

IP CAGT AUTOLOGOUS SCT IV BEAM-R

Types: ONCOLOGY TREATMENT

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

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		
Antiemetics		
promethazine (PHENERGAN) injection 25 mg Dose: 25 mg Route: intravenous every 4 hours PRN Start: S		
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		
Hydration		
sodium chloride 0.9 % infusion 250 mL Dose: 250 mL Route: intravenous once @ 30 mL/hr for 1 dose Start: S Instructions: Hydration for Rituximab on Day -6.		
Rituximab Pre-Medications		

acetaminophen (TYLENOL) tablet 650 mg

Dose: 650 mg Route: oral once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to Rituximab on Day -6.

diphenhydrAMINE (BENADRYL) injection 25 mg

Dose: 25 mg Route: intravenous once for 1 dose

Start: S

Instructions:

Administer 30 minutes prior to Rituximab on Day -6.

Rituximab Instructions

VITAL SIGNS - T/P/R/BP PER UNIT PROTOCOLInterval: Until Occurrences: --
discontinued

Comments:

- 1) During Rituximab infusion:
 -Vitals every 15 minutes during 1st hour of infusion, THEN
 -Every 30 minutes for 1 hour, THEN
 -Every hour until end of infusion
 -Call MD if SBP less than 90, pulse less than 60 or greater than 120, temperature greater than 38.5 degrees C

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discontinued

Comments:

- 2) Infuse antibody via pump
 3) If any of the following occurs: FEVER (temperature greater than 38.5 degrees Celsius), RIGORS, HYPOTENSION (30mm Hg decrease from baseline), and/or MUCOSAL CONGESTION / EDEMA, HOLD infusion until improvement of symptoms (When symptoms improve, resume infusion at HALF the previous rate)

Chemotherapy

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:

Carmustine infusion must be given PRIOR to starting Rituxan infusion.

Day -6.

Protect from light.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
CARMUSTINE 100 MG INTRAVENOUS SOLUTION	Medications	300 mg/m2	Main Ingredient	Yes
DEXTROSE 5 % IN WATER (D5W) IV SOLP (EXCEL; NON-PVC)	QS Base	500 mL	Yes	Yes

RiTUXimab (PF) (RITUXAN) 375 mg/m2 in sodium chloride 0.9% IVPBDose: 375 mg/m2 Route: intravenous once for 1 dose
Offset: 2.5 Hours

Instructions:

Day -6.

Infusion rate: Start rate of 50 mL/hour for one hour; THEN increase the rate by 50 mL/hour for 30 minutes; if SBP with 20 mmHG baseline, PULSE between 60 and 120 and TEMP less than 38 degrees C, THEN increase rate in 50 mL/hour increments every 30 minutes (if VS as noted earlier), to a maximum rate of 400 mL/hour.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RITUXIMAB 10 MG/ML CONCENTRATE, IN TRAVENOUS SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Medications	375 mg/m2	Main Ingredient	No
		Base		Yes	Yes

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

VITAL SIGNS - T/P/R/BP

Interval: Per unit Occurrences: --
protocol

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

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	Medications	200 mg/m2	Main Ingredient	Yes

SOLUTION
SODIUM QS Base 1,000 mL Yes Yes
CHLORIDE 0.9 % IV
SOLP
(EXCEL;NON-PVC)

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

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

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.

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

Supportive Care

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.

Rituximab Additional Orders

meperidine (DEMEROL) injection 12.5 mg

Dose: 12.5 mg Route: intravenous every 15 min PRN for 3 doses

Start: S

epINEPhrine (ADRENALIN) 1 mg/1 mL injection 0.3 mg

Dose: 0.3 mg Route: subcutaneous PRN

Start: S

diphenhydrAMINE (BENADRYL) injection 25 mg

Dose: 25 mg Route: intravenous PRN

Start: S

hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg

Dose: 100 mg Route: intravenous PRN

famotidine (PEPCID) injection 20 mg

Dose: 20 mg Route: intravenous once for 1 dose

Start: S

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

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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

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 (ZOFRAN-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