

Making judgements IN (and ON) the messy world of medicine

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Anaesthetist

Professional practice
Adapting to change

Educator

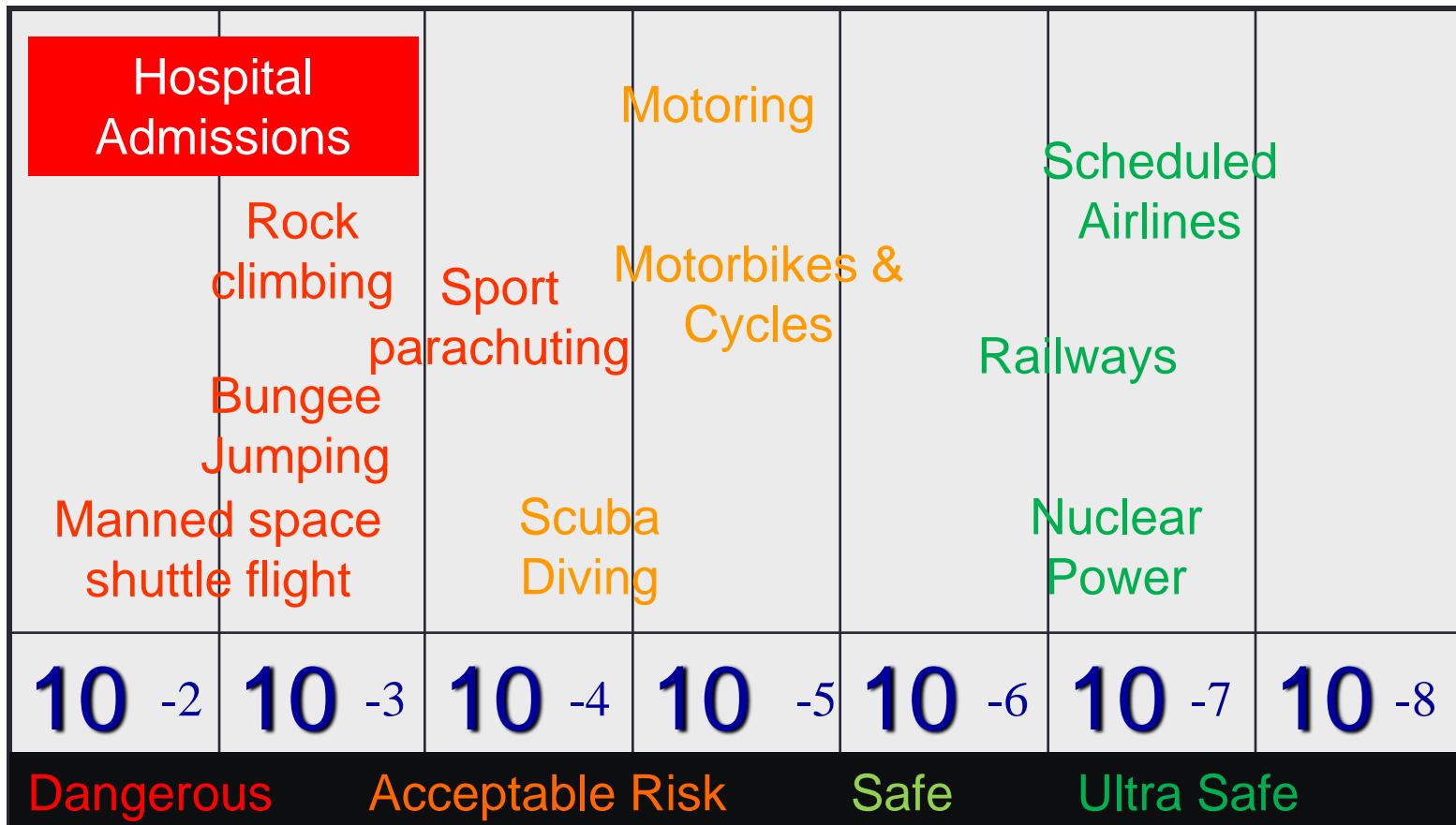
Applying knowledge
Technical skills
Non technical skills

Psychology

Human performance
Expertise & excellence
Organisational learning

How safe is healthcare?

Risk of Fatal Outcome per Exposure



Aviation Safety & Healthcare

- Strong appeal
- High face validity



Arguing pilots fly 150 miles past runway

Conversation about airline policy meant Northwest Airlines pilots 'lost situational awareness' says flight safety board



● A Northwest Airlines plane in Minneapolis. Photograph: Craig Lassig/EPA

"They were in a heated discussion over airline policy and they lost situational awareness," the US National Transportation Safety Board (NTSB) explained.

Ground controllers lost contact with the pilots just before 7pm and radio contact was not re-established for more than an hour.

The Federal Aviation Administration notified the military, which put fighter jets on alert at two locations.

A trip on my budget airline.....

