

**Extravasation/Infiltration Management Chart**

JHH Extravasation/Infiltration Policy: [https://hpo.johnshopkins.edu/hopkins/policies/39/20/policy\\_20.pdf?\\_id=0.51083792631](https://hpo.johnshopkins.edu/hopkins/policies/39/20/policy_20.pdf?_id=0.51083792631)

Administration procedures for compresses/antidotes: [https://hpo.johnshopkins.edu/hopkins/policies/39/20/Infiltration\\_Extravasation\\_Management\\_Procedures.pdf](https://hpo.johnshopkins.edu/hopkins/policies/39/20/Infiltration_Extravasation_Management_Procedures.pdf)

Medication	Warm Compresses (**should not be used in neonates)	Cold Compresses (**should not be used in neonates)	Hyaluronidase	Phentolamine	Dexrazoxane	Sodium Thiosulfate
Acyclovir*	X		X			
Allopurinol		X				
Aminophylline*	X		X			
Amiodarone		X				
Amphotericin B		X				
Arginine HCL	X	X				
Arsenic Trioxide	X	X				
Bleomycin		X				
Busulfan	X	X				
Calcium Chloride*	X		X			
Calcium Gluconate*	X		X			
CARBOplatin		X				
Carmustine		X				
CISplatin*		X				X
Cladribine	X	X				
Cyclophosphamide		X				X
Cytarabine	X	X				
Dacarbazine		X				
Dactinomycin*		X				
DAUNorubicin*		X			X	
Dextrose >10%*	X		X			
Diazepam		X				
Digoxin	X	X	X			
DOBUtamine				X		
Docetaxel		X				
DOPamine*				X		
DOXorubicin		X			X	
Doxycycline*	X		X			
Epinephrine*				X		
Erythromycin		X				
Esmolol	X	X				
Etomidate	X	X	X			
Etoposide	X		X			
Fluorouracil	X	X				
Gemcitabine	X	X				
Gemtuzumab	X	X				
Idarubicin*		X			X	
Ifosfamide		X				
Iohexol* (see contrast agent extravasation antidotes box clicking link at top of page)		X				
Irinotecan		X				
Lorazepam		X				
Magnesium Sulfate		X				
Mannitol*	X		X			
Mechlorethamine*		X				X
Melphalan	X	X				
Metoprolol	X	X				
Mitomycin		X				
Mitoxantrone		X				
Nafcillin*	X		X			
Norepinephrine*				X		
OxALIplatin		X				
Paclitaxel*		X				
Pamidronate	X	X				
Parental Nutrition (TPN)*	X		X			
Penicillin G Potassium		X	X			
Phenobarbital*	X		X			
Phenylephrine*				X		
Phenytoin	X		X			
Piperacillin/Tazobactam		X				
Potassium Chl. (>40 meq/L)*	X		X			
Promethazine*	X	X				
Sodium Benzoate/ Phenyacetate (Ammunol)*	X		X			
Sodium Bicarbonate*	X		X			
Sodium Chloride, Hypertonic	X		X			
Teniposide	X		X			
Thiotepa	X	X				
Topotecan	X	X				
Vancomycin		X	X			
Vasopressin*				X		
VinBLAstine*	X		X			
VinCRIStine*	X		X			
Vinorelbine*	X		X			

\* Vesicants are highlighted in this color

**Key**

X - X in both warm and cold compresses columns means that either compress can be used for these agents and should be guided by patient comfort

Infiltration Grading Scale	
Grade	Clinical Criteria
0	No symptoms
1	<ul style="list-style-type: none"> <li>Skin blanched</li> <li>With or without pain</li> <li>Cool to touch</li> <li>Edema &lt;1" in any direction</li> </ul>
2	<ul style="list-style-type: none"> <li>Skin blanched</li> <li>With or without pain</li> <li>Cool to touch</li> <li>Edema 1-6" in any direction</li> </ul>
3	<ul style="list-style-type: none"> <li>Skin blanched, translucent</li> <li>Mild to moderate pain</li> <li>Gross edema &gt;6" in any direction</li> <li>Cool to touch</li> <li>Possible numbness</li> </ul>
4	<ul style="list-style-type: none"> <li>Skin blanched, translucent</li> <li>Moderate to severe pain</li> <li>Skin tight, leaking</li> <li>Skin discolored, bruised, swollen</li> <li>Deep pitting tissue edema</li> <li>Gross edema &gt;6" in any direction</li> <li>Circulatory impairment</li> <li>Blood product, irritant, or vesicant infiltration</li> </ul>

Phlebitis Grading Scale	
Grade	Clinical Criteria
0	No symptoms
1	Erythema at access site +/- pain
2	Pain at access site with erythema +/- edema
3	<ul style="list-style-type: none"> <li>Pain at access site with erythema +/- edema</li> <li>Streak formation</li> <li>Palpable venous cord</li> </ul>
4	<ul style="list-style-type: none"> <li>Pain at access site with erythema +/- edema</li> <li>Streak formation, Palpable venous cord &gt;1"</li> </ul>