

Better outcomes - Patient Safety Programmes in Maternity Care

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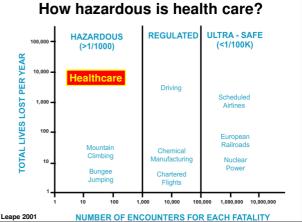
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Messages from this talk

- How safe is our practice?
- Aim = a better understanding of:
 - 1. Safety & Error in healthcare & HF
 - 2. High Reliability Organisations & the NHS
 - 3. Safety Culture & Just Culture
 - 1. The 'MORE OB' programme





"Each year in the USA 120,000 patients die because of medical error - that's equivalent to a jumbo jet crashing every day.... "

> Gerlin A. Healthcare's deadly secret: accidents routinely happen. Philadelphia Inquirer; Sept. 12, 1999



"Never Events"



"Girl whose brain was injected with GLUE awarded £24 million" Maisha Najeeb, 10, permanently brain damaged by mix-up at Great Ormond Street Hospital.....

January 28th 2014

"Never Events"



Maisha, who is now 13, was due to undergo treatment that involved injecting glue to block off bleeding blood vessels, and an injection of harmless dye to check the flow of blood around the brain and head.

However, solicitor Edwina Rawson from Field Fisher Waterhouse, said there was no system in place for telling the syringes apart and they were mixed up. She said the damage to Maisha's brain caused catastrophic and permanent brain damage.

How do we do in labour?

1 in 12 labours associated with adverse events

Neilsen P et al Obstet Gynecol 2007

- 50% of adverse events preventable with better care
- 'Human error' was a frequent finding in intrapartum deaths

thal Enquiry into Stillbirths & Deaths in Infancy Why Mothers Die 00/02, CEMD

Our recent "Near Miss"...a cord prolapse



Our recent "Near Miss"...a cord prolapse



Recurrent themes in Health Services...

- Emergency cases = 90% of mortality
- Leadership
 - Management
- Senior clinical staff involvement
- · Staffing & Skill mix in teams
- Patient safety
 - EWS
 - Escalation policies
 - CIRs



Issues in obstetrics...

Recurrent Themes:

- failure to recognise problems
- failure to refer
- inappropriate delegation
- lack of teamwork

Contribution of HF issues to Obstetric SUIs

'WORM' analysis applied:

a. Workmanship	44.2%	[knowledge, skills]
b. Omissions	61.6%	[SA, decision-making]
c. Relationships	47.7%	[communication, team-working]
d. Mentorship	31.2%	[leadership, multidisciplinary]
83% of cases exhibited Human Factor issues 79% of these involved 'multiple' HF issues		

Coroyannakis C et al 2013

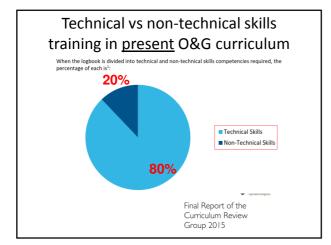
MBRRACE-UK Haemorrhage 17 deaths – mainly trauma & atony

Communication, Ownership, Leadership and Teamwork

Communication, ownership, clinical leadership and teamwork emerged once more as problematic areas in this review period. The main problems identified with communication involved

- disagreements in estimated blood loss in three women
- lack of communication of concerns regarding blood loss in five women
- not escalating to a senior when their condition deteriorated in two women

Paterson-Brown S & Bamber M. MBRRACE 2014





What are 'Human Factors'?

Made up of two components:

- 1. How humans work in a specified system or environment (includes ergonomics)
- 2. Non-technical skills which are cognitive, social and personal

'NTS' = Non-Technical Skills

Personal resource skills

- Managing stress
- Coping with tiredness & fatigue



The importance of organisational factors in enhancing patient safety

What does a good 'Safety Culture' mean?

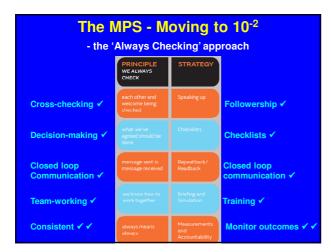
Places the highest value on safety, occupational health and environment

- people are always alert to expect the unexpected
- people fully understand what they should do
- · people are open to suggestions
- people believe their actions make a difference to themselves & to others
- managers do not manage, but show genuine leadership



Quantifying 'Reliability' & Safety

- A procedure that is 'reliable' 9 times ex 10 has
 10⁻¹ reliability
- So.... a 20% failure rate = >10⁻¹ reliability
- Systems with >10⁻¹ reliability are regarded to be 'chaotic'
- Airline & Nuclear industries have achieved 10⁻⁶ reliability for 'critical processes'
- Equivalent to 1 in 1,000,000 failure rate





A 'Just Culture'....

