

IP MVAC (DOSE DENSE)

Types: ONCOLOGY TREATMENT

Synonyms: DD MVAC, METHOTREXATE , VINBLASTINE , DOXORUBICIN, CISPLATIN, VELBAN, ADRIAMYCIN, PLATINOL, SIS, AGE, BLADDER

Cycle 1	Repeat 1 time	Cycle length: 14 days
Day 1 Perform every 1 day x1		
Labs		
<input checked="" type="checkbox"/>	COMPREHENSIVE METABOLIC PANEL	Interval: Once Occurrences: --
<input checked="" type="checkbox"/>	CBC WITH PLATELET AND DIFFERENTIAL	Interval: Once Occurrences: --
<input checked="" type="checkbox"/>	MAGNESIUM LEVEL	Interval: Once Occurrences: --
<input type="checkbox"/>	ZZ_HIST_NM CARDIAC BLOOD POOL MUGA (AT REST)	Interval: 1 time imaging Occurrences: --
<input type="checkbox"/>	ECHOCARDIOGRAM COMPLETE W CONTRAST AND 3D IF NEEDED	Interval: -- Occurrences: --
<input type="checkbox"/>	ZZ_HIST_MRI CARDIAC FOR MORPH W	Interval: 1 time imaging Occurrences: --
Provider Communication		
	ONC PROVIDER COMMUNICATION	Interval: Once Occurrences: --
	Comments:	Verify Ejection Fraction prior to Cycle 1. Ejection Fraction: ***% on *** (date).
		If patient has not had a recent MUGA or ECHO, order one via order entry. A baseline cardiac evaluation with a MUGA scan or an ECHO is recommended, especially in patients with risk factors for increased cardiac toxicity. Repeated MUGA or ECHO determinations of LVEF should be performed, particularly with higher, cumulative anthracycline doses.
Nursing Orders		
	TREATMENT CONDITIONS 7	Interval: Until discontinued Occurrences: --
	Comments:	HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000.
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
	Start: S	
	Instructions:	

To keep vein open.

Pre-Hydration

sodium chloride 0.9 % infusion 1,000 mL

Dose: 1,000 mL Route: intravenous once @ 250 mL/hr for 1 dose

Instructions:
Hydration should be administered prior to chemotherapy.

Pre-Medications

ondansetron (ZOFRAN) injection 8 mg

Dose: 8 mg Route: intravenous once for 1 dose
Start: S End: S 11:15 AM

ondansetron (ZOFRAN) tablet 16 mg

Dose: 16 mg Route: oral once for 1 dose
Start: S

ondansetron (ZOFRAN) 16 mg in dextrose 5% 50 mL IVPB

Dose: 16 mg Route: intravenous once over 15 Minutes for 1 dose
Start: S End: S 11:00 AM

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	Always	Yes

Chemotherapy

methotrexate PF 30 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB

Dose: 30 mg/m2 Route: intravenous once over 15 Minutes for 1 dose
Offset: 4 Hours

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	METHOTREXATE SODIUM (PF) 25 MG/ML INJECTION SOLUTION	Medications	30 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

Discharge Nursing Orders

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL Route: intravenous PRN

HEParin, porcine (PF) injection 500 Units

Dose: 500 Units Route: intra-catheter once PRN
Start: S

Instructions:
Concentration: 100 units/mL. Heparin flush for

Implanted Vascular Access Device maintenance.

Day 2

Perform every 1 day x1

Labs

COMPREHENSIVE METABOLIC PANEL

Interval: Once Occurrences: --

CBC WITH PLATELET AND DIFFERENTIAL

Interval: Once Occurrences: --

MAGNESIUM LEVEL

Interval: Once Occurrences: --

ZZ_HIST_NM CARDIAC BLOOD POOL MUGA (AT REST)

Interval: 1 time imaging Occurrences: --

ECHOCARDIOGRAM COMPLETE W CONTRAST AND 3D IF NEEDED

Interval: -- Occurrences: --

ZZ_HIST_MRI CARDIAC FOR MORPH W

Interval: 1 time imaging Occurrences: --

Provider Communication

ONC PROVIDER COMMUNICATION

Interval: Until discontinued Occurrences: --

Comments: Verify Ejection Fraction prior to Cycle 1. Ejection Fraction: ***% on *** (date).

