MANAGEMENT OF EXTRAVASATION: TREATMENT SUMMARY

- Extravasation suspected resistance or absence of free flow, swelling, discomfort, burning, pain. STOP the injection immediately, but leave the cannula in place.
- Aspirate as much fluid as possible through the cannula, try to draw backabout 3-5ml of blood.

Contact the patient's doctor.

Oxaliplatin

Raltitrexed

Teniposide

Topotecan

Trastuzumab

· Remove the cannula.

- Mark the extravasation area with a pen.
- Classify the agent using the tables below and treat as directed.

Vinca alkaloids

Vinblastine
Vincristine
Vindesine
Vinorelbine

Vesicant drugs

Amsacrine Bendamustine Hvdrochloride Carmustine Dacarbazine Dactinomycin Daunorubicin Doxorubicin Epirubicin Idarubicin Mitomycin Mustine Paclitaxel Plicamycin Streptozcin Treosulphan

Extreme pH, osmolarity, or toxic excipients

Aciclovir
Allopurinol
Aminophylline
Amiodarone
Amphotericin
Calcium chloride
Calcium gluconate
Ciprofloxacin
Clarithromycin
Co-trimoxazole
Diazepam
Erythromycin
Etomidate
Foscarnet
Ganciclovir

Hypertonic glucose (10% or greater) Hypertonic saline (1.8% or greater) Magnesium sulphate Mannitol Methohexitone Methylene blue Parenteral nutrition Phenytoin Potassium chloride (>40mmol per litre) Sodium bicarbonate Thiopentone Vancomvcin X-ray contrast media

Exfoliant or Irritant drugs

Aclarubicin Arsenic Trioxide Busulphan Carboplatin Cisplatin Cloretazine Daunorubicin (liposomal) Docetaxel Doxorubicin (liposomal) Etoposide Etoposide phosphate Floxuridine Fluorouracil Irinotecan Methotrexate Mitoxantrone

Adrenaline Alprostadil Dobutamine

Vascular regulators

Dopamine Epoprostenol Noradrenaline

Neutral drugs

Aldesleukin Asparaginase Bleomycin Bortezomib Cladribine

Clofarabine

Cyclophosphamide

Cytarabine

Fludarabine

Gemcitabine

Ifosfamide Interferons

Melphalan

Monoclonal antibodies

Nelarabine

Pemetrexed

Pentostatin

Thiotepa

Aim: spread and dilute

- Reconstitute 1500iu of Hyaluronidase with 1ml Water for Injection.
- Give this Hyaluronidase solution in 0.1- 0.2ml subcutaneous injections at 6 to 8 sites around the circumference of the extravasation area.
- Apply a HOT pack for 24 hours. Remove the pack every 3 hours for 20 to 30 minutes replace with a fresh pack.
- Apply Hydrocortisone Cream 1% four times a daily for as long as erythema persists.

Aim: localisation 1.

- For bendamustine hydrochloride, carmustine, mustine, paclitaxel and treosulphan treat as in 'Aim: localisation 2'. For all other vesicant drugs treat as detailed below.
- Apply a thin layer of DMSO 50% cream to the marked area immediately using a cotton bud and cover with gauze. Avoid contact with unaffected skin.
- Repeat DMSO application every 2 hours for 24 hours then every 6 hours for 7 days.
- Immediately after first DMSO application apply COLD pack for 30 minutes. Repeat every 4 hours for 24 hours.
- 3 hours after first DMSO application apply hydrocortisone 1% cream. Repeat every 6 hours for 7 days.

Aim: localisation 2.

- Apply cold pack for 30 minutes every 4 hours for 24 hours.
- Apply hydrocortisone cream 1% every 6 hours for 7 days or as long as erythema persists'

NB for liposomal daunorubicin / liposomal doxorubicin treat as in 'Aim: localisation 1' but delay DMSO application until 8 - 12 hours post incident and continue for 10 - 14 days. Commence treatment with hydrocortisone 1% cream and COLD pack immediately.

Aim: symptomtatic treatment

 Apply hydrocortisone cream 1% four times each day if erythema is present

DOCUMENTATION

- Inform the patient's consultant
- Complete a Cardiff and Vale NHS Trust Incident Record Form (HS/IDO/02).
- Document the extent of extravasation in the patient's medical notes.
 Consider including a photographic record of the injury and treatment progress.
- Complete an extravasation report (Green Card) and post or complete on-line at http://www.extravasation.org.uk/Documentation.htm
- Return opened extravasation kit to pharmacy for replacement.

- Check the site regularly and review at least twice daily, initially.
 Then according to the severity of the injury and progress.
- The treatment proposed above is "first aid" only. Seek further advice – early review by plastic surgeon is advisable.

Further information

More detailed information may be obtained from the National Extravasation Information Service: http://www.extravasation.org.uk/home.html

EXTRAVASATION KITS ARE AVAILABLE

UHW - Ambulatory Care: Sky Ward: Heulwen: Paediatric South Ward: HDC: A7: B4 Haem: GITU: A&E: ICU: Dermatology: C2: C7: B5: Nephrology OP Clinic: C4 Neurosciences: Upper Ground Gynaecology: A1 Ophthalmology: Rheumatology OP Clinic: Main Theatres: A5 OP Clinic: Pharmacy Emergency Cupboard.

LLAN - Chemotherapy Day Unit: ICU: MAU: Pharmacy Emergency Cupboard: Theatres Ground Floor