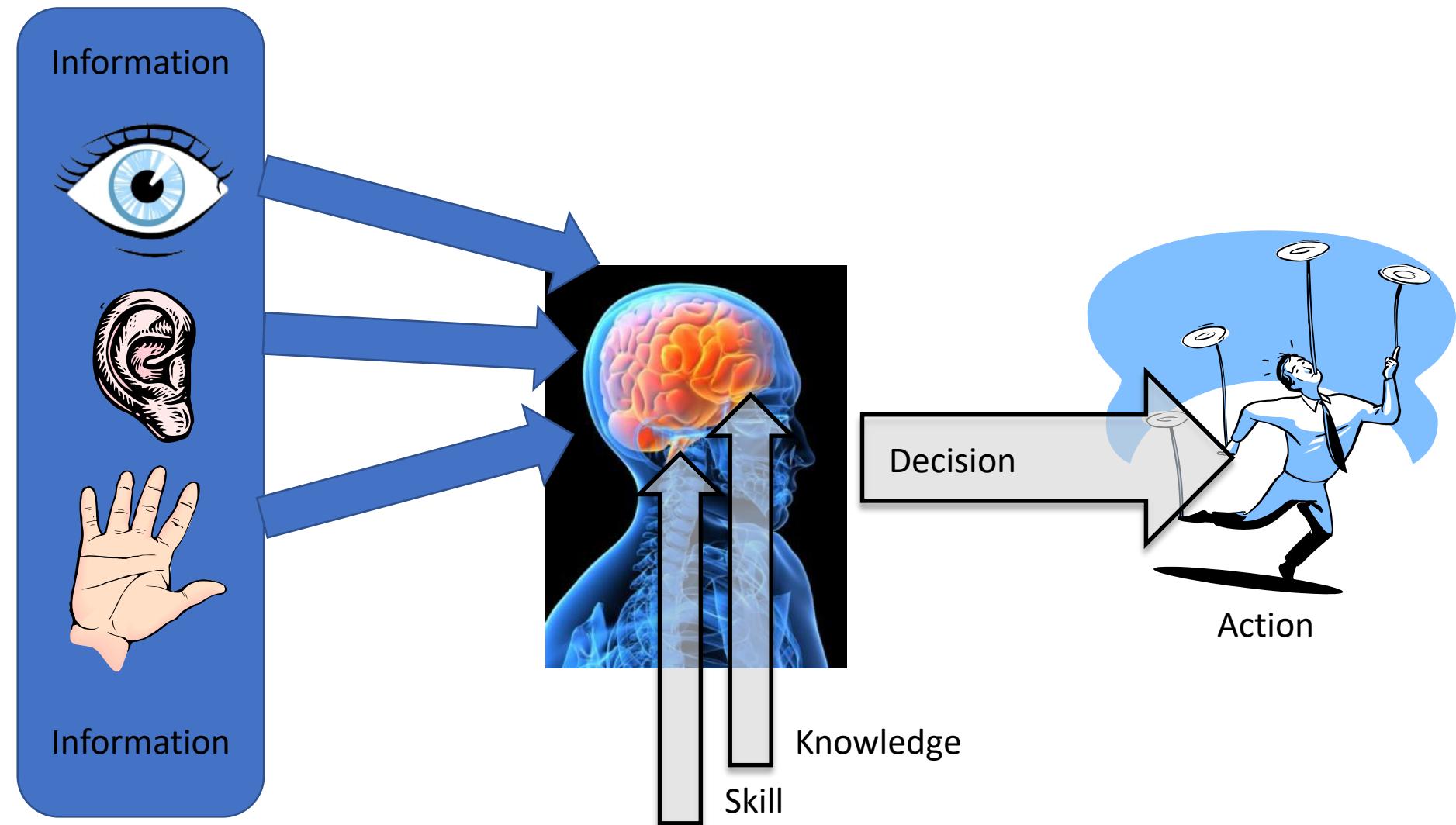




The Diagnostic Trajectory

SUCCESS IS A JOURNEY,
NOT A DESTINATION

Conventional Wisdom?



MEDICAL HISTORY FORM

Patient's name _____

DOB _____ Weight _____

ALLERGIES
If yes, please specify
Latex/Rubber/Eggs/Soybeans/Peanuts/Other
Please list all medications you are allergic to

CURRENT SYMPTOMS
Cough/Sputum > 3 weeks
Fever, unexplained
Weight loss / anorexia
Night sweats
Fatigue

MEDICAL HISTORY
Asthma
Cancer
Depression
Epilepsy
Ear throat
Ear problems
Heart disease
Liver disease

