#### Chemotherapy Vesicant Extravasation Management [3289]

1. If you suspect or recognize an extravasation, please stop the chemotherapy immediately.

a. Vesicant: a medication or agent that is capable of causing tissue damage or tissue necrosis if here is infiltration into the surrounding tissue.

b. Extravasation: a passage or escape into the tissues; passage or escape of antineoplastic chemotherapy medications into tissue.

2. Notify the physician ordering the chemotherapy immediately.

3. Use the information below to discuss extravasation management with the physician. The management varies by medication category.

Reference: Olsen, M., LeFebvre, K.B., & Brassill, K.J. (2019). Chemotherapy and Immunotherapy Guidelines and Recommendations for Practice. Oncology Nursing Society, Pittsburgh, PA.

## Alkylating Agents (Trabectedin [Yondelis])

**Treatment/Monitoring Instructions** 

6	
[] Stop infusion immediately and disconnect, but leave the cannula in place	Routine, Once For 1 Occurrences
[] Gently aspirate as much extravasated fluid as possible through the cannula	Routine, Once For 1 Occurrences
[] DO NOT FLUSH THE LINE	Routine, Once For 1 Occurrences
[] Remove the cannula	Routine, Once For 1 Occurrences
[] Elevate extremity	Routine, Once For 1 Occurrences
[] Obtain and initiate antidote	Routine, Once For 1 Occurrences
[] Apply cold compress	Routine, Every 6 hours, Starting S with First Occurrence Include Now Afftected area: Waking hours only? Nurse to schedule? Special Instructions: for 20 minutes
[] Assess IV site	Routine, Every shift Assess for pain, blister formation, and skin sloughing.
[] Patient education	Routine, Once For 1 Occurrences Education for: Other (specify) Specify: Instruct patient to monitor the extravasation site and report fever, chills, blistering, skin sloughing, and worsening pain. Report arm or hand swelling and/or stiffness if a peripheral extravasation.

### Alkylating Agents (Mechlorethamine hydrochloride [Nitrogen Mustard Mustargen])

[] sodium thiosulfate 4% injection solution	subcutaneous, once, For 1 Doses Inject 2 ml of Sodium Thiosulfate 4% (into the extravasation site) FOR EACH MG of MECHLORETHAMINE. Inject the solution subcutaneously into the extravasation site using a 25 gauge or smaller needle. Change needle with each injection.
Treatment/Monitoring Instructions	
[] Stop infusion immediately and disconnect, but leave the cannula in place	Routine, Once For 1 Occurrences
[] Gently aspirate as much extravasated fluid as possible through the cannula	Routine, Once For 1 Occurrences
1 DO NOT FLUSH THE LINE	Routine, Once For 1 Occurrences
[] Remove the cannula	Routine, Once For 1 Occurrences
[] Elevate extremity	Routine, Once For 1 Occurrences
[] Obtain and initiate antidote	Routine, Once For 1 Occurrences
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[] Apply ice pack	Routine, Once For 1 Occurrences Afftected area:
	Special Instructions:
	For 6-12 hours following sodium thiosulfate
[] Assess IV site	Routine, Every shift
	Assess for pain, blister formation, and skin sloughing.
[] Patient education	Routine, Once For 1 Occurrences
	Education for: Other (specify)
	Specify: Instruct patient to monitor the extravasation site and
	report fever, chills, blistering, skin sloughing, and worsening
	pain. Report arm or hand swelling and/or stiffness if a
	peripheral extravasation.
Anthracenediones (Mitoxantrone [Novantron	e])
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Treatment/Monitoring Instructions	e]) Routine, Once For 1 Occurrences
Treatment/Monitoring Instructions	
Treatment/Monitoring Instructions [] Stop infusion immediately and disconnect, but leave the cannula in place	
Treatment/Monitoring Instructions           []         Stop infusion immediately and disconnect, but leave the cannula in place	Routine, Once For 1 Occurrences
cannula in place [] Gently aspirate as much extravasated fluid as possible	Routine, Once For 1 Occurrences

### Anthracyclines (Daunorubicin [Cerubidine]; Doxorubicin [Adriamycin]; Epirubicin [Ellence]; Idarubicin [Idamycin])

Routine, Once For 1 Occurrences

Afftected area: Special Instructions:

Routine, Every shift

Routine, Every 6 hours, Starting S For Until specified

area and may require debridement and skin grafting. Assess site for pain, blister formation, and skin sloughing.

For 15-20 minutes at least 4 times a day for the first 24 hours

Extravasation may cause a bluish discoloration of infusion site

Antidote

[]

Elevate extremity

[] Apply ice pack

[] Assess IV site

Dose should be reduced by 50% with creatinine clearance values less than 40 mL/min.

[]_dexrazoxane IV	"Followed by" Linked Panel
[] DEXRAZOXANE ORDERABLE (FOR	1,000 mg/m2, intravenous, for 1 Hours, every 24 hours, For 2 Doses
EXTRAVASATION)	Dexrazoxane must be given ASAP and within 6 hours of extravasation.
	Infuse in large vein in an area other than the extravasation.
[] DEXRAZOXANE ORDERABLE (FOR	500 mg/m2, intravenous, for 1 Hours, every 24 hours, Starting S+2, For 1
EXTRAVASATION)	Doses
	Infuse in large vein in an area other than the extravasation.
Treatment/Monitoring Considerations	
[] Stop infusion immediately and disconnect, but	leave the Routine, Once For 1 Occurrences
cannula in place	leave the Routine, Once for Foccurrences
[] Gently aspirate as much extravasated fluid as	possible Routine, Once For 1 Occurrences
through the cannula	
[] DO NOT FLUSH THE LINE	Routine, Once For 1 Occurrences
Remove the cannula	Routine, Once For 1 Occurrences
[] Elevate extremity	Routine, Once For 1 Occurrences
[] Obtain and initiate antidote	Routine, Once For 1 Occurrences
[] Apply ice pack	Routine, Once For 1 Occurrences
	Afftected area:
	Special Instructions:
	Apply ice pack, but remove at least 15 minutes prior to
	Dexrazoxane treatment.
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[] Assess IV site	Routine, Every shift For pain, blister formation, and skin sloughing, or worsening pain.
[] Patient education	Routine, Once For 1 Occurrences Education for: Other (specify) Specify: Instruct patient to monitor the extravasation site and report fever, chills, blistering, skin sloughing, and worsening pain. Report arm or hand swelling and/or stiffness if a peripheral extravasation.

# Antitumor Antibiotics: (Mitomycin; Dactinomycin; Daunorubicin and cytarabine; Doxorubicin hydrochloride liposome)

Antidote for Mitomycin

[] dimethyl sulfoxide (RIMSO-50) 50 % solution	50 mL, topical (top), PRN, extravasation Apply 50% DMSO using a saturated gauze pad to an area twice the size of the extravasation. May repeat every 4-8 hours for 7-14 days.
Treatment/Monitoring Considerations	
[] Stop infusion immediately and disconnect, but leave the cannula in place	Routine, Once For 1 Occurrences
[] Gently aspirate as much extravasated fluid as possible through the cannula	Routine, Once For 1 Occurrences
[] DO NOT FLUSH THE LINE	Routine, Once For 1 Occurrences
[] Remove the cannula	Routine, Once For 1 Occurrences
[] Elevate Extremity	Routine, Once For 1 Occurrences
[] Apply ice pack	Routine, Every 6 hours, Starting S For Until specified Afftected area: Special Instructions: For 15-20 minutes at least 4 times per day for the first 24 hours
[] Assess IV site	Routine, Every shift Assess extravasation area for pain, blister formation, and ski sloughing.

# Plant alkaloids and microtubule inhibitors (Vinblastine [Velban]; Vincristine [Oncovin]; Vinorelbine [Navelbine])

#### Antidote

[] hyaluronidase (HYLENEX) 150 unit/mL injection	150 Units, subcutaneous, once Administer 150 units of hyaluronidase solution as 5 separate injections each containing 0.2 ml subcutaneously into extravasation site using a 25 gauge or smaller needle. Change needle with each injection.
Treatment/Monitoring Considerations	
[] Stop infusion immediately and disconnect, but leave the cannula in place	Routine, Once For 1 Occurrences
[] Gently aspirate as much extravasated fluid as possible through the cannula	Routine, Once For 1 Occurrences
[] DO NOT FLUSH THE LINE	Routine, Once For 1 Occurrences
[] Remove the cannula	Routine, Once For 1 Occurrences
[] Elevate extremity	Routine, Once For 1 Occurrences
[] Obtain and initiate antidote	Routine, Once For 1 Occurrences
[] Apply heat to affected area	Routine, Every 6 hours, Starting S For 4 Occurrences Afftected area: Apply warm pack for 15-20 minutes four times per day for the first 24 hours.

[] Assess IV site	Routine, Until discontinued, Starting S For pain, blister formation, and skin sloughing, periodically.
[] Patient education	Routine, Once For 1 Occurrences Education for: Other (specify) Specify: Instruct patient to monitor extravasation and report any fever, chills, blistering, skin sloughing, and worsening pain.

## Taxanes (Docetaxel [Taxotere]; Paclitaxel [Taxol]; Paclitaxel protein bound [Abraxane]; Cabazitaxel [Jeftana])

Antidote	
[] hyaluronidase (HYLENEX) 150 unit/mL injection	150 Units, subcutaneous, once Administer 150 units of hyaluronidase solution as 5 separate injections each containing 0.2 ml subcutaneously into extravasation site using a 25 gauge or smaller needle. Change needle with each injection.
Treatment/Monitoring Considerations	
[] Stop infusion immediately and disconnect, but leave the cannula in place	Routine, Once For 1 Occurrences
[] Gently aspirate as much extravasated fluid as possible through the cannula	Routine, Once For 1 Occurrences
[] DO NOT FLUSH THE LINE	Routine, Once For 1 Occurrences
[] Remove the cannula	Routine, Once For 1 Occurrences
[] Elevate extremity	Routine, Once For 1 Occurrences
] Apply ice pack	Routine, Every 6 hours, Starting S
	Afftected area:
	Special Instructions:
	For 15-20 minutes at least four times per day for the first 24 hours
] Assess IV site	Routine, Every shift
	Assess extravasation site for pain, blister formation, and skir sloughing.
	Docetaxel extravasation may cause hyperpigmentation,
	redness, and tenderness.
	Paclitaxel is a mild vesicant; extravasation may cause
	induration, blistering, and, rarely, tissue necrosis.
[] Patient education	Routine, Once For 1 Occurrences
	Education for: Other (specify) Specify: Instruct patient to monitor the extravasation site and
	report fever, chills, blistering, skin sloughing, and worsening
	pain. Report arm or hand swelling and/or stiffness if a peripheral extravasation.