If patient has not had a recent MUGA or ECHO, order one via order entry. A baseline cardiac evaluation with a MUGA scan or an ECHO is recommended, especially in patients with risk factors for increased cardiac toxicity. Repeated MUGA or ECHO determinations of LVEF should be performed, particularly with higher, cumulative anthracycline doses.

Provider Communication

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Interval: Once Occurrences: --

Comments: Please order Growth Factor to begin on Day 2, if indicated.

If patient will be discharged, consider using Neulasta Therapy Plan for Outpatient use.

Nursing Orders

TREATMENT CONDITIONS 7

Interval: Until discontinued Occurrences: --

Comments: HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000.

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

Start: S
 Instructions:
 To keep vein open.

Pre-Hydration

sodium chloride 0.9 % infusion 1,000 mL
 Dose: 1,000 mL Route: intravenous once @ 250 mL/hr for 1 dose

Instructions:
 Hydration should be administered prior to chemotherapy.

Antiemetics

ondansetron (ZOFRAN) 16 mg, dexamethasone (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB
 Dose: -- Route: intravenous once over 15 Minutes for 1 dose

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

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	APREPITANT 7.2 MG/ML INTRAVENOUS 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

Chemotherapy

vinBLASTine (VELBAN) 3 mg/m2 in sodium chloride 0.9 % 50 mL chemo IVPB
 Dose: 3 mg/m2 Route: intravenous once over 15 Minutes for 1 dose
 Offset: 4.5 Hours

Instructions:
 FOR IV USE ONLY. Fatal if given intrathecally. Protect from light, VESICANT. Administer on Day 2.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
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VINBLASTINE 1 MG/ML INTRAVENOUS SOLUTION	Medications	3 mg/m2	Main Ingredient	Yes
SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base	50 mL	Yes	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base	50 mL	No	Yes

Chemotherapy

DOXOrubicin (ADRIAmycin) 30 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB

Dose: 30 mg/m2 Route: intravenous once over 15 Minutes for 1 dose
Offset: 5 Hours

Instructions:
Protect from light; Vesicant. Administer on Day 2.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	DOXORUBICIN 50 MG/25 ML INTRAVENOUS SOLUTION	Medications	30 mg/m2	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base	50 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base	50 mL	No	Yes

Chemotherapy

CISplatin (PLATINOL) 70 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB

Dose: 70 mg/m2 Route: intravenous once over 2 Hours for 1 dose
Offset: 5.5 Hours

Instructions:
Administer on Day 2.

Ingredients:	Name	Type	Dose	Selected	Adds Vol.
	CISPLATIN 1 MG/ML INTRAVENOUS SOLUTION	Medications	70 mg/m2	Main Ingredient	Yes
	SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	500 mL	Yes	Yes
	DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base		No	Yes

Post-Hydration

sodium chloride 0.9 % 1,000 mL with potassium chloride 20 mEq, magnesium sulfate 2 g, mannitol 25 % 25 g infusion

Dose: -- Route: intravenous once @ 250 mL/hr for 1 dose
Offset: 7.5 Hours

Instructions:

Following chemotherapy on Day 2.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base	1,000 mL	No	Yes

sodium chloride 0.9 % 1,000 mL infusion

Dose: -- Route: intravenous once @ 250 mL/hr over 4 Hours for 1 dose
Offset: 7.5 Hours

Instructions:

Following chemotherapy on Day 2.

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base	1,000 mL	No	Yes

Discharge Nursing Orders

sodium chloride 0.9 % flush 20 mL

Dose: 20 mL

Route: intravenous

PRN

HEParin, porcine (PF) injection 500 Units

Dose: 500 Units

Route: intra-catheter

once PRN

Start: S

Instructions:

Concentration: 100 units/mL. Heparin flush for
Implanted Vascular Access Device
maintenance.