

## CANCER CHEMOTHERAPY: IMMEDIATE COMPLICATIONS and NURSING RESPONSIBILITIES

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#### **ACUTE INFUSION REACTIONS**







#### Signs and Symptoms

- Uneasiness or Agitation
- Tightness of chest
- Shortness of Breath
- Hypotension
- Urticaria
- Pruritus
- Fever/ chills
- Tachycardia
- Swelling of tongue/ throat

#### **ACUTE INFUSION REACTIONS**

#### Prevention

- Obtain Baseline vital signs
- Review Allergy/ies
- Administer Pre- medications
- Ensure availability of emergency equipment
- Instruct patient to report symptoms
- Monitor occurrence of reaction on each treatment
- Avoid administering subsequent dose if patient is considered sensitized.
- Document









#### **Irritation**

Teach the patient to report the following:

- aching and tightness along a peripheral vein, above the administration site, vein may appear reddened or darkened
- development of hard cord along the vein, pain, and temperature elevation





#### **FLARE REACTION**

- distinguishable from extravasation by the lack of pain or swelling and the presence of a good blood return (Hayden & Goodman, 2005)
- A red blush on the skin at the periphery of an urticarial lesion seen in immediate hypersensitivity reactions (Mosby's, 2006, p. 743)



## Signs and Symptoms

- Pain
- Redness
- Swelling
- No Blood Return
- Ulceration



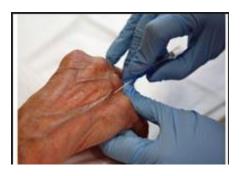




## Risk Factors for peripheral veins

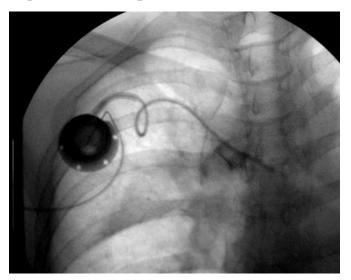
- Small Fragile Veins
- Multiple Venipuncture
- Limited vein Selection
- Inadequately secured IV Line
- Probing during IV insertion

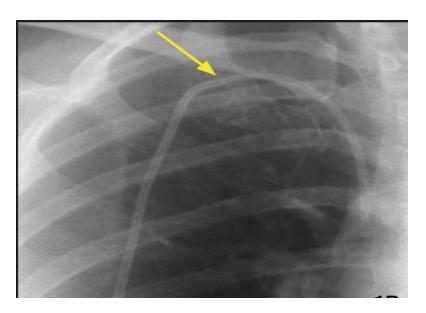




#### Risk Factors for Venous Access Device

- Difficulty during device insertion
- Deep Implanted ports
- Inadequately Secured non coring needles
- Catheter Migration
- Device Misplacement
- Inadvertent slicing, piercing or nicking of catheter prior to insertion





#### **Initial Management**

- Immediately STOP Administration of the chemo drug
- Disconnect IV tubing but do not remove the IV needle/ cannula
- Aspirate residual vesicant from the device
- Assess site for suspected extravasation
- Notify Physician
- Give Antidote as ordered
- Apply compress
  - Icepack- 15-20 min 3-4x a day
  - Warm pack is only used for for plant alkaloids infusion such as vinblastine, vincristine, vindesine and vinorelbine
- Document the incident and management done













#### **Any Questions?**

### THANK YOU!

#### Acknowledgement

#### Philippine Oncology Nurses Association, Inc. (PONA)

Some of the slides were taken from the lectures for the Basic chemotherapy course

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