Seven Steps to Safer Surgery

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"Choose well, cut well, get well".

-Old surgical aphorism.

Aims and objectives for the session





- Safety culture/systems
- Human factors and teams
- Involving patients in decisions
- Checks and checklists
- Assessment and recovery
- Learning from harm
- The importance of leadership



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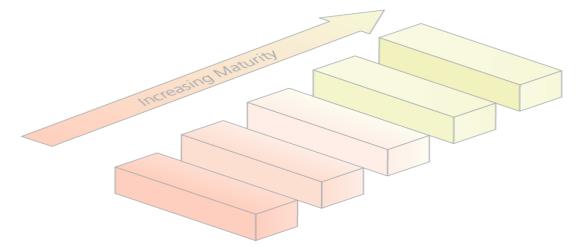


Understanding safety culture

How good are you?

Manchester Patient Safety Framework (MaPSaF(

The levels of patient safety culture explained				
Level	Description			
A – Pathological	Why do we need to waste our time on patient safety issues?			
B – Reactive	We take patient safety seriously and do something when we have an incident.			
C – Bureaucratic	We have systems in place to manage patient safety.			
D – Proactive	We are always on the alert/thinking about patient safety issues that might emerge.			
E – Generative	Managing patient safety is an integral part of everything we do.			



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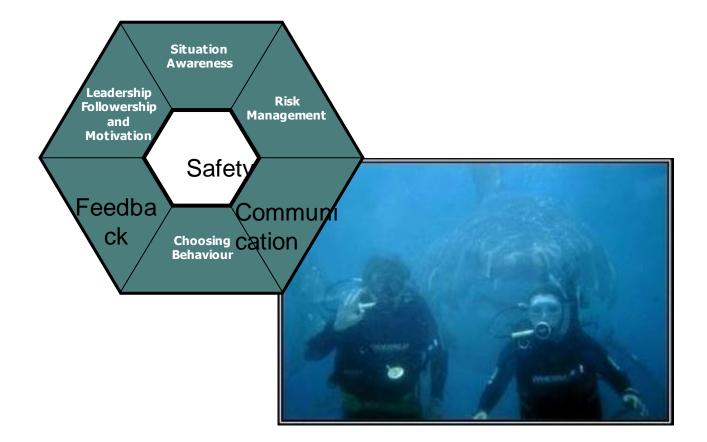


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Human factors

- Human factors and safety
- Team behaviours
- Risk management
- Responding to error



NASA / UT Teamskills

Briefing The effective briefing will be operationally thorough, interesting and will address co- ordination, planning and potential problems.	Leadership / Followership / Concern for the Task The extent to which appropriate leadership and followership are practiced.		
Communication and Decision Reflects the extent to which free and open communication is practiced. Active participation in decisions encouraged.	Interpersonal Relationships / Group Climate Reflects the quality of relationships among the team, the overall climate in the workplace		
Team Self Feedback The extent to which a team recognises the need to give and receive feedback.	Preparation / Planning / Vigilance Reflects the extent to which teams plan ahead, maintain situation awareness and anticipate contingencies.		
Enquiry / Advocacy / Assertion Team members advocate, with appropriate persistence, the course of action they feel is best, even if it involves disagreement.	Workload / Distractions This is a rating of time and workload management. It reflects how the team distributes tasks, avoids overload and distractions.		

Preoccupation with failure Reluctance to simplify Sensitivity to operations Commitment to resilience Deference to expertise

High reliability organisations

- Nuclear industry
- Air traffic control
- Aircraft carriers







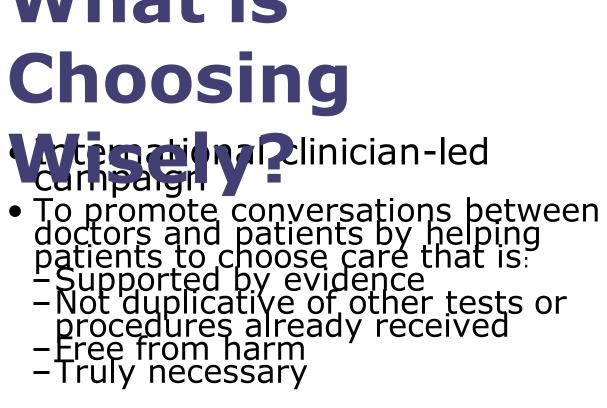
Lessons from HROs

- Tend to have strict training, discipline, adherence to procedures, protocols and routine (Reason, (1997
- Acceptance and understanding of standardisation, shared assumption and values (culture(
- Response to unexpected or crisis (Weick and Sutcliffe(

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 \checkmark Now being implemented in the UK



How else can we involve patients?

- With your neighbors, discuss:
 - · How do you involve patients in their care?
 - What advantages might this bring?
 - Where is your institution on this journey?

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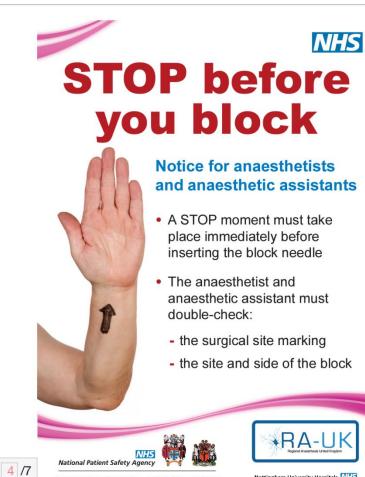
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Why do a pre-list brief?

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Quick guide to	Brie	ting
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What is it?	 The plan for the day is discussed by all team members
When?	 Initiate the briefing before the first case of the day, once all team members are available in the department
Why?	 Ensure a shared understanding of the plan for the day Anticipate and prepare for problems
Who is leading the briefing?	 It can be any member of staff Consider rotating the lead including and encouraging junior staff/trainees?
People	Team members introduce themselves Clarify roles, responsibilities, actions and interactions - who's doing, what, where, when Who's missing? Does everyone feel comfortable about today? Qualify any supervision/assessment considerations Remember - we're part of a team Everybody has a valid role, perspective and opinion Additional personnel e.g. multi-speciality case/perfusionists/radiography
List	Highlight any issues arising from the previous list's debrief Overview of the list O Any changes? Any changes? If any changes? If emergency procedures are needed what changes may be necessary? Details of each case
Equipment	What, where, when and how Loan equipment Decontamination Issues Consumables
Questions and concerns	 Check for any misunderstandings Ask the team to highlight potential risks and hazards Identify and discuss contingency and mitigation plans Agree when the debrief will be performed

Note: Briefing is one of the Five Steps to Safer Surgery. Small tests of change and local adaption of the WHO Surgical Safety Checklist are encouraged, to identify aspects of the Checklist that might be usefully moved to the pre-list briefing. This guidance is consistent with guidance from NPSA and Patient Safety First on implementing the WHO Surgical Safety Checklist.



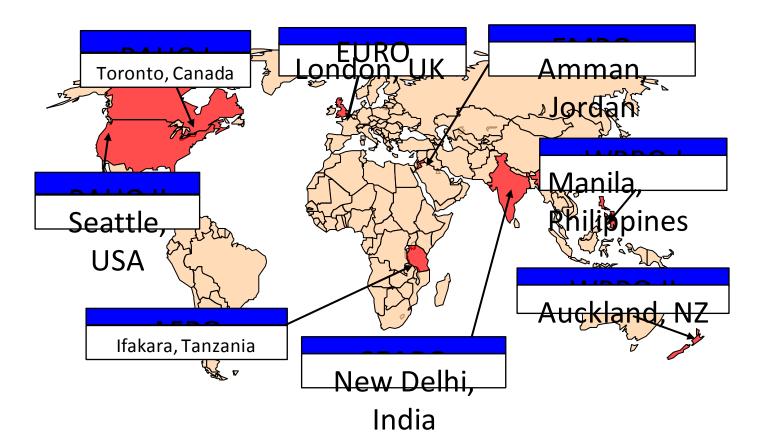
SAFE ANAESTHESIA LIAISON GROUP

Nottingham University Hospitals NHS

- For unilateral blocks •
- Simple double-check •
- Separate from WHO checklist
- Immediately before 0 insertion of needle for block
- Initiated by anyone • (Anaesthetist / ODP / other theatre staff)

The WHO Checklist was piloted in 8 cities ...





...and was found to reduce the rate of **DOSTOPERATIVE** Haynes et al. A Surgical Safety complexed to as ity and Mortality in a Global 1 100 00 10 51 11 His 10 100 (0 10 10)

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Results – All Sites

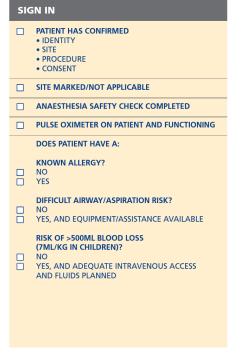
	Baseline	Checklist	P value
Cases	3733	3955	-
Death	%1.5	%0.8	0.003
Any Complication	%11.0	%7.0	0.001>
SSI	%6.2	%3.4	0.001>
Unplanned Reoperation	%2.4	%1.8	0.047

Haynes et al. A Surgical Safety Checklist to Reduce Morbidity and Mortality in a Global Population. New England Journal

World Health Organization

SURGICAL SAFETY CHECKLIST (FIRST EDITION)

Before induction of anaesthesia **DEFERENCE** Before skin incision **DEFERENCE** Before patient leaves operating room



SIGN OUT TIME OUT CONFIRM ALL TEAM MEMBERS HAVE NURSE VERBALLY CONFIRMS WITH THE INTRODUCED THEMSELVES BY NAME AND TEAM: ROLE THE NAME OF THE PROCEDURE RECORDED SURGEON, ANAESTHESIA PROFESSIONAL AND NURSE VERBALLY CONFIRM THAT INSTRUMENT, SPONGE AND NEEDLE PATIENT COUNTS ARE CORRECT (OR NOT SITE APPLICABLE) PROCEDURE HOW THE SPECIMEN IS LABELLED ANTICIPATED CRITICAL EVENTS (INCLUDING PATIENT NAME) SURGEON REVIEWS: WHAT ARE THE WHETHER THERE ARE ANY EQUIPMENT CRITICAL OR UNEXPECTED STEPS. **PROBLEMS TO BE ADDRESSED OPERATIVE DURATION, ANTICIPATED BLOOD LOSS?** SURGEON, ANAESTHESIA PROFESSIONAL AND NURSE REVIEW THE KEY CONCERNS ANAESTHESIA TEAM REVIEWS: ARE THERE FOR RECOVERY AND MANAGEMENT ANY PATIENT-SPECIFIC CONCERNS? **OF THIS PATIENT** NURSING TEAM REVIEWS: HAS STERILITY (INCLUDING INDICATOR RESULTS) BEEN CONFIRMED? ARE THERE EQUIPMENT **ISSUES OR ANY CONCERNS?** HAS ANTIBIOTIC PROPHYLAXIS BEEN GIVEN WITHIN THE LAST 60 MINUTES? YES □ NOT APPLICABLE IS ESSENTIAL IMAGING DISPLAYED? YES NOT APPLICABLE

THIS CHECKLIST IS NOT INTENDED TO BE COMPREHENSIVE. ADDITIONS AND MODIFICATIONS TO FIT LOCAL PRACTICE ARE ENCOURAGED.

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Purpose of pre-operative assessment

- Swabs, infection risk, MRSA
- Consent, understanding, reduce stress
- Fitness for anaesthesia, reduce cancellations on health grounds, reduce avoidable anaesthetic risk
- Agree dates, reduce DNA rates
- Ensure availability of necessary equipment or staff or appropriate beds

POA and planning is an essential part of the planned care pathway which enhances the quality of care in a number of ways.

If a patient is fully informed, they will be less stressed and recover more quickly.

A health check ensures good medical health before anaesthesia and surgery.

Planning admission and discharge individually ensures that patient and carers know what to expect facilitating earlier post operative care at home.

Cancellations due to patient ill health or DNAs are reduced.

Admission on the day of surgery and early discharge are more likely.

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Other peri op safety considerations

- SSI bundles
- CVC/PVC care
- Retained packs/swabs/instruments

ERAS

- Reduced LOS
- Reduced morbidity
- Greater patient empowerment
- Better pain control
- Faster physiological return to normality

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How to learn

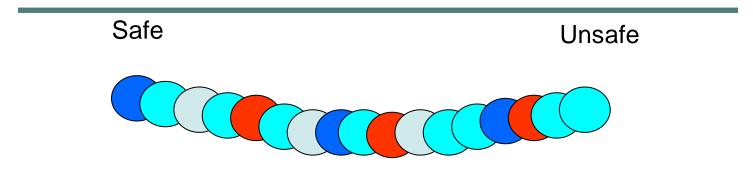
- Reporting
 - Incidents
 - Near misses
- Patient experience questionnaires
- Complaints
- Audit and M and M

Learning from Error

- Titan Rocket rewarding not punishing error reporting
- Reporting systems and the response to them
- The patient voice
- Error into action and the knowledge from the near miss



The Error Chain

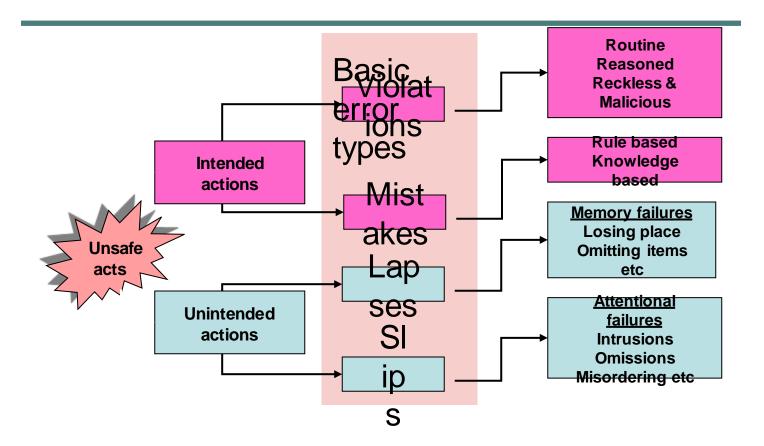


A combination of events, circumstance, activities and decisions which lead to an unsafe outcome

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ERROR TYPES

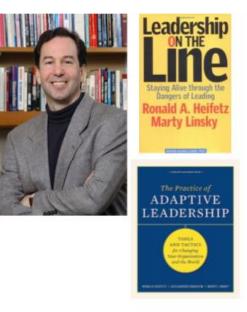


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Adaptive Leadership

- Avoid technical solutions and work avoidance.
- Step up onto the balcony to see what is really going on.



System factors to enable safer care

- Leadership at all levels
- A culture of openness that supports learning
- Effective team working
- Effective use of information and data and technology that supports it



Thank you for your attention شکر الکم علی اهتمامکم.

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