intravenous once for 1 dose

Instructions:

Premed for TRANSPLANT

Transplant Orders

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Interval: Once

Occurrences: --

Comments:

-Oxygen at bedside during transplantation

-Anaphylaxis precautions at bedside during transplant:

meperidine (DEMEROL) injection 12.5 mg

Dose: 12.5 mg

Route: intravenous

every 15 min PRN for 3 doses

Start: S

Instructions:

Administer every 15 minutes x 3 doses PRN
for each episode of rigors (if rigors persist, call
MD).

epINEPHrine (ADRENALIN) 1 mg/1 mL injection

0.3 mg

Dose: 0.3 mg

Route: subcutaneous

PRN

Start: S

End: S+1

diphenhydrAMINE (BENADRYL) injection 25

mg

Dose: 25 mg

Route: intravenous

PRN

Start: S

End: S+1

hydrocortisone sodium succinate

(Solu-CORTEF) injection 100 mg

Dose: 100 mg

Route: intravenous

PRN

Day 1

Perform every 1 day x1

Line Flush

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL

Route: intravenous

PRN

Start: S

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

SOLUTION

SODIUM

Base

50 mL

Always

Yes

CHLORIDE 0.9 %

INTRAVENOUS

SOLUTION

DEXTROSE 5 % IN Base

No

Yes

WATER (D5W)

INTRAVENOUS

SOLUTION

Antiemetics

ondansetron ODT (ZOFTRAN-ODT)

disintegrating tablet 8 mg

Dose: 8 mg

Route: oral

every 8 hours PRN

Start: S+1

Instructions:

Start Day +2

Post-Transplant Orders

ONC NURSING COMMUNICATION 56

Interval: Once

Occurrences: --

Comments:

-Oxygen at bedside 24 hours after transplantation

-Anaphylaxis precautions at bedside 24 hours after transplant:

meperidine (DEMEROL) injection 12.5 mg

Dose: 12.5 mg

Route: intravenous

every 15 min PRN for 3 doses

Start: S

Instructions:

Administer every 15 minutes x 3 doses PRN
for each episode of rigors (if rigors persist, call
MD).

**epINEPHrine (ADRENALIN) 1 mg/1 mL injection
0.3 mg**

Dose: 0.3 mg

Route: subcutaneous

PRN

Start: S

End: S+1

**diphenhydrAMINE (BENADRYL) injection 25
mg**

Dose: 25 mg

Route: intravenous

PRN

Start: S

End: S+1

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

Dose: 100 mg

Route: intravenous

PRN