

OP CAGT AUTOLOGOUS SCT IV RITUXIMAB (BEAM-R)

Types: ONCOLOGY TREATMENT

Synonyms: BEAM, BEAM-R, BMT, CAGT, AUTOLOGOUS, SCT, RITUXIMAB, RITUXAN

Cycle 1	Repeat 1 time	Cycle length: 21 days
Day +14 Perform every 1 day x1		
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
Instructions: To keep vein open.		
Rituximab Pre-Medications		
acetaminophen (TYLENOL) tablet 650 mg		
Dose: 650 mg	Route: oral	once for 1 dose
Start: S		
diphenhydrAMINE (BENADRYL) injection 25 mg		
Dose: 25 mg	Route: intravenous	once for 1 dose
Start: S		
Chemotherapy		
RiTUXimab (PF) (RITUXAN) 375 mg/m2 in		
<input type="radio"/> sodium chloride 0.9% INITIAL INFUSION RATE IVPB		
Dose: 375 mg/m2	Route: intravenous	once for 1 dose
Offset: 60 Minutes		
Instructions: Initiate infusion at rate of 50 mg/hour. In the absence of infusion toxicity (SBP within 20 mmHG of baseline, PULSE between 60 and 120 and TEMP less than 38 degrees C, and no symptoms), then increase infusion rate by 50 mg/hour every 30 minutes, to a maximum rate of 400 mg/hour.		
Ingredients:	Name	Type
	RITUXIMAB 10 MG/ML CONCENTRATE, INTRAVENOUS	Medications
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base
		Dose
		375 mg/m2
		Selected
		Main
		Ingredient
		Adds Vol.
		Yes
		Yes
		No
		Yes
<input checked="" type="radio"/> RiTUXimab (PF) (RITUXAN) in sodium chloride 0.9% NON-INITIAL INFUSION IVPB		
Dose: --	Route: intravenous	once for 1 dose
Offset: 60 Minutes		

Instructions:

Initiate infusion rate at a 100 mg/hour. In the absence of infusion toxicity (SBP within 20 mmHG of baseline, PULSE between 60 and 120 and TEMP less than 38 degrees C, and no symptoms), increase rate by 100 mg/hour increments at 30 minute intervals, to a maximum rate of 400 mg/hour.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RITUXIMAB 10 MG/ML CONCENTRATE, INTRAVENOUS SOLUTION	Medications		Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base		Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base		No	Yes

RiTUXImab (PF) (RITUXAN) 375 mg/m2 in sodium chloride 0.9% 250 mL RAPID INFUSION RATE IVPB

Dose: 375 mg/m2 Route: intravenous once over 90 Minutes for 1 dose
Offset: 60 Minutes

Instructions:

RAPID INFUSION RATE: Initiate infusion at a rate of 100mL/hour. After 30 minutes, in the absence of infusion reactions (SBP within 20 mmHg of baseline, PULSE between 60 and 120 and Temp less than 38 degrees C, and no symptoms), increase the infusion rate to 200mL/hour. This infusion should take 90 minutes to administer.

Reaction grades:

Grade 3 Reaction: Prolonged (e.g., not rapidly responsive to symptomatic medication and/or brief interruption of infusion); recurrence of symptoms following initial improvement; hospitalization indicated for clinical sequelae (e.g., renal impairment, pulmonary infiltrates).

Grade 4 Reaction: Life-threatening consequences; urgent intervention indicated (e.g., vasopressors or ventilator support).

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RITUXIMAB 10 MG/ML CONCENTRATE, INTRAVENOUS SOLUTION	Medications	375 mg/m2	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	250 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base		No	Yes

Rituximab Instructions**VITAL SIGNS - T/P/R/BP PER UNIT PROTOCOL**

Interval: -- Occurrences: --
 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

ONC NURSING COMMUNICATION 26

Interval: -- Occurrences: --
 Comments: 2) Infuse antibody via pump
 3) If any of the following occurs: FEVER (T greater than 38.5 degrees C), 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)

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 for 1 dose
 Start: S

diphenhydrAMINE (BENADRYL) injection 25 mg

Dose: 25 mg Route: intravenous PRN for 1 dose
 Start: S

hydrocortisone sodium succinate (Solu-CORTEF) injection 100 mg

Dose: 100 mg Route: intravenous PRN for 1 dose

Line Flush**sodium chloride 0.9 % flush 20 mL**

Dose: 20 mL Route: intravenous PRN

Day +21

Perform every 1 day x1

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

Instructions:
 To keep vein open.