Ensures <u>balanced</u> accountability for both individuals and the organisation

- · Aim is to ensure patient safety
- Designing & improving systems in the workplace
- Comprehensive data & analysis of error
- Specific tools to enhance safety
- The principle of a 'blame free culture'
- ... but serious individual errors & violations are investigated and disciplined as appropriate

A 'Just Culture'....

Ensures <u>balanced</u> accountability for both individuals and the organisation

- Staff feel free to report errors
- HROs also encourage '<u>mindfulness</u>' in their staff:-
 - 1. A constant concern not to fail
 - 2. Respect for expertise regardless of rank
 - 3. Able to adapt to unusual circumstance
 - 4. Can task focus but maintain a bigger view 5. Can *'flatten the hierarchy'* when required

For Health Services to move towards 'HROs'

We must develop a SAFETY CULTURE We must develop a JUST CULTURE

- 1. Develop comprehensive CIR systems
- 2. Embrace the 'duty of candour'
- 3. Develop rapid review, no blame systems

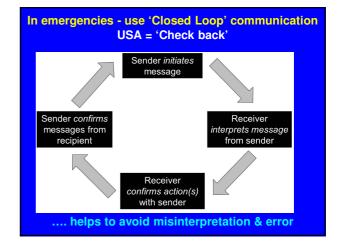
The problem with root cause analysis Mohammad Farhad Peerally.¹ Susan Carr,² Justin Waring.² Mory Dizon, Woork¹ Our current approach to root cause analysis: is it contributing to our failure to improve patient safety?

LEADERSHIP, FOLLOWERSHIP & TEAM-WORK



Effective Teams in Emergencies

- Shared aim / mental model
- Step back 'helicopter view'
- Strong leadership 'active listening' & specific task allocation
- Active followership shared responsibility 'watch out for each other'
- Clear decision-making
- Clear communication

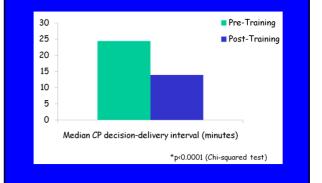


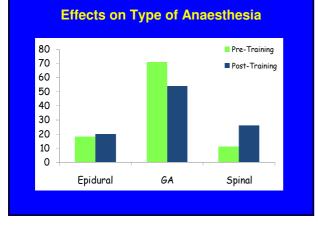
Effective labour ward teams - eclampsia

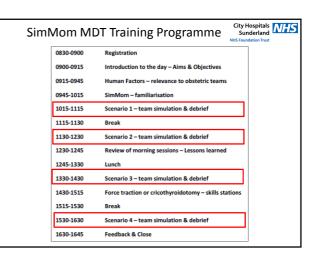
- Characteristics of effective teams: teams that managed to give magnesium within 10 min of the drill:
 - stated the emergency (fit) significantly earlier: 36 vs 50s (p=0.051, MannU)
 - proportion of directed commands was higher: 71% vs 26% (p=0.03)
 - overall communication less
 - SBAR-like structure to communication

Siassakos et al. 2011

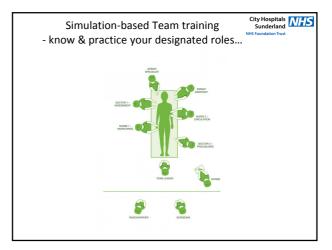
Cord Prolapse – effects on DDI



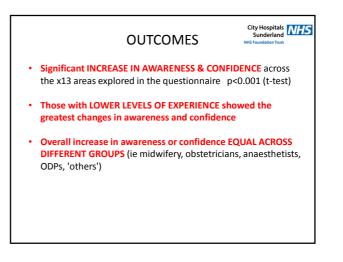


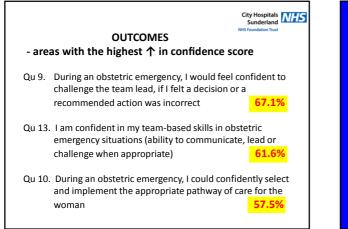
















Patient Safety Programmes

- To be effective blend top-down management with bottom up engagement & innovation
- Require a combination of standards, innovation, iterative learning as well as a change in culture
- Multiple strategies are required:
 - simplification & standardisation of work processes
 - improving NTS (teamwork, leadership, communication)
 - a 'Just Culture' that allows 'learning from mistakes'

Comore OB Taking care of life

MORE^{OB} (Managing Obstetrical Risk Efficiently)

- Canada experienced a significant shortage of staff
 willing related to escalating litigation
- MORE^{OB} Programme developed by the Society of Obstetricians and Gynaecologists of Canada (SOGC) in 2001



MOREOB

- Based on the principles of High Reliability Organisations
- A comprehensive structured 'performance improvement intervention' designed to instill an enduring culture of patient safety
- Targets *multidisciplinary obstetric teams* to achieve better patient outcomes



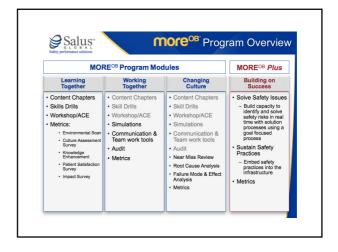
MOREOB

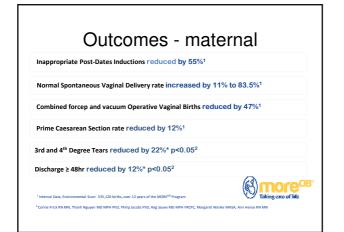
- 3 modules over 3 years.
- · Tools & metrics:
 - 17 online clinical chapters updated annually by SOGC committee
 Unit-focussed Culture Assessment Survey (CAS)
- · In-situ, high-fidelity, low-tech simulations
- · Multidisciplinary workshops;
- Individual pre- & post- knowledge tests
- · Regular assessments against unit goals

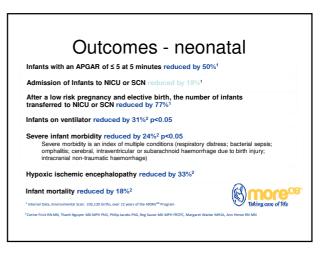


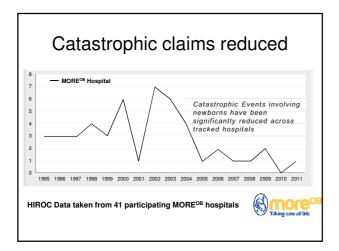
MORE^{OB} Plus (2008)

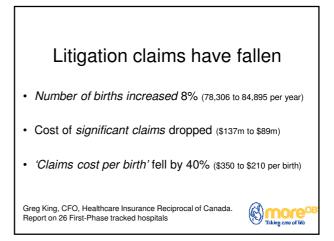
- Obstetric teams *demanded* to remain engaged with the MORE^{OB} Programme beyond its three-year duration
- MORE^{OB} *Plus embeds the culture of safety &* supports teams to identify & resolve unit-specific risks

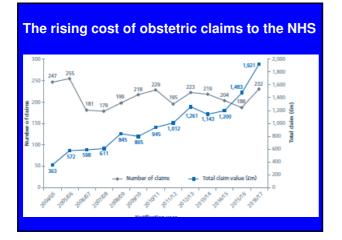


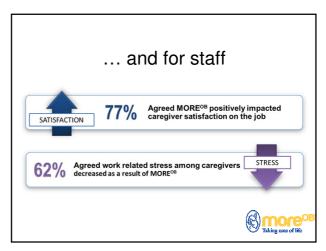












Embedding patient safety requires culture change - strong & effective clinical leadership is a vital element

How we behave matters

"We believe that kindness, valuing people and being thoughtful of all around us are vital to creating the right culture for safety and are leadership traits that we both embody and promote.

A positive culture in the NHS

"An organisation with a safety culture is one where patient safety is at the forefront of everyone's minds...It influences the overall vision, mission and goals of an organisation. That is, it influences everything you do."

'Enhancing patient safety' Safer clinical care & awareness of HF

One simple aim

Maximise patient safety at all times

The Multidisciplinary Team

 midwives, doctors, managers, medical social workers, health care assistants, administrative, clerical & domestic





