

IP VAC (ALTERNATING WITH IE)

Types: ONCOLOGY TREATMENT

Synonyms: ETOPOSIDE, VP16, IFOS, IFEX, SARCOMA, MESNA, GYN, IFEX, IFOSFAMIDE, CYCLOPHOSPHAMIDE, CYTOXAN, VINCRISTINE, DOXORUBICIN, DACTINOMYCIN, COSMEGEN, ADRIAMYCIN

Cycle 1 (VAC)		Repeat 1 time		Cycle length: 21 days	
Day 1		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: --		
	☐	LDH			
		Interval: Once	Occurrences: --		
	☐	URIC ACID LEVEL			
	Interval: Once	Occurrences: --			
☐	URINALYSIS, AUTOMATED WITH MICROSCOPY				
	Interval: Once	Occurrences: --			
Nursing Orders					
	TREATMENT CONDITIONS 7				
	Interval: Until discontinued	Occurrences: --			
	Comments:	HOLD and notify provider if ANC LESS than 1000; Platelets LESS than 100,000.			
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.			
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-Medications

ondansetron (ZOFTRAN) 16 mg, dexamethasone

☒ **(DECADRON) 12 mg in sodium chloride 0.9%**

50 mL IVPB

Dose: --

Route: intravenous

once over 15 Minutes for 1 dose

Start: S

End: S 11:30 AM

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

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Route: oral

once for 1 dose

Start: S

End: S 11:30 AM

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Route: oral

once for 1 dose

Start: S

☒ **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

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

**vinCRISTine (ONCOVIN) 2 mg/m2 in sodium
chloride 0.9% 50 mL chemo IVPB**

Dose: 2 mg/m2

Route: intravenous

once over 10 Minutes for 1 dose

Offset: 30 Minutes

Instructions:

Protect from light, VESICANT

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

VINCRIStINE 1
MG/ML

Medications

2 mg/m2

Main

Yes

Ingredient

			INTRAVENOUS SOLUTION SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION				Base	50 mL	Yes	Yes
			cyclophosphamide (CYTOXAN) 1,200 mg/m2, mesna (MESNEX) 1,200 mg/m2 in dextrose 5% 250 mL chemo IVPB Dose: 1,200 mg/m2 Route: intravenous once over 2 Hours for 1 dose Offset: 30 Minutes							
			Ingredients:	Name	Type	Dose	Selected	Adds Vol.		
				CYCLOPHOSPHAMIDE 1 GRAM	Medications	1,200 mg/m2	Main Ingredient	Yes		
				INTRAVENOUS SOLUTION						
				MESNA 100 MG/ML	Medications	1,200 mg/m2	Yes	Yes		
				INTRAVENOUS SOLUTION						
				DEXTROSE 5 % IN WATER (D5W)	Base	250 mL	Yes	Yes		
				INTRAVENOUS SOLUTION						
			DOXOrubicin (ADRIAmycin) 75 mg/m2 in sodium chloride 0.9% 50 mL chemo IVPB Dose: 75 mg/m2 Route: intravenous once over 15 Minutes for 1 dose Offset: 2.5 Hours							
Instructions: Protect from light; VESICANT										
Ingredients:	Name	Type	Dose	Selected	Adds Vol.					
	DOXORUBICIN 50 MG/25 ML	Medications	75 mg/m2	Main Ingredient	Yes					
	INTRAVENOUS SOLUTION									
	SODIUM CHLORIDE 0.9 %	Base	50 mL	Yes	Yes					
	INTRAVENOUS SOLUTION									
	DEXTROSE 5 % IN WATER (D5W)	Base	50 mL	No	Yes					
	INTRAVENOUS SOLUTION									
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.										
Cycle 2 (IE)			Repeat 1 time			Cycle length: 21 days				
Day 1			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: --

☐ **LDH**

Interval: Once Occurrences: --

☐ **URIC ACID LEVEL**

Interval: Once Occurrences: --

☐ **URINALYSIS, AUTOMATED WITH MICROSCOPY**

Interval: Once Occurrences: --

Labs

URINALYSIS, AUTOMATED WITH MICROSCOPY

Interval: Once Occurrences: --

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-Medications

☒ **ondansetron (ZOFTRAN) 16 mg, dexamethasone (DECADRON) 12 mg in sodium chloride 0.9% 50 mL IVPB**