FAMILY HISTORY
Heart Disease

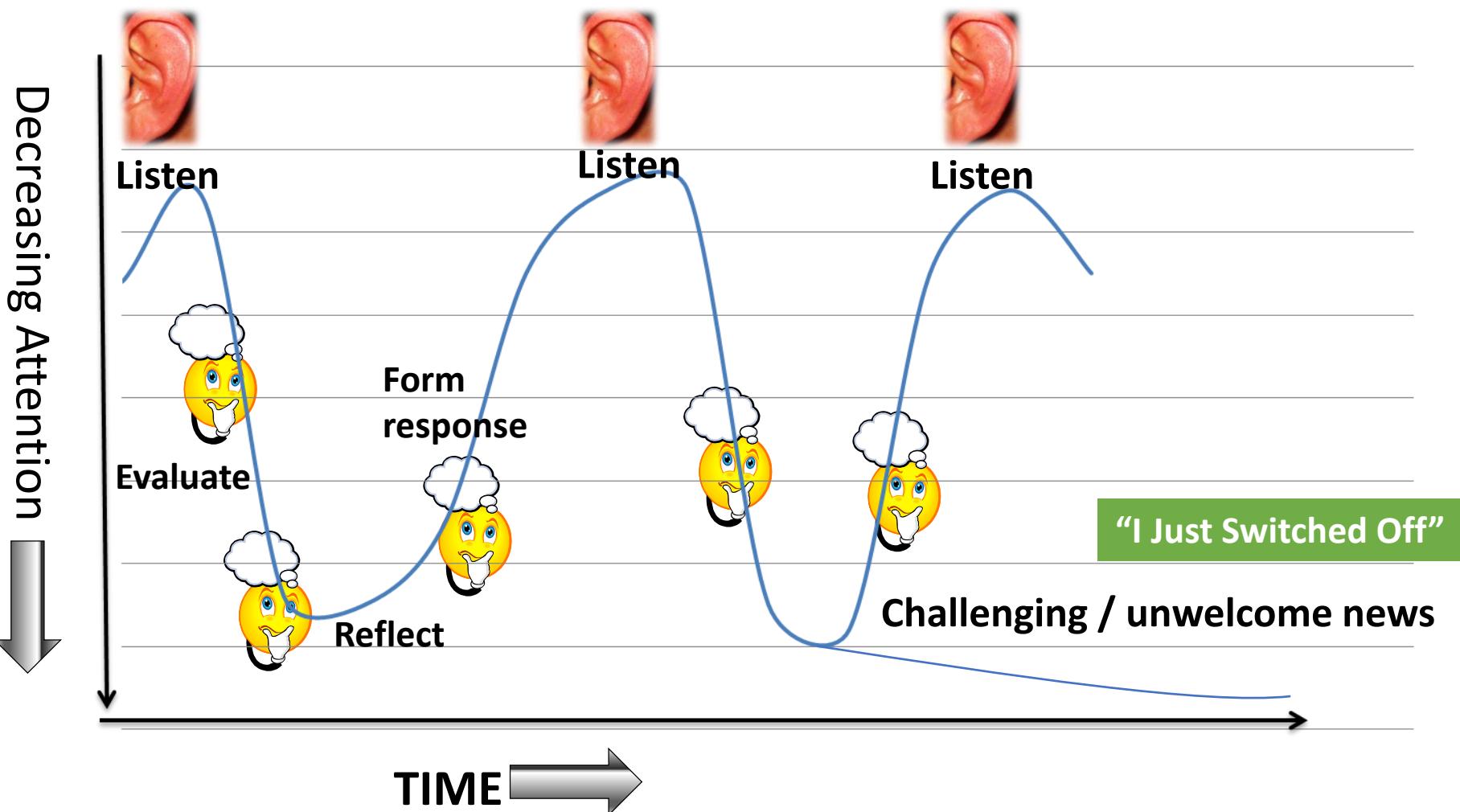
SOCIAL HISTORY
Do you smoke? _____
Do you drink? _____
Do you use drugs? _____

WISEGEEK



Taking a history

Attention loop & shared decision making



MEDICAL HISTORY FORM

Patient's name _____

DOB _____ Weight _____

ALLERGIES
If yes, please specify
Latex/Rubber/Eggs/Soybeans/Peanuts/Other
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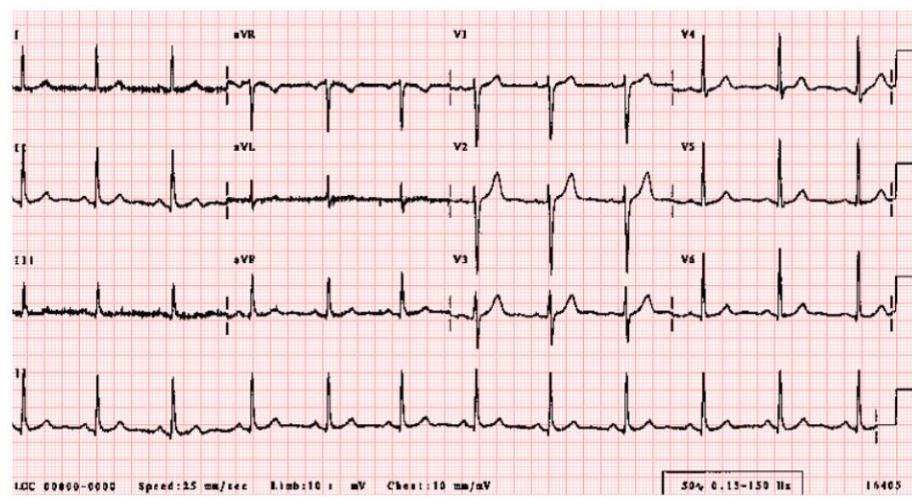
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Do you smoke? _____
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WISEGEEK









- 83% radiologists did not see the gorilla
- Gorilla = 48X size of nodule on a CT scan
- Don't see what you are not expecting to see

Drew, Vo and Wolfe (2012)

