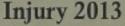
RSI/REBOA/ECMO/WINCH RESCUE OF MOA...





HANDOVER FROM E.M.S. TO E.D.

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Emergency Medicine - Auckland City Hospital
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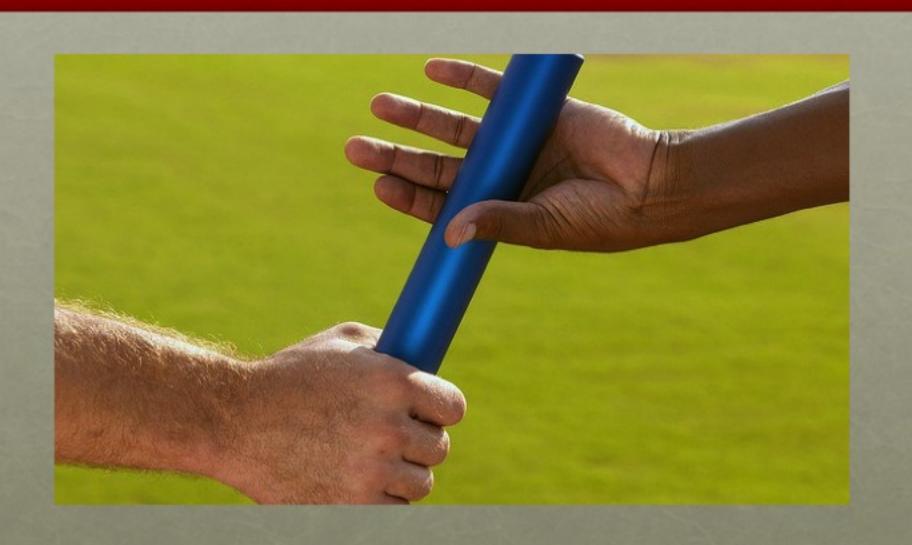
DISCLOSURE

- Senior Medical Officer in Emergency Medicine at the Auckland District Health Board.
- HEMS Medical Director at the Auckland Rescue Helicopter Trust.
- No conflicts of interest.

OUTLINE

- Why: Transitions in care identified as higher risk communication processes.
- How: To trap and mitigate this threat, standardized models of handover are developed and implemented
- What: Handover tools
 - 'I MIST AMBO'
 - SBAR
 - Use of Whiteboards

HANDOVER



BACKGROUND

- Safety and quality
 - Communication failure is a root cause of many incidents
 - Less than half of information given by EMS is retained by ED (EMJ 2007)
- Theory: Co-orientation
 - Development of a shared mental model
- · Evolution:
 - IOM: 'To Err is Human' (USA 1999)
 - The Garling Report (NSW, Australia 2008)
 - NSW Ambulance/Emergency Department Handover Project (2010)

TRANSITION OF CARE

- · Handover is:
 - Complex
 - Often repeated
 - Suffers from role ambiguity
- Safe transitions require transfer of information and responsibility
- They also allow for problem recognition, analysis and 'sensemaking'

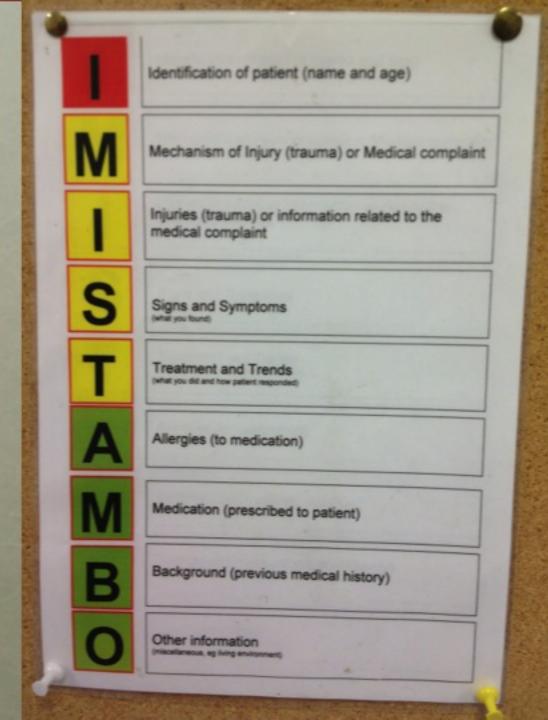
STANDARDIZED COMMUNICATION

- Template
- 'Flexible standardization'
- Most important information first

INTERACTION

- Interruption-free zone
- · 'Hands off, eyes on'
 - 20 seconds
 - Minimize patient and equipment handling
 - Maintain eye contact
- · Pause allows for active listening
 - Shared attention





I MIST AMBO

- Identification
- Mechanism/Medical complaint
- Injuries/Information about complaint
- Signs
- Treatment
- Pause: allow for cross-check

