

Reducing Harm from Extravasation Injuries

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Problem

In 2013 35 extravasation injuries

Court proceedings - payouts of £170 000

Impact on patient, family and staff involved

Defining the problem

Children's Hospital

Baseline & ongoing data (aka audit!)

Act Plan
Study Do

- Process mapping
- MDT problem:
 - Lines inserted in multiple venues
 - Dressing use varied (theatres changed after feedback)



Extravasation Audit Hospital

Extravasation injury data collection proforma		
Date and time of injury:	Affix patient label here	
Date of cannula insertion:		
Where was cannula inserted (e.g. ward, theatre etc.):		
Cannula site (anatomical location):		
Cannula dressing (e.g. IV 3000):		
Bandage in situ at time of extravasation injury: YES/NO If yes was there a 'window' to visualise insertion site? YE	S/NO	
Insertion site easily visible through dressing: YES/NO		
Paediatric Extravasation and Phlebitis (PEP) score chart (Please attach a photocopy of the PEP chart to this fo		
Drug being infused at time of extravasation injury:		
High risk injury (see extravasation guideline): YES/NO		
Infusion stopped: YES/NO		
Cannula left in situ: YES/NO		
Time doctor called:		
Time doctor arrived:		
Wound photographed: YES/NO		
Hyaluronidase administered and washout performed: YES	N/NO	
Parent/carer informed: YES/NO		
Incident form completed: YES/NO		
Senior doctor (SoR or consultant) informed: YES/NO		
Plastic surgery team informed at time of injury: YES/NO		

 Compliance with UHS **Paediatric** Extravasation Guidance and UHS Peripheral Cannulation **Policy**

Measures

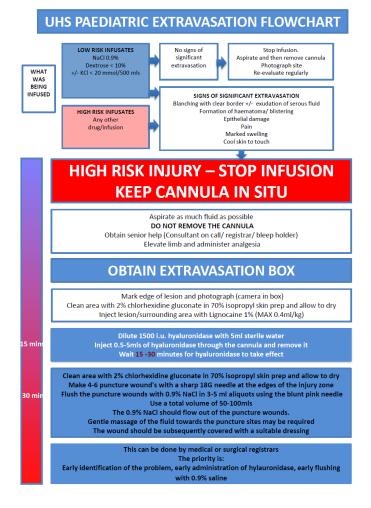


Process

- Extravasation injuries
 - Observation only
 - Required irrigation
 - Compliance with escalation and management policy
 - Documentation

Outcome

- Plastic surgery involvement
- Payouts

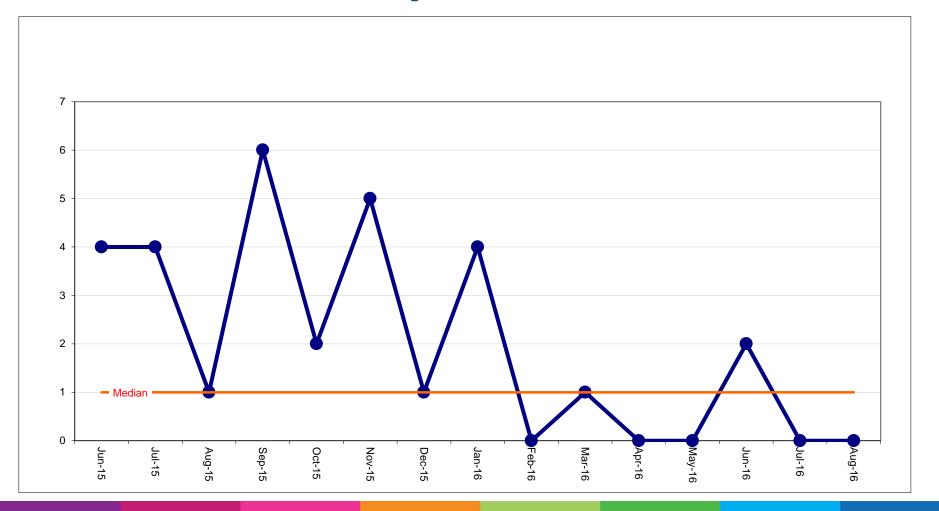




Solutions

- MDT approach: inserting, caring, using and medications all contribute
- Different staff groups theatres, wards, ED
- Education, education
 - Standardised process protocol for management
 - Whole process: patient/case based
 - mandatory training days,
 - doctors inductions,
 - simulations (recognition and escalation) etc
 - top tips

Run Chart – Total number of Children's Hospital Extravasation Injuries since June 2015





Summary

Year	Number of extravasations
2013	35
2014	36
2015	32
January – Beginning of Sept 2016	7



Further data

- No cases where plastic surgery intervention required
- All parents/carers informed and Duty of Candour completed where required



Ongoing Learning

Children's Hospital

- High risk drugs acyclovir. How to 'be alert'
- Documentation of PEP and cannula insertion
- Night time PEP vital 2015 audit showed majority occurred OOH, in 2016 6/7 OOH
- Timings of escalation

Continued programme of education essential



Key Messages

- Success achieved through:
 - Multi-disciplinary approach
 - Education, education, education adapted to requirements of particular group
 - Ensuring continued awareness

Utilising a similar approach for improvement in other areas

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Thank you

Any questions?

