

IP CAGT ALLOGENEIC SCT CY-TBI

Types: ONCOLOGY TREATMENT

Synonyms: CY, TBI, MESNA, CYCLO, CYTOXAN, METHO, MTX, 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 Comments:		Occurrences: -- 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 Start: S		Route: intravenous PRN	
	Pre-Medications			
	ondansetron (ZOFTRAN) 16 mg, dexamethasone (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB Dose: -- Start: S Instructions: Administer 30 minutes prior to treatment on Days -7, -6, -5, -4, -3, -2, -1.		Route: intravenous every 24 hours over 15 Minutes	

APREPITANT 7.2 MG/ML INTRA- VENOUS 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

Antiemetics

promethazine (PHENERGAN) injection 25 mg

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

Supportive Care

acyclovir (ZOVIRAX) 5 mg/kg (Ideal)

Dose: 5 mg/kg Route: intravenous every 8 hours
Start: S

levoFLOXacin (LEVAQUIN) tablet 500 mg

Dose: 500 mg Route: oral daily at 0600 (time critical)
Start: S

fluconazole (DIFLUCAN) tablet 200 mg

Dose: 200 mg Route: oral daily
Start: S

Chemotherapy

ONC NURSING COMMUNICATION 7

Interval: Until discontinued

Occurrences: --

Comments:

During CYCLOPHOSPHAMIDE:

-12 lead EKG must be ordered and reviewed by physician prior to each dose.

-Starting 4 hours PRIOR to cyclophosphamide, start Normal Saline at 125 mL/hr and continue for 24 hours after last dose of cyclophosphamide completes. (MAX total volume infusion rate during chemotherapy = 350 mL/hr).

-Instruct patient to void every 1-2 hours DAILY x 3 days.

-Urinalysis DAILY x 4 days.

mesna (MESNEX) 20 mg/kg in sodium chloride

0.9% 100 mL chemo IVPB

Dose: 20 mg/kg Route: intravenous once over 30 Minutes for 1 dose
Start: S

Instructions:

Day -7.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
MESNA 100 MG/ML INTRA- VENOUS SOLUTION	Medications	20 mg/kg	Main Ingredient	Yes
SODIUM CHLORIDE 0.9 % INTRA- VENOUS SOLUTION	Base	100 mL	Yes	Yes
DEXTROSE 5 % IN WATER (D5W) INTRA- VENOUS SOLUTION	Base	100 mL	No	Yes

cyclophosphamide (CYTOXAN) 60 mg/kg in dextrose 5% 500 mL chemo IVPB

Dose: 60 mg/kg Route: intravenous every 24 hours over 2 Hours for 2 doses

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

Start: S

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

Nursing Orders

ONC NURSING COMMUNICATION 40

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
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

Offset: 9 Hours

Instructions:

-Give 6 hours after above dose DAILY x 2 days

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

No

Ingredient

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

Base

250 mL

Yes

Yes

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

No

Ingredient

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

Base

50 mL

No

Yes

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

ONC NURSING COMMUNICATION 55

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 through 11

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 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)	Base		No	Yes

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

Acute Graft Versus Host Prophylaxis

**methotrexate PF 5 mg/m2 in sodium chloride
0.9% 50 mL chemo IVPB**

Dose: 5 mg/m2 Route: intravenous once over 15 Minutes for 1 dose
Start: S
Instructions:
HOLD UNTIL APPROVED BY CAGT.

Day +1.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION	Medications	5 mg/m2	Main Ingredient	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	No	Yes
SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes

**methotrexate PF 5 mg/m2 in sodium chloride
0.9% 50 mL chemo IVPB**

Dose: 5 mg/m2 Route: intravenous once over 15 Minutes for 1 dose

Start: S+2
Instructions:
HOLD UNTIL APPROVED BY CAGT.

Day +3.					
Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION	Medications	5 mg/m2	Main Ingredient	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	No	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes

methotrexate PF 5 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB

Dose: 5 mg/m2 Route: intravenous once over 15 Minutes for 1 dose
Start: S+5
Instructions:
HOLD UNTIL APPROVED BY CAGT.

Day +6.					
Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION	Medications	5 mg/m2	Main Ingredient	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	No	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes

methotrexate PF 5 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB

Dose: 5 mg/m2 Route: intravenous once over 15 Minutes for 1 dose
Start: S+10
Instructions:
HOLD UNTIL APPROVED BY CAGT.

Day +11.					
Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION	Medications	5 mg/m2	Main Ingredient	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	50 mL	No	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	50 mL	Yes	Yes