Pharmacy Consult**PHARMACY CONSULT TO SCREEN FOR RAPID RITUXIMAB INFUSION**

Interval: -- Occurrences: --

Rituximab Pre-Medications**acetaminophen (TYLENOL) tablet 650 mg**

Dose: 650 mg Route: oral once for 1 dose

Start: S

diphenhydrAMINE (BENADRYL) injection 25 mg

Dose: 25 mg Route: intravenous once for 1 dose
Start: S

Chemotherapy

RiTUXimab (PF) (RITUXAN) 375 mg/m2 in

- sodium chloride 0.9% INITIAL INFUSION RATE IVPB**

Dose: 375 mg/m2 Route: intravenous once for 1 dose
Offset: 60 Minutes

Instructions:

Initiate infusion at rate of 50 mg/hour. In the absence of infusion toxicity (SBP within 20 mmHG of baseline, PULSE between 60 and 120 and TEMP less than 38 degrees C, and no symptoms), then increase infusion rate by 50 mg/hour every 30 minutes, to a maximum rate of 400 mg/hour.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RITUXIMAB 10 MG/ML CONCENTRATE, INTRAVENOUS	Medications	375 mg/m2	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base		Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base		No	Yes

- RiTUXimab (PF) (RITUXAN) in sodium chloride 0.9% NON-INITIAL INFUSION IVPB**

Dose: -- Route: intravenous once for 1 dose
Offset: 60 Minutes

Instructions:

Initiate infusion rate at a 100 mg/hour. In the absence of infusion toxicity (SBP within 20 mmHG of baseline, PULSE between 60 and 120 and TEMP less than 38 degrees C, and no symptoms), increase rate by 100 mg/hour increments at 30 minute intervals, to a maximum rate of 400 mg/hour.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RITUXIMAB 10 MG/ML CONCENTRATE, INTRAVENOUS	Medications		Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base		Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base		No	Yes

RiTUXimab (PF) (RITUXAN) 375 mg/m2 in

- sodium chloride 0.9% 250 mL RAPID INFUSION RATE IVPB**

Dose: 375 mg/m² Route: intravenous once over 90 Minutes for 1 dose
Offset: 60 Minutes

Instructions:

RAPID INFUSION RATE: Initiate infusion at a rate of 100mL/hour. After 30 minutes, in the absence of infusion reactions (SBP within 20 mmHg of baseline, PULSE between 60 and 120 and Temp less than 38 degrees C, and no symptoms), increase the infusion rate to 200mL/hour. This infusion should take 90 minutes to administer.

Reaction grades:

Grade 3 Reaction: Prolonged (e.g., not rapidly responsive to symptomatic medication and/or brief interruption of infusion); recurrence of symptoms following initial improvement; hospitalization indicated for clinical sequelae (e.g., renal impairment, pulmonary infiltrates).

Grade 4 Reaction: Life-threatening consequences; urgent intervention indicated (e.g., vasopressors or ventilator support).

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RITUXIMAB 10 MG/ML CONCENTRATE, INTRAVENOUS	Medications	375 mg/m ²	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	250 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base		No	Yes

Rituximab Instructions

VITAL SIGNS - T/P/R/BP PER UNIT PROTOCOL

Interval: Until discontinued

Occurrences: --

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

ONC NURSING COMMUNICATION 26

Interval: Until discontinued

Occurrences: --

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)

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 for 1 dose
Start: S

**diphenhydrAMINE (BENADRYL) injection 25
mg**

Dose: 25 mg Route: intravenous PRN for 1 dose
Start: S

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

Dose: 100 mg Route: intravenous PRN for 1 dose

Line Flush

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL Route: intravenous PRN

Day +28

Perform every 1 day x1

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

Instructions:
To keep vein open.

Pharmacy Consult

**PHARMACY CONSULT TO SCREEN FOR
RAPID RITUXIMAB INFUSION**

Interval: -- Occurrences: --

Rituximab Pre-Medications

acetaminophen (TYLENOL) tablet 650 mg

Dose: 650 mg Route: oral once for 1 dose
Start: S

**diphenhydrAMINE (BENADRYL) injection 25
mg**

Dose: 25 mg Route: intravenous once for 1 dose
Start: S

Chemotherapy

RiTUXImab (PF) (RITUXAN) 375 mg/m2 in

**sodium chloride 0.9% INITIAL INFUSION RATE
IVPB**

Dose: 375 mg/m2 Route: intravenous once for 1 dose
Offset: 60 Minutes

Instructions:
Initiate infusion at rate of 50 mg/hour. In the absence of infusion toxicity (SBP within 20 mmHG of baseline, PULSE between 60 and 120 and TEMP less than 38 degrees C, and no symptoms), then increase infusion rate by 50 mg/hour every 30 minutes, to a maximum rate of 400 mg/hour.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
RITUXIMAB 10 MG/ML	Medications	375 mg/m2	Main	Yes
			Ingredient	

CONCENTRATE, IN TRAVENOUS SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base	Yes	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base	No	Yes

RiTUXimab (PF) (RITUXAN) in sodium chloride 0.9% NON-INITIAL INFUSION IVPB

Dose: -- Route: intravenous once for 1 dose
Offset: 60 Minutes

Instructions:

Initiate infusion rate at a 100 mg/hour. In the absence of infusion toxicity (SBP within 20 mmHG of baseline, PULSE between 60 and 120 and TEMP less than 38 degrees C, and no symptoms), increase rate by 100 mg/hour increments at 30 minute intervals, to a maximum rate of 400 mg/hour.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RITUXIMAB 10 MG/ML	Medications		Main Ingredient	Yes
	CONCENTRATE, IN TRAVENOUS SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base		Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base		No	Yes

RiTUXimab (PF) (RITUXAN) 375 mg/m2 in sodium chloride 0.9% 250 mL RAPID INFUSION RATE IVPB

Dose: 375 mg/m2 Route: intravenous once over 90 Minutes for 1 dose
Offset: 60 Minutes

Instructions:

RAPID INFUSION RATE: Initiate infusion at a rate of 100mL/hour. After 30 minutes, in the absence of infusion reactions (SBP within 20 mmHg of baseline, PULSE between 60 and 120 and Temp less than 38 degrees C, and no symptoms), increase the infusion rate to 200mL/hour. This infusion should take 90 minutes to administer.

Reaction grades:

Grade 3 Reaction: Prolonged (e.g., not rapidly responsive to symptomatic medication and/or brief interruption of infusion); recurrence of symptoms following initial improvement; hospitalization indicated for clinical sequelae (e.g., renal impairment, pulmonary infiltrates).

Grade 4 Reaction: Life-threatening consequences: urgent intervention indicated

(e.g., vasopressors or ventilator support).

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	RITUXIMAB 10 MG/ML CONCENTRATE, IN TRAVENOUS	Medications	375 mg/m2	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	250 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base		No	Yes

Rituximab Instructions

VITAL SIGNS - T/P/R/BP PER UNIT PROTOCOL

Interval: --

Occurrences: --

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

ONC NURSING COMMUNICATION 26

Interval: --

Occurrences: --

Comments:

2) Infuse antibody via pump

3) If any of the following occurs: FEVER (T greater than 38.5 degrees C), 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)

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 for 1 dose

Start: S

diphenhydrAMINE (BENADRYL) injection 25

mg

Dose: 25 mg

Route: intravenous

PRN for 1 dose

Start: S

hydrocortisone sodium succinate

(Solu-CORTEF) injection 100 mg

Dose: 100 mg

Route: intravenous

PRN for 1 dose

Line Flush

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL

Route: intravenous

PRN