**Inattentional
blindness**



Planning the journey



THE NEW YORK TIMES BESTSELLER

THINKING,
FAST AND SLOW



DANIEL

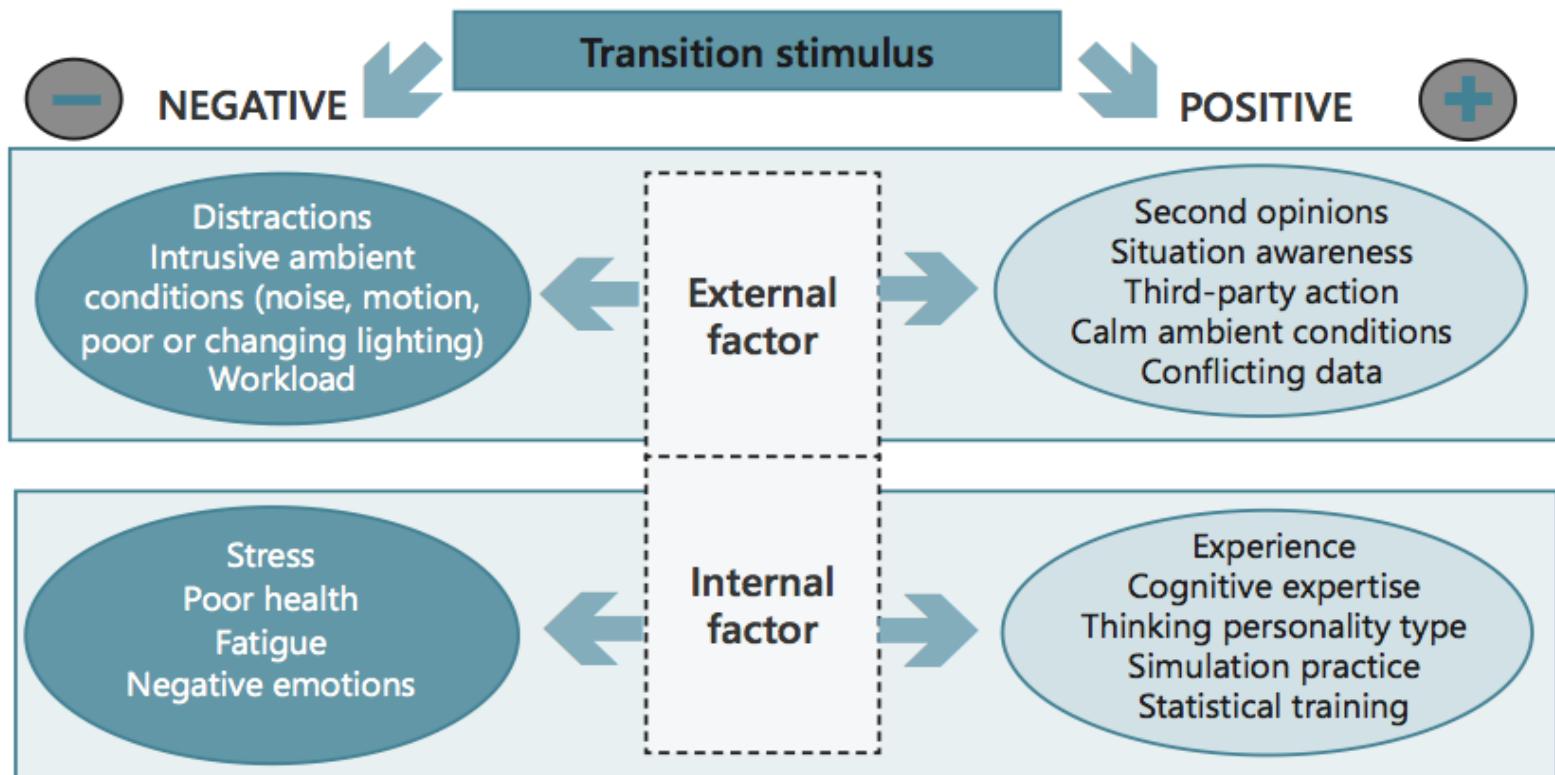
KAHNEMAN

WINNER OF THE NOBEL PRIZE IN ECONOMICS

"[A] masterpiece . . . This is one of the greatest and most engaging collections of insights into the human mind I have read." —WILLIAM EASTERLY, *Financial Times*

Rational versus Intuitive Decisions

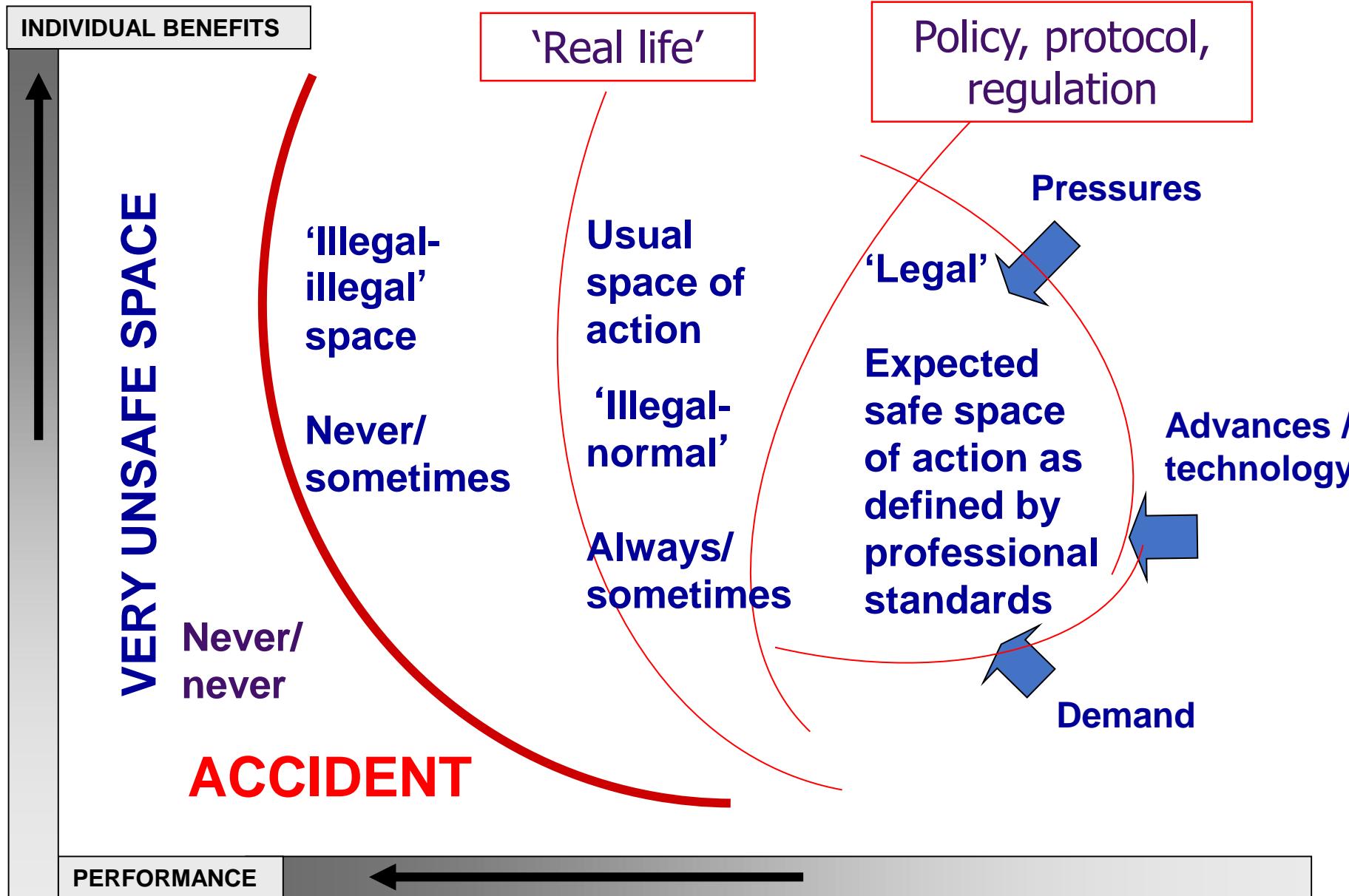
Factors affecting the transition between systems I and II