I MIST AMBO

- Allergies
- Medications
- · Background
- · Other issues

EVIDENCE OF BENEFIT

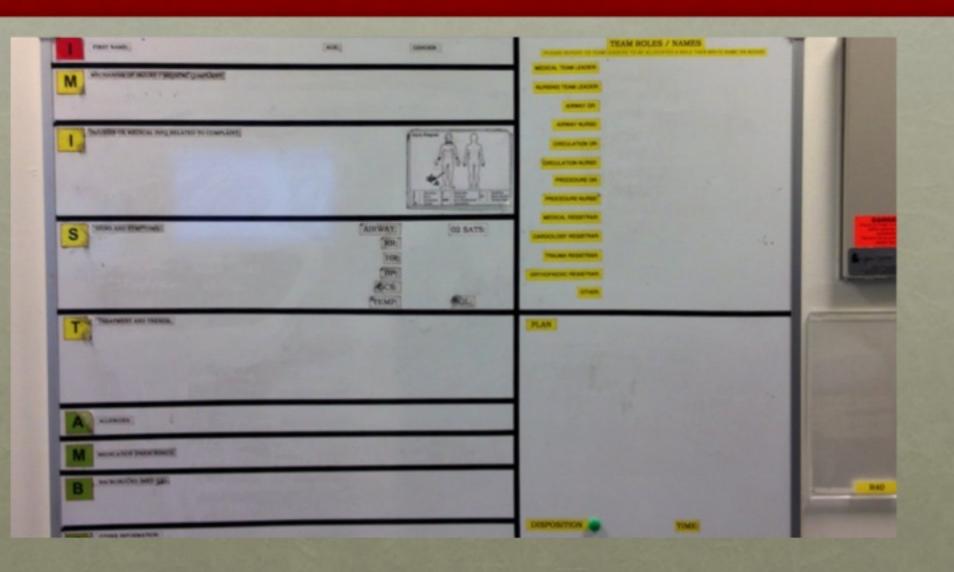
- Process outcomes:
 - More consistent flow of information
 - Takes less time
 - Less interruptions
 - Less repetition
 - Increased provider satisfaction
 - BMJ Safety and Quality (August 2012)
- Patient outcomes?

ACH IMPLEMENTATION

· Emergency Department staff role identification



WHITEBOARD



TEAMWORK



INTER-PROFESSIONAL, INTER-AGENCY COLLABORATION

- Paramedics
 - St John Ambulance
 - Auckland Rescue Helicopter Trust
- Nurses
- Doctors:
 - Emergency Medicine
 - Trauma
 - Critical Care

CHALLENGES

- · Culture eats (process) strategy for breakfast...
 - Change management
- · 'Live within our means'
 - Safety versus efficiency
- ED Resuscitation Teams
 - Ad hoc team composition, serial arrivals
- What about SBAR? ISOBAR? The Bar ☺?
 - MIST offers greater content specificity

THE FUTURE

- Might the R40 also use this standard format?
 - External handover by radio from EMS to ED
- Transition of care from ED Resusc to Definitive Care
- · Similar crisis:
 - Danger
 - Opportunity

PRE-TRANSPORT CHECKLIST

cm at teethDocumented	
Tube tieSecure	Non-participating staffExcused
Laryngeal Mask	PRE-EMPT TRANSPORT REQUIREMENTS
CuffInflated	STAFF
VentilationSatisfactory	Medical/Nursing/Orderly/PCAAssigned EQUIPMENT
Sedation/Paralytics	Transport MonitorAttached
AnalgesiaGiven □ or Not Indicated □	BVM/Mask/O2 supplyOn trolley
SedationGiven or Not Indicated	DRUGS
ParalyticsGiven or Not Indicated	Drugs/Infusions/PumpsPrepared □
Bite block (OPA)Inserted	
	DISPOSITION
DOCATURE	Radiology/CTReady
BREATHING Trauma:	ICUAccepted
DOES CHEST NEED DECOMPRESSION?	Operating Theatre Accepted
YES NO	
VentilatorConnected	
OxygenConnected	
FiO2Set for Sats >94%	
Mode Selected & Set	
CIRCULATION	
External HaemorrhageControlled	

SUMMARY

- While transitions in care may be a source of risk, they may also provide opportunity for 'rescue and recovery'
- Standardized communication tools exist
- · Inter-professional and inter-agency training is required
- "Culture eats process for breakfast."



ACKNOWLEDGEMENTS

- www.aucklandhems.com
- Dr. Sam Bendall
- Auckland City Hospital Emergency Department
- Auckland Rescue Helicopter Trust
- St John Ambulance
- NSW Health (Australia): BMJ Qual Saf 2012



