

IP CAGT AUTOLOGOUS SCT IV BEAM

Types: ONCOLOGY TREATMENT

Synonyms: BEAM, CARMUSTINE, BICNU, CYTARABINE, ARAC, VP16, ETOPOSIDE, MELPHALAN, ALKERAN, BMT, CAGT, AUTOLOGOUS, SCT

Transplant	Repeat 1 time	Cycle length: 90 days
Day -6 through -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		
OLANzapine (ZYPREXA) tablet 10 mg Dose: 10 mg Route: oral daily for 9 doses Start: S Instructions: Day -6 through Day +2		
ondansetron (ZOFRAN) tablet 16 mg Dose: 16 mg Route: oral once for 1 dose Start: S Instructions: Day -6 prior to Carmustine		
dexamethasone (DECADRON) tablet 12 mg Dose: 12 mg Route: oral daily for 6 doses Start: S Instructions: Day -6 through Day -1		
ondansetron (ZOFRAN) tablet 8 mg Dose: 8 mg Route: oral every 8 hours for 24 doses Start: S+1 Instructions: Day -5 through Day +2		
Supportive Care		
acyclovir (ZOVIRAX) tablet 800 mg Dose: 800 mg Route: oral daily Start: S		
fluconazole (DIFLUCAN) tablet 200 mg Dose: 200 mg Route: oral daily Start: S		
levoFLOXacin (LEVAQUIN) tablet 500 mg Dose: 500 mg Route: oral daily at 0600 (time critical) Start: S+9 Instructions: Start Day +3		
Chemotherapy		
<input checked="" type="checkbox"/> carmustine (BiCNU) 300 mg/m2 in dextrose (NON-PVC) 5% 500 mL chemo IVPB Dose: 300 mg/m2 Route: intravenous once over 2 Hours for 1 dose Start: S End: S 8:30 AM Instructions: Day -6 Protect from light		
Ingredients:	Name CARMUSTINE 100	Type Medications Dose 300 Selected Main Adds Vol. Yes

MG INTRAVENOUS SOLUTION
 DEXTROSE 5 % IN QS Base 500 mL Yes Yes
 WATER (D5W) IV
 SOLP (EXCEL;
 NON-PVC)

cytarabine PF (CYSTOSAR) 200 mg/m2 in dextrose 5% 100 mL chemo IVPB

Dose: 200 mg/m2 Route: intravenous every 12 hours over 30 Minutes for 8 doses

Start: S+1

Instructions:

Day -5, -4, -3, -2

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
CYTARABINE (PF) 100 MG/5 ML (20 MG/ML) INJECTION SOLUTION	Medications	200 mg/m2	Main Ingredient	Yes
SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	100 mL	No	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	100 mL	Yes	Yes

Additional Orders

VITAL SIGNS - T/P/R/BP

Interval: Per unit protocol

Occurrences: --

Comments:

During Etoposide infusion:

-Every 15 minutes during 1st hour of infusion, THEN

-Every 30 minutes for 1 hour, THEN

-May return to routine VS until end of infusion

-If SBP is less than 90 or greater than 160, call MD and slow infusion rate to HALF PREVIOUS RATE for completion of infusion

Chemotherapy

etoposide (TOPOSAR) 200 mg/m2 in sodium chloride (NON-PVC) 0.9 % 1,000 mL chemo IVPB

Dose: 200 mg/m2 Route: intravenous every 12 hours over 3 Hours for 8 doses

Start: S+1

Instructions:

Day -5, -4, -3, -2.

Administer through a 0.22 micron filter and non-PVC tubing set.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
ETOPOSIDE 20 MG/ML INTRAVENOUS SOLUTION	Medications	200 mg/m2	Main Ingredient	Yes
SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)	QS Base	1,000 mL	Yes	Yes

etoposide phosphate (ETOPOPHOS) 200 mg/m2 in sodium chloride 0.9% 500 mL chemo IVPB

Dose: 200 mg/m2 Route: intravenous every 24 hours over 3.5 Hours for 4 doses
 Start: S+1
 Instructions:
 Administer in place of Etoposide.

Day -5, -4, -3, -2.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	ETOPOSIDE	Medications	200	Main	Yes
	PHOSPHATE 100		mg/m2	Ingredient	
	MG INTRAVENOUS SOLUTION				
	SODIUM CHLORIDE 0.9 %	QS Base	500 mL	Yes	Yes
	INTRAVENOUS SOLUTION				
	DEXTROSE 5 % IN WATER (D5W)	QS Base		No	Yes
	INTRAVENOUS SOLUTION				

ONC NURSING COMMUNICATION 47

Interval: Once Occurrences: --
 Comments: Begin Melphalan infusion NO later than 10:00 am.

Additional Orders

ONC NURSING COMMUNICATION 25

Interval: Once Occurrences: --
 Comments: Provide ice chips and / or popsicles to patient 30 minutes prior, during and for 30 minutes following Melphalan infusion.

Chemotherapy

melphalan HCL (ALKERAN) 140 mg/m2 in sodium chloride 0.9% 250 mL chemo IVPB

Dose: 140 mg/m2 Route: intravenous once over 15 Minutes for 1 dose
 Start: S+5 9:00 AM
 Instructions:
 Day -1.

Infuse within 60 minutes from vial reconstitution.

DO NOT begin infusion after 10AM.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	MELPHALAN 50	Medications	140	Main	Yes
	MG INTRAVENOUS SOLUTION		mg/m2	Ingredient	
	SODIUM CHLORIDE 0.9 %	QS Base	250 mL	Yes	Yes
	INTRAVENOUS SOLUTION				

Medications

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

Dose: 2 drop Route: Both Eyes 4 times daily
 Start: S+1
 Instructions:
 Days -5, -4, -3, -2, -1.

Line Flush

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL Route: intravenous PRN

Day 0

Perform every 1 day x1

Line Flush

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL Route: intravenous PRN
Start: S

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

Medications

prednisolone acetate (PRED FORTE) 1 % ophthalmic suspension 2 drop

Dose: 2 drop Route: Both Eyes 4 times daily
Start: S

Day 1

Perform every 1 day x1

Line Flush

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL Route: intravenous PRN
Start: S

Antiemetics

**ondansetron ODT (ZOFTRAN-ODT)
disintegrating tablet 8 mg**
Dose: 8 mg Route: oral every 8 hours PRN
Start: S+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