

Non Technical skills

How SIM training relates to real emergencies

Aircraft

Nuclear

DON'T PANIC

“Should never encounter anything survivable in real life you have not had in the Sim”

Communicating during sims / emergencies

Lego

Keeping records during emergencies

Have a simple form

Time –

Intervention –

How much?–

Keep it with your gear

Practice using it

Division of labour during SIMs / emergencies

Your team

Your practice

You need to practice

You need defined roles

M

I

S

T



M echanism

I njuries

S igns and Symptoms

T reatment

Does this make a difference?

NEJM

Aim to study if a simple intervention involving non technical skills actually can make a difference in outcome.

Results

7600 consecutive patients
all undergoing non cardiac surgery
8 hospitals in 8 cities in 8 countries

	Pre intervention	Post Intervention	P
Death rate	1.5%	0.8%	0.003
Inpatient Complications	11%	7%	0.001

Before induction of anaesthesia

(with at least nurse and anaesthetist)

Has the patient confirmed his/her identity, site, procedure, and consent?

- Yes

Is the site marked?

- Yes
 Not applicable

Is the anaesthesia machine and medication check complete?

- Yes

Is the pulse oximeter on the patient and functioning?

- Yes

Does the patient have a:

Known allergy?

- No
 Yes

Difficult airway or aspiration risk?

- No
 Yes, and equipment/assistance available

Risk of >500ml blood loss (7ml/kg in children)?

- No
 Yes, and two IVs/central access and fluids

Before skin incision

(with nurse, anaesthetist and surgeon)

Confirm all team members have introduced themselves by name and role.

Confirm the patient's name, procedure, and where the incision will be made.

Has antibiotic prophylaxis been given within the last 60 minutes?

- Yes
 Not applicable

Anticipated Critical Events

To Surgeon:

- What are the critical or non-routine steps?
 How long will the case take?
 What is the anticipated blood loss?

To Anaesthetist:

- Are there any patient-specific concerns?

To Nursing Team:

- Has sterility (including indicator results) been confirmed?
 Are there equipment issues or any concerns?

Is essential imaging displayed?

- Yes
 Not applicable

Before patient leaves operating room

(with nurse, anaesthetist and surgeon)

Nurse Verbally Confirms:

- The name of the procedure
 Completion of instrument, sponge and needle counts
 Specimen labelling (read specimen labels aloud, including patient name)
 Whether there are any equipment problems to be addressed

To Surgeon, Anaesthetist and Nurse:

- What are the key concerns for recovery and management of this patient?