# Risk & Paediatric critical care transfer



**Christopher Walker** 

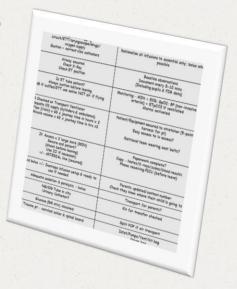
Advanced Nurse Practitioner



Regardless of experience, intelligence, motivation or vigilance, we all make mistakes

# Why is it safer with specialist teams?

- Familiarity with age group
- Familiarity with equipment
- More experienced
- Learned from previous 'mistakes'



## The referral



# Charlie



#### The referral

Backgound history? Immediate history? Current issues? intubated or not? Oral or nasal? What tube size/length? Grade of view? Anaesthetists in attendance? Paed Consultant in attendance? Maintaining airway? Saturation levels? current oxygen delivery? work of breathing? chest x ray? ventilatory pressures? Tidal volume? Rate? Heart rate? Heart sounds? Blood pressure? invasive or non invasive? capillary refill time? Peripheral/central or intraosseus? Fluid boluses?

Amount of fluid given? Type of fluid given? Maintenance fluid? inotropes? urine output? Palpable liver? Palpable femoral pulses? GCS/AVPU? sedation? PEARL? Temperature? Blood cultures? WBC? CRP? Other cultures? Antimicrobials given? Any known resistance? Blood gases? US ES? clotting profile? FBC? LFTS?

# What are the difficulties you have experienced in a referral process?



#### The referral

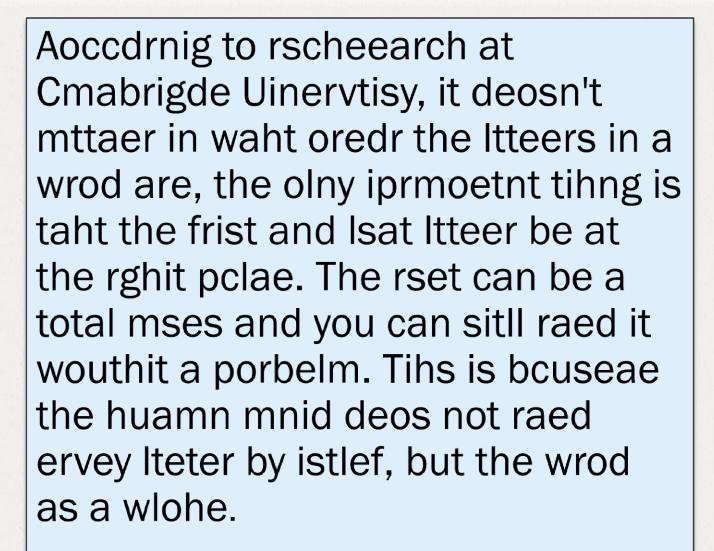




# Barriers to Effective Communication

- Human fallibility
- Complex systems
- Limitations of learning & training
- Continuity gaps
- Negative impact of fatigue
- Time constraints
- Volume of information
- Confidentiality





### Stabilisation and transfer



# Charlie



0

- A Maintaining own airway
- C NIBP 89/56 (66), HR 150-160, Crt <2secs, No Inotropes
- D PEARL 3mm R=L no sedation
- Last Gas (capillary)

pH 7.38 pCO<sub>2</sub>6.29 pO<sub>2</sub> 6.0 HCO<sub>3</sub>28.2 BXS 2.5 Lactate 2.4

- Commenced on prostin infusion 10nanograms/kg/min
- Mum & Dad would like to travel with Charlie in the ambulance

## TIME TO VOTE



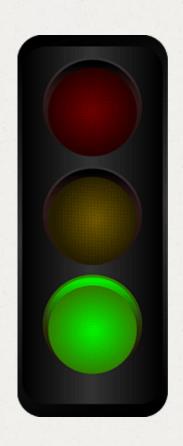
## The Questions

- This child needs PICU care and transfer now by NWTS
- This child needs PICU care and further stabilisation by NWTS before transfer
- This child does not need transfer yet



#### **NWTS** Categories

- Red
  - Blue lights and sirens
- Amber
  - Blue lights and sirens only if significant delay
- Green
  - Normal traffic rules





# Which transfer category should NWTS use?

Green

Amber

Red

# Does the distance of the transfer alter you decision making?

**O** YES

O NO

## Difficulties Weather





#### Monday, 8 December 2008 BBC News

Dangerous: This ambulance overturned in the icy conditions injuring a sick baby inside

The crashed ambulance lies on its side on the motorway

- -a four-week old baby was inside when it overturned
- -The baby was restrained correctly in the Babypod
- -The baby disconnected from ventilator and came out of the Babypod
- -Needed Mouth to ET Tube ventilation
- -Baby survived





#### Secure the Patient

5 point unrestricting harness



# Are you insured?

Yes

Unsure

O No

# Difficulties (Capacity)



### Handover



#### Charlie

- Leader
- Consistency
  - Timing standard time & duration
  - Location Limit interruptions & ensure confidentiality
  - Clarity, brevity, & filtering
  - Highlight any problems
- Process for verification of the information
  - Repeat back
  - Read back
- Resilience
  - Handover sheets





We can't change the human condition, but we can change the conditions under which humans Work" (J.Reason, 2000)

# Thankyou

