Extravasation Reduction for the Medical, Cardiac Care, and Surgical Intensive Care Units at Riverside Regional Medical Center

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Problem Statement

- In 2023, Phentolamine was ordered 29 times for 23 true extravasation events.
- However only 9 rCares for vasoactive medication extravasation were completed.
- The goal for this project is to reduce the frequency of vasoactive extravasations by 20% annually and improverCare documentation.

Investigation

- A survey completed by MICU, SICU, and CCU nurses revealed the following knowledge gaps:
 - Safe IV placement to infuse peripheral VAM
 - Max doses for peripheral VAM infusions
- IV catheter size to infuse peripheral VAM
- Hourly assessments on IVs infusing VAM were not being completed

Extravasation Reduction

- Post-education extravasation data revealed a 28% improvement in rCare documentation as well as the reduction of extravasation events
- Improvements were made in nursing education regarding rPolicy 12400 which outlines the safe administration of peripheral pressors

Next Steps

- Continued education with nursing staff at Critical Care Skills Fairs
- Distribution of badge buddies
- Further research in the development of iCare pop-ups

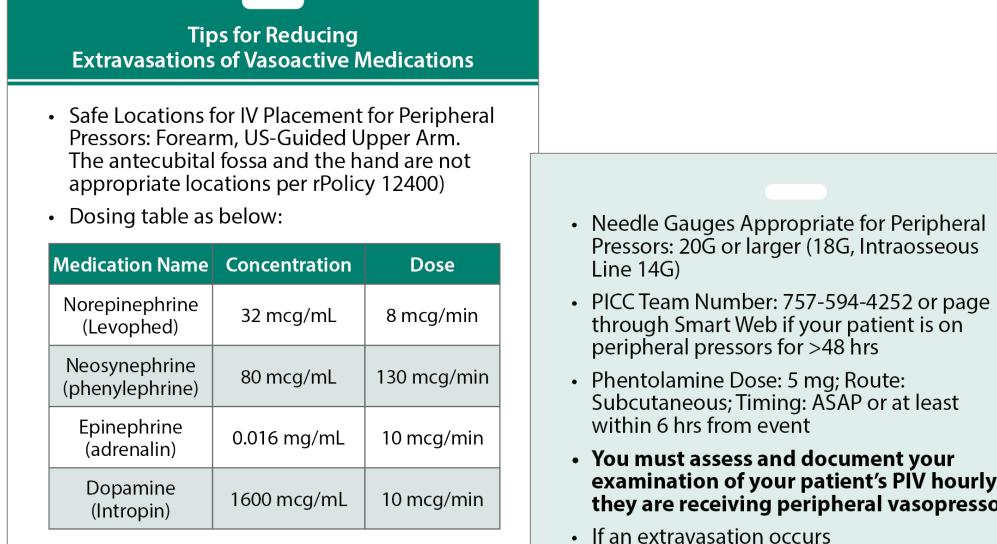
Definition

- Extravasations are defined as leakage of an intravenous solution into surrounding tissues.¹
- Risks of vasoactive medications (VAM) such as Norepinephrine, Neosynephrine, Epinephrine, and Intropin leaking into the skin can cause tissue damage, ischemia, and necrosis.²

Interventions

- Held education seminars to review rPolicy 12400.
- Worked with administrators to create nursing "badge buddy" aid to remind them how to safely administer peripheral VAMs

Extravasation Reduction Badge Buddy



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- PICC Team Number: 757-594-4252 or page
- examination of your patient's PIV hourly if they are receiving peripheral vasopressors
- o Immediately stop the infusion and aspirate
- o Notify provider and ask for Phentolamine
- o Make nursing note documenting IV location, IV size, name of medication, rate of infusion, appearance of skin o Document rCare

References

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- 2.Plum M, Moukhachen O. Alternative pharmacological management of vasopressor extravasation in the absence of phentolamine. PT. 2017;42(9):581-592. Accessed August 22,

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