Departure

Systemic migration to boundaries

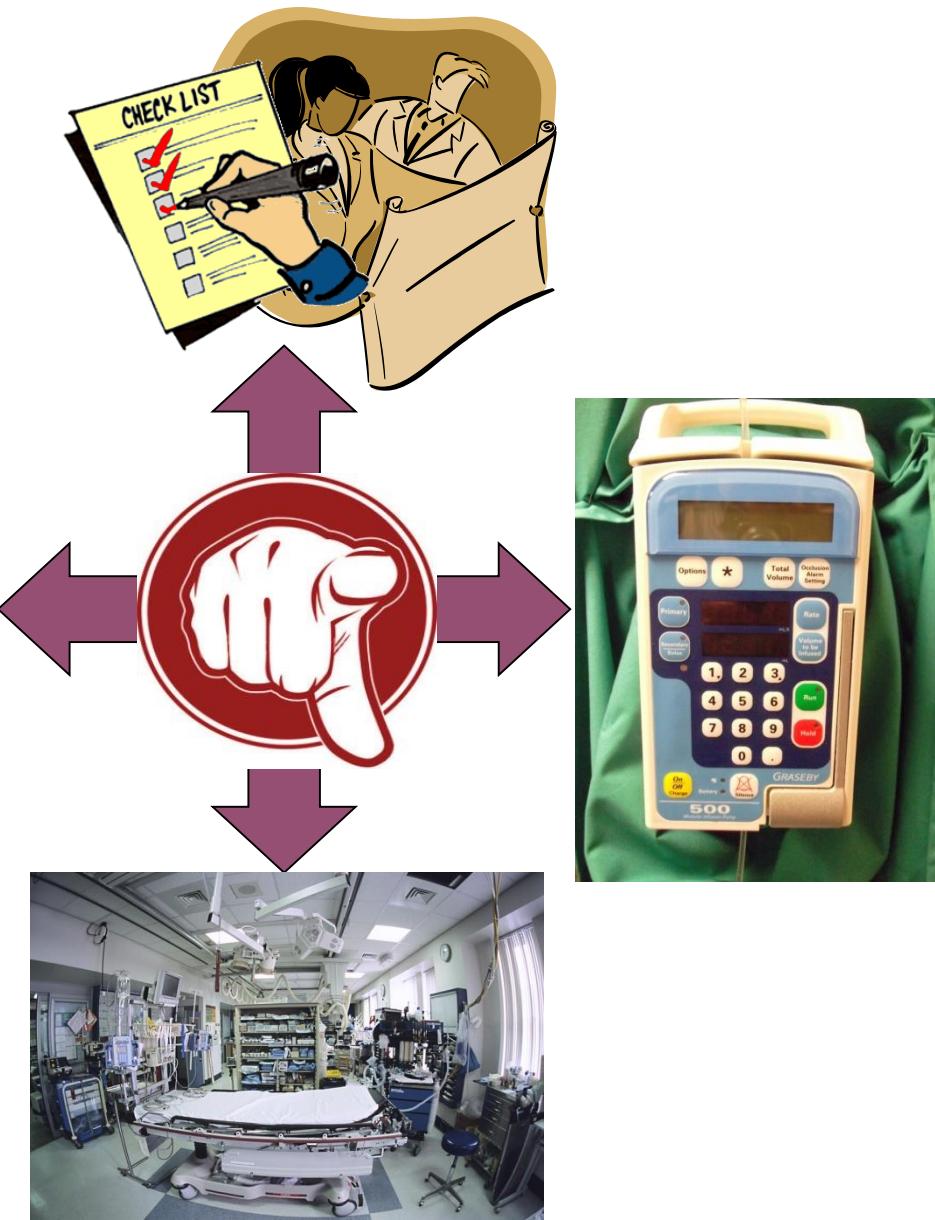


Work as imagined – describes the ‘legal space’ with boundaries defined by policy and regulations

Real life – **work as done** – is the Messy Reality ('illegal normal') of everyday workarounds performed by staff to get things done

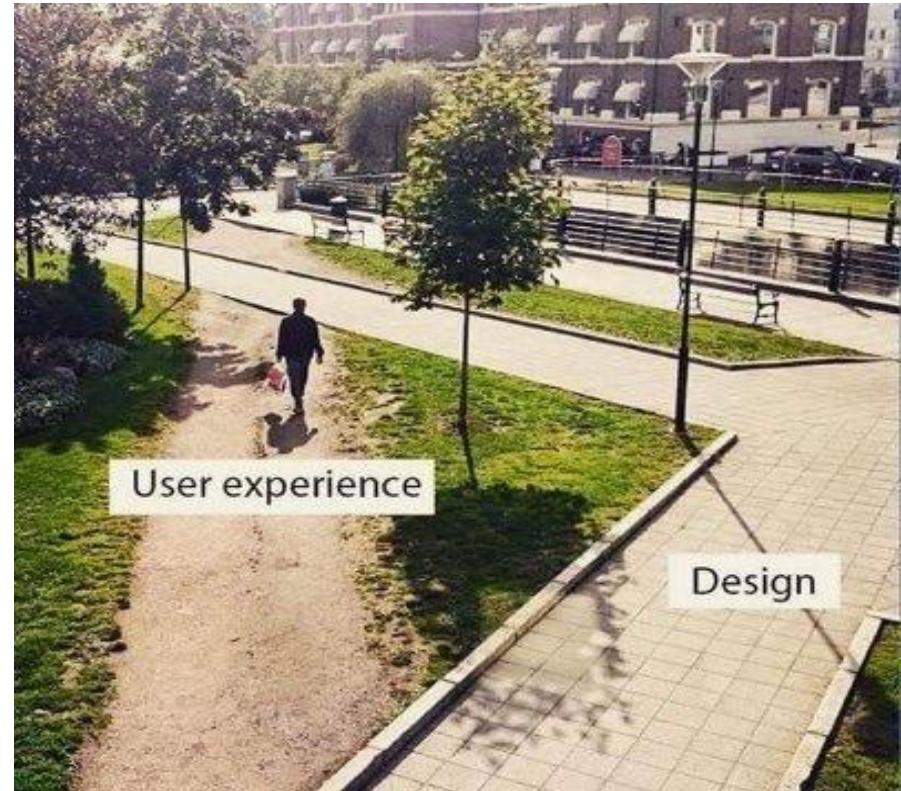
Gradual extension of this practice can allow us to slip closer to the final boundary beyond which patient harm can arise.

This is often followed by a response of **recalibration** which takes staff back to the safe space, but over time they will often begin to drift again and forget where edge of cliff is.



Optimal working environments?

- Often healthcare settings described as 'ergonomic nightmares'
- Noise
- Distraction
- Layout
- Clutter and cables



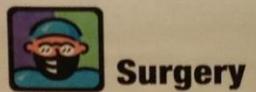






CLINICAL AREA.

NO FOOD
TO
BE CONSUMED IN THIS AREA



Surgery

Thank you



**NO
DRINKS TO
BE LEFT
HERE!**







Difficult problem - complex dynamic healthcare setting - resource constraints - high 'production' drive constantly pushing safety barriers

Mary Dixon-Woods @MaryDixonWoods

Nurses experience an extraordinarily high number of interruptions, and it's not straightforward to reduce. twitter.com/AskDrPhyllisRN...

5:43 PM - 26 Oct 2017

3 Retweets 2 Likes



The Telegraph

Home News World Sport Finance Comment Culture Travel Life Women Fashion

Women Men Motoring Health Property Gardening Food History Relationships

Health News Health Advice Diet and Fitness Wellbeing Expat Health Pets Health Bri

HOME » HEALTH » HEALTH NEWS

Nurses wear 'do not disturb' signs during drug rounds

Nurses are wearing red "do not disturb" signs while they give out drugs to patients in a controversial attempt to reduce the number of mistakes made on hospital wards.



The survey found an absence of humanity on some NHS wards Photo: LES WILSON







All,

On this Wednesday, 11th October, the PACS downtime planned for 26th September but postponed due to the Black Alert will take place.

- **There will be a two hour outage between 19:00 and 21:00**
- **No imaging will be viewable outside of Radiology**

Radiology will continue to operate and all imaging services will be available, however we will be unable to distribute any new imaging or reports in the normal way and any historical imaging already held within PACS will not be available either.

The normal business continuity plan will apply. All images produced on the day will be available for viewing within the respective Radiology departments.

IEP transfers will not be available during this time. Please request image transfers via Notis as normal; They will be dealt with once the system is restored.

Apologies for the inconvenience this downtime will cause.



Teaching trust pulls out of trouble-hit vanguard IT project

University Hospitals of Leicester Trust has pulled out of the £30m East Midlands Radiology consortium amid mounting concerns for patient safety and repeated system failures.



Patient images sent by taxi after £30m IT system breaks down

Doctors have been forced to send images from patient scans on DVDs in taxis to neighbouring hospitals after a £30m IT system failed across eight hospitals.