Dose: --

Start: S

Ingredients:

Route: intravenous

End: S 11:30 AM

once over 15 Minutes for 1 dose

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

☐ **ondansetron (ZOFTRAN) tablet 16 mg**

Dose: 16 mg

Start: S

Route: oral

End: S 11:30 AM

once for 1 dose

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg

Start: S

Route: oral

once for 1 dose

☒ **aprepitant (CINVANTI) 130 mg in dextrose (NON-PVC) 5% 130 mL IVPB**

Dose: 130 mg

Start: S

Ingredients:

Route: intravenous

End: S

once over 30 Minutes for 1 dose

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

etoposide (TOPOSAR) 100 mg/m2 in sodium chloride (NON-PVC) 0.9 % 500 mL chemo IVPB

Dose: 100 mg/m2

Route: intravenous

once over 3 Hours for 1 dose

Offset: 30 Minutes

Instructions:

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	100 mg/m2	Main Ingredient	Yes
SODIUM	QS Base	500 mL	Yes	Yes

CHLORIDE 0.9 % IV
SOLP
(EXCEL;NON-PVC)

**ifosfamide (IFEX) 1,800 mg/m2, mesna
(MESNEX) 1,800 mg/m2 in sodium chloride 0.9
% 500 mL chemo IVPB**

Dose: 1,800 mg/m2

Route: intravenous

once over 3 Hours for 1 dose

Offset: 3.5 Hours

Ingredients:

Name

Type

Dose

Selected

Adds Vol.

IFOSFAMIDE 1
GRAM
INTRAVENOUS
SOLUTION

Medications

1,800
mg/m2

Main

Yes

Ingredient

MESNA 100 MG/ML
INTRAVENOUS
SOLUTION
SODIUM
CHLORIDE 0.9 %
INTRAVENOUS
SOLUTION
DEXTROSE 5 % IN
WATER (D5W)
INTRAVENOUS
SOLUTION

Medications

1,800
mg/m2

Yes

Yes

QS Base

500 mL

Yes

Yes

QS Base

500 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.

Days 2,3,4,5

Perform every 1 day x4

Labs

**URINALYSIS, AUTOMATED WITH
MICROSCOPY**

Interval: Once

Occurrences: --

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-Medications

**ondansetron (ZOFTRAN) 16 mg, dexamethasone
(DECADRON) 12 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 Medications

12 mg

Yes

No

4 MG/ML INJECTION SOLUTION SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	Base	50 mL	Always	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	Base		No	Yes

☐ **ondansetron (ZOFRAN) tablet 16 mg**

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

☐ **dexamethasone (DECADRON) tablet 12 mg**

Dose: 12 mg	Route: oral	once for 1 dose
Start: S		

Chemotherapy

etoposide (TOPOSAR) 100 mg/m2 in sodium chloride (NON-PVC) 0.9 % 500 mL chemo IVPB

Dose: 100 mg/m2	Route: intravenous	once over 3 Hours for 1 dose
		Offset: 30 Minutes

Instructions:

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	100 mg/m2	Main Ingredient	Yes
SODIUM CHLORIDE 0.9 % IV SOLP (EXCEL;NON-PVC)	QS Base	500 mL	Yes	Yes

ifosfamide (IFEX) 1,800 mg/m2, mesna (MESNEX) 1,800 mg/m2 in sodium chloride 0.9 % 500 mL chemo IVPB

Dose: 1,800 mg/m2	Route: intravenous	once over 3 Hours for 1 dose
		Offset: 3.5 Hours

Ingredients:

Name	Type	Dose	Selected	Adds Vol.
IFOSFAMIDE 1 GRAM INTRAVENOUS SOLUTION	Medications	1,800 mg/m2	Main Ingredient	Yes
MESNA 100 MG/ML INTRAVENOUS SOLUTION	Medications	1,800 mg/m2	Yes	Yes
SODIUM CHLORIDE 0.9 % INTRAVENOUS SOLUTION	QS Base	500 mL	Yes	Yes
DEXTROSE 5 % IN WATER (D5W) INTRAVENOUS SOLUTION	QS Base	500 mL	No	Yes