

Chemotherapy Vesicant Extravasation Management (Outpatient) [3452]

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 there 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

<input type="checkbox"/> Stop infusion immediately and disconnect, but leave the cannula in place	Details
<input type="checkbox"/> Gently aspirate as much extravasated fluid as possible through the cannula	Details
<input type="checkbox"/> DO NOT FLUSH THE LINE	Details
<input type="checkbox"/> Remove the cannula	Details
<input type="checkbox"/> Elevate extremity	Details
<input type="checkbox"/> Obtain and initiate antidote	Details
<input type="checkbox"/> Apply cold compress	Routine, Clinic Performed, Normal, For 20 minutes
<input type="checkbox"/> Assess IV site - Assess for pain, blister formation, and skin sloughing	Routine, Clinic Performed, Normal
<input type="checkbox"/> Patient education - Other (Extravasation)	Routine, Clinic Performed, Normal 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])

Antidote for Mechlorethamine

<input type="checkbox"/> sodium thiosulfate 4% injection solution	subcutaneous, once, For 1 Doses Inject 2 mL of sodium thiosulfate solution for each milligram of Mechlorethamine suspected to have extravasated. Inject the solution subcutaneous into the extravasation site using a 25 gauge or smaller needle. Change needle with each injection.
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Treatment/Monitoring Instructions

<input type="checkbox"/> Stop infusion immediately and disconnect, but leave the cannula in place	Details
<input type="checkbox"/> Gently aspirate as much extravasated fluid as possible through the cannula	Details
<input type="checkbox"/> DO NOT FLUSH THE LINE	Details
<input type="checkbox"/> Remove the cannula	Details
<input type="checkbox"/> Elevate extremity	Details
<input type="checkbox"/> Obtain and initiate antidote	Details
<input type="checkbox"/> Apply ice pack for 6-12 hours following sodium thiosulfate	Routine, Clinic Performed, Normal
<input type="checkbox"/> Assess IV site - Assess for pain, blister formation, and skin sloughing	Routine, Clinic Performed, Normal

<input type="checkbox"/> Patient education - Other (Extravasation)	Routine, Clinic Performed, Normal 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.
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Anthracenediones (Mitoxantrone [Novantrone])

Treatment/Monitoring Instructions

<input type="checkbox"/> Stop infusion immediately and disconnect, but leave the cannula in place	Details
<input type="checkbox"/> Gently aspirate as much extravasated fluid as possible through the cannula	Details
<input type="checkbox"/> DO NOT FLUSH THE LINE	Details
<input type="checkbox"/> Remove the cannula	Details
<input type="checkbox"/> Elevate extremity	Details
<input type="checkbox"/> Apply ice pack	Routine, Clinic Performed, Normal, For 20 minutes
<input type="checkbox"/> Assess IV site - Assess site for pain, blister formation, and skin sloughing	Routine, Clinic Performed, Normal, Extravasation may cause a bluish discoloration of infusion site area and may require debridement and skin grafting.

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

Antidote

<input type="checkbox"/> DEXRAZOXANE ORDERABLE (FOR EXTRAVASATION)	1,000 mg/m ² , intravenous, for 1 Hours, every 24 hours, For 2 Doses Dexrazoxane must be given ASAP and within 6 hours of extravasation. Infuse in large vein in an area other than the extravasation.
<input type="checkbox"/> DEXRAZOXANE ORDERABLE (FOR EXTRAVASATION)	500 mg/m ² , intravenous, for 1 Hours, every 24 hours, Starting S+2, For 1 Doses Infuse in large vein in an area other than the extravasation. Administer AFTER the initial 2 doses of 1000 mg/m ² Dexrazoxane infusion

Treatment/Monitoring Considerations

<input type="checkbox"/> Stop infusion immediately and disconnect, but leave the cannula in place	Details
<input type="checkbox"/> Gently aspirate as much extravasated fluid as possible through the cannula	Details
<input type="checkbox"/> DO NOT FLUSH THE LINE	Details
<input type="checkbox"/> Remove the cannula	Details
<input type="checkbox"/> Elevate extremity	Details
<input type="checkbox"/> Obtain and initiate antidote	Details
<input type="checkbox"/> Apply ice pack but remove at least 15 minutes prior to Dexrazoxane treatment	Routine, Clinic Performed, Normal
<input type="checkbox"/> Assess IV site for pain, blister formation, and skin sloughing, or worsening pain	Routine, Clinic Performed, Normal
<input type="checkbox"/> Patient education - Other (Extravasation)	Routine, Clinic Performed, Normal Education for: 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)

Mitomycin Antidote

<input type="checkbox"/> 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.
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Treatment/Monitoring Considerations

<input type="checkbox"/> Stop infusion immediately and disconnect, but leave the cannula in place	Details
<input type="checkbox"/> Gently aspirate as much extravasated fluid as possible through the cannula	Details
<input type="checkbox"/> DO NOT FLUSH THE LINE	Details
<input type="checkbox"/> Remove the cannula	Details
<input type="checkbox"/> Elevate extremity	Details
<input type="checkbox"/> Apply ice pack	Routine, Clinic Performed, Normal, For 15-20 minutes
<input type="checkbox"/> Assess IV site for pain, blister formation, and skin sloughing	Routine, Clinic Performed, Normal, Assess extravasation area.

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

Antidote

<input type="checkbox"/> 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.
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Treatment/Monitoring Considerations

<input type="checkbox"/> Stop infusion immediately and disconnect, but leave the cannula in place	Details
<input type="checkbox"/> Gently aspirate as much extravasated fluid as possible through the cannula	Details
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<input type="checkbox"/> Remove the cannula	Details
<input type="checkbox"/> Elevate extremity	Details
<input type="checkbox"/> Obtain and initiate antidote	Details
<input type="checkbox"/> Apply heat to affected area	Routine, Clinic Performed, Normal, Apply warm pack for 15-20 minutes.
<input type="checkbox"/> Assess IV site for pain, blister formation, and skin sloughing, periodically	Routine, Clinic Performed, Normal
<input type="checkbox"/> Patient education - Other (Extravasation)	Routine, Clinic Performed, Normal 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 [Jevtana])

Antidote

<input type="checkbox"/> 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.
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Treatment/Monitoring Considerations

<input type="checkbox"/> Stop infusion immediately and disconnect, but leave the cannula in place	Details
<input type="checkbox"/> Gently aspirate as much extravasated fluid as possible through the cannula	Details
<input type="checkbox"/> DO NOT FLUSH THE LINE	Details
<input type="checkbox"/> Remove the cannula	Details
<input type="checkbox"/> Elevate extremity	Details
<input type="checkbox"/> Apply ice pack	Routine, Clinic Performed, Normal, For 15-20 minutes
<input type="checkbox"/> Assess IV site for pain, blister formation, and skin sloughing	Routine, Clinic Performed, Normal, Docetaxel extravasation may cause hyperpigmentation, redness, and tenderness. Paclitaxel is a mild vesicant; extravasation may cause induration, blistering, and, rarely, tissue necrosis.
<input type="checkbox"/> Patient education - Other (Extravasation)	Routine, Clinic Performed, Normal 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.