Trust director promises action after 'significant' IT disruption

The medical director of Nottingham University Hospitals Trust has promised to act after the rollout of a digital record system caused widespread disruption.



Exclusive: Consultant backlash over patient record system 'disaster'

Outcry from dozens of senior consultants has forced one of the country's largest teaching hospitals to review its £14m digital patient record system amid fears over patient safety.



Revealed: 21 trusts consistently underperforming on A&E

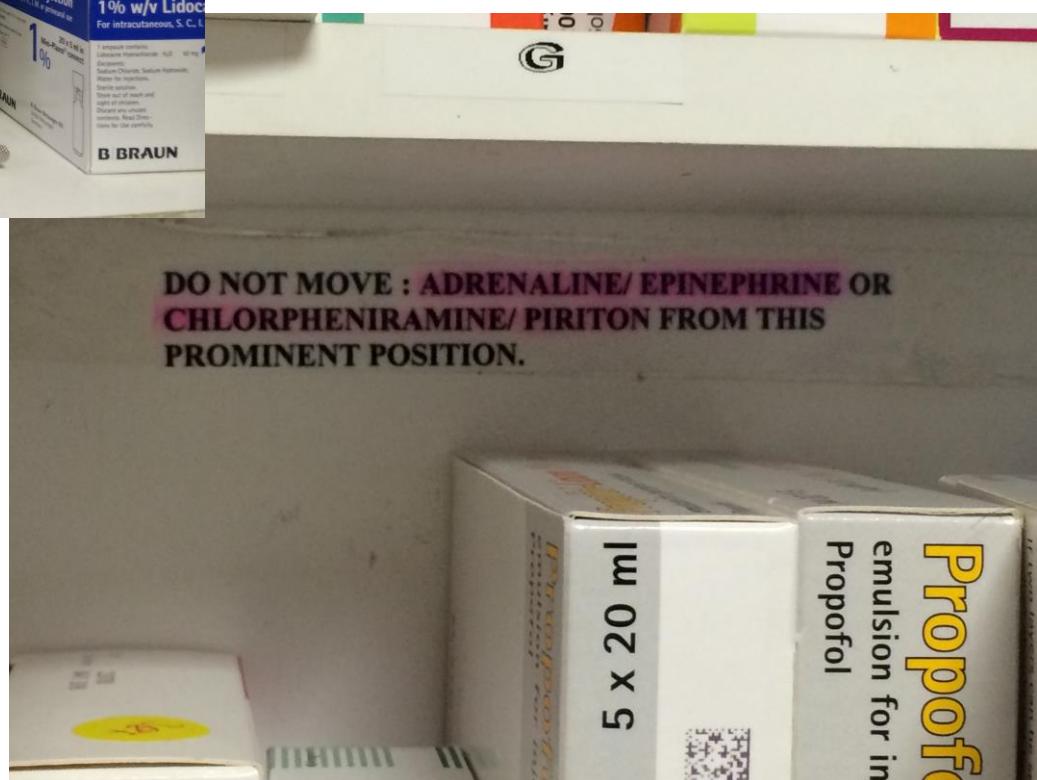
There are 21 trusts whose performance against the four hour emergency target has been consistently below 85 per cent since April, HSJ analysis reveals.



Trust chief orders review into 'unfit' IT system

Nottingham University Hospitals Trust is to commission an external review into an electronic patient notes system described by the trust chief executive as "not fit for purpose".







FINISHED FILES ARE THE RESULT OF YEARS OF SCIENTIFIC STUDY COMBINED WITH THE EXPERIENCE OF MANY YEARS.

INTERNAL MEMORANDUM

To: Anaesthetists, Surgeons, Theatres Team leaders and Theatre staff, Pharmacy NNUH
From: Procurement and Medicines Information, Pharmacy Department
Ext: 64185
Date: 20th October 2017

Re: *** Caution Required – Potential risk of mis-selection ***

Manufacturer's supply problem with Bupivacaine and Adrenaline 0.25% w/v, 1 in 200,000 Injection

There is manufacturer's supply problem with our current supplier (Torbay) of Bupivacaine and Adrenaline 0.25% w/v, 1 in 200,000 injection. Stocks are very low within pharmacy and unfortunately we do not yet have a date when supplies will be resumed.

An alternative preparation of the same strength has been sourced, however it has a very similar appearance to Bupivacaine and Adrenaline 0.5% w/v, 1 in 200,000 injection, which is also used in theatre areas. See table below:

Bupivacaine and Adrenaline Injection 0.25% w/v, 1 in 200,000 (Alternative for supply problem)	Bupivacaine and Adrenaline Injection 0.5% w/v, 1 in 200,000 (Existing product)

A number of theatre areas stock BOTH strengths. Please be extra vigilant when choosing the preparation you require.

Both products will be over-labelled with an additional sticker to remind staff to take care when selecting the appropriate strength.

It is likely both products will be in circulation from the middle of next week (wc 23rd October)

For further information please contact your pharmacy Theatres team at City (ext 59724) or QMC (ext 67622).

If you have any queries, please contact Medicines Information on ext 64185.

We are here for you.

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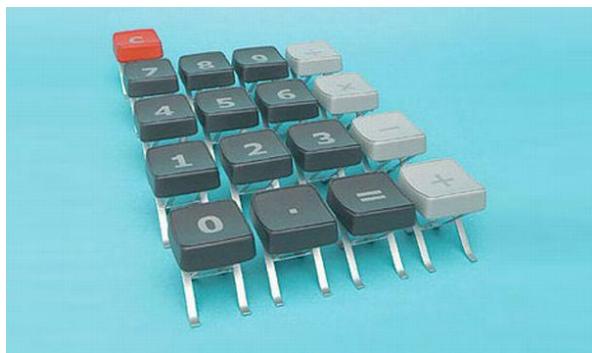
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Last Updated: Tuesday, 23 September, 2003, 19:28 GMT 20:28 UK

[Printable version](#)[E-mail this to a friend](#)[Printable version](#)

Anger as fatal jab doctor freed

A father has called the legal system "ridiculous" after the doctor responsible for the injection which killed his son walked free from jail.



Wayne Jowett died a month after the mistake

Dr Feda Mulhem was sentenced to eight months after admitting unlawfully killing cancer patient Wayne Jowett and a further 10 months on five unrelated assault charges.

But having already served 11 months on remand - more than half his sentence - Mulhem, of Stanley Road, Leicester, was released from custody.

Mr Jowett, 18, died after a toxic cancer drug was wrongly injected into his spine at Nottingham's Queen's Medical Centre in 2001.

The teenager was undergoing treatment for a form of leukaemia when the mistake happened - and was actually in remission from the disease.

'Sour taste'

Mr Jowett's father, also called Wayne, said: "Eight months for the killing of my son is absolutely ridiculous.

"It leaves a sour taste in my mouth."

Delivering the sentence, Mr Justice Poole told Mulhem: "No sentence I impose can possibly compensate Wayne's family for their loss."

Mulhem apologised to the family.

In a statement issued after the sentence, he said: "I would like to give my deepest and heartfelt apologies to the family of Wayne Jowett who have suffered so much because of his death."

Wrong drug

Mulhem had ordered a junior doctor to administer the drug into the spine, even though neither had been formally trained in giving chemotherapy.

"No sentence I impose can possibly compensate Wayne's family for their loss"

Mr Justice Poole

Doctors' reaction to sentence

WATCH AND LISTEN

The BBC's Martin Popplewell
"Wayne's family say today's sentence for manslaughter isn't enough"

[▶ VIDEO](#)

SEE ALSO:

- Doctors shocked by prison sentence
23 Sep 03 | Health
- Family still 'numb' after son's death
23 Sep 03 | Nottinghamshire
- Catalogue of blunders that led to death
19 Apr 01 | Health
- 'Wayne was in a lot of pain'
19 Apr 01 | Health

RELATED INTERNET LINKS:

- [National Patient Safety Agency](#)
- [Queen's Medical Centre](#)
- The BBC is not responsible for the content of external internet sites

TOP HEALTH STORIES

- Hospitals 'eyeing private market'
- Stem cell method put to the test
- Stem cell 'hope' for arthritis

[RSS](#) | News feeds



Police

WHO Surgical Safety Checklist (adapted for England and Wales)

National Patient Safety
National Reporting and Learning

SIGN IN (To be read out loud) Before induction of anaesthesia

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

is

urgical site marked?

not applicable

anaesthesia machine and medication check complete?

ient have a:

v?

spiration risk?

ment/assistance available

loss 0ml/kg in children?

IV access/fluids planned

T DETAILS

atient should be used until it is

Signature of
Registered Practitioner:

TIME OUT (To be read out loud) Before start of surgical intervention for example, skin incision

Have all team members introduced themselves by name and role?

Yes

Surgeon, Anaesthetist and Registered Practitioner
verbally confirm:

What is the patient's name?

What procedure, site and position are planned?

Annotated critical events

egress:

- How much blood loss is anticipated?
- Are there any specific equipment requirements or special investigations?

- Are there any critical or unexpected steps you want the team to know about?

Anaesthetist:

- Are there any patient specific concerns?
- What is the patient's ASA grade?
- What monitoring equipment and other specific levels of support are required, for example blood?

Name/ID/P:

- Has the sterility of the instrumentation been confirmed (including Indicator results)?
- Are there any equipment issues or concerns?

Has the surgical site infection (SSI) bundle been undertaken?

- Yes/not applicable
 - Antibiotic prophylaxis within the last 60 minutes
 - Patient warming
 - Hair removal
 - Glycemic control

Has VTE prophylaxis been undertaken?

- Yes/not applicable

Is essential imaging displayed?

- Yes/not applicable

Name:

Signature of
Registered Practitioner:

SIGN OUT (To be read out loud) Before any member of the team leaves the operating room

Registered Practitioner verbally confirms with the team:

- Has the name of the procedure been recorded?
- Has it been confirmed that instruments, swabs, and sharps counts are complete (or not applicable)?

Have the specimens been labelled (including patient name)?

Have any equipment problems been identified that need to be addressed?

Surgeon, Anaesthetist and Registered Practitioner:

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

Name:

Signature of
Registered Practitioner:

This checklist contains the core content for England and Wales

www.npsa.nhs.uk/nr

2003 Task Force Guidelines

DIFFICULT AIRWAY ALGORITHM

1. Assess the likelihood and clinical risk of basic management problems:

- Difficult intubation
- Difficult airway
- Difficult mask ventilation
- Difficult extubation

2. Actively pursue opportunities to deliver supplemental oxygen throughout the process of difficult airway management

3. Consider the relative merits and feasibility of basic management choices:

- Awake intubation
- Non-invasive technique to initial intubation
- Prevention of spontaneous ventilation

Use primary and alternative strategies:

- A. Awake intubation
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- C. Prevention of spontaneous ventilation

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The problem with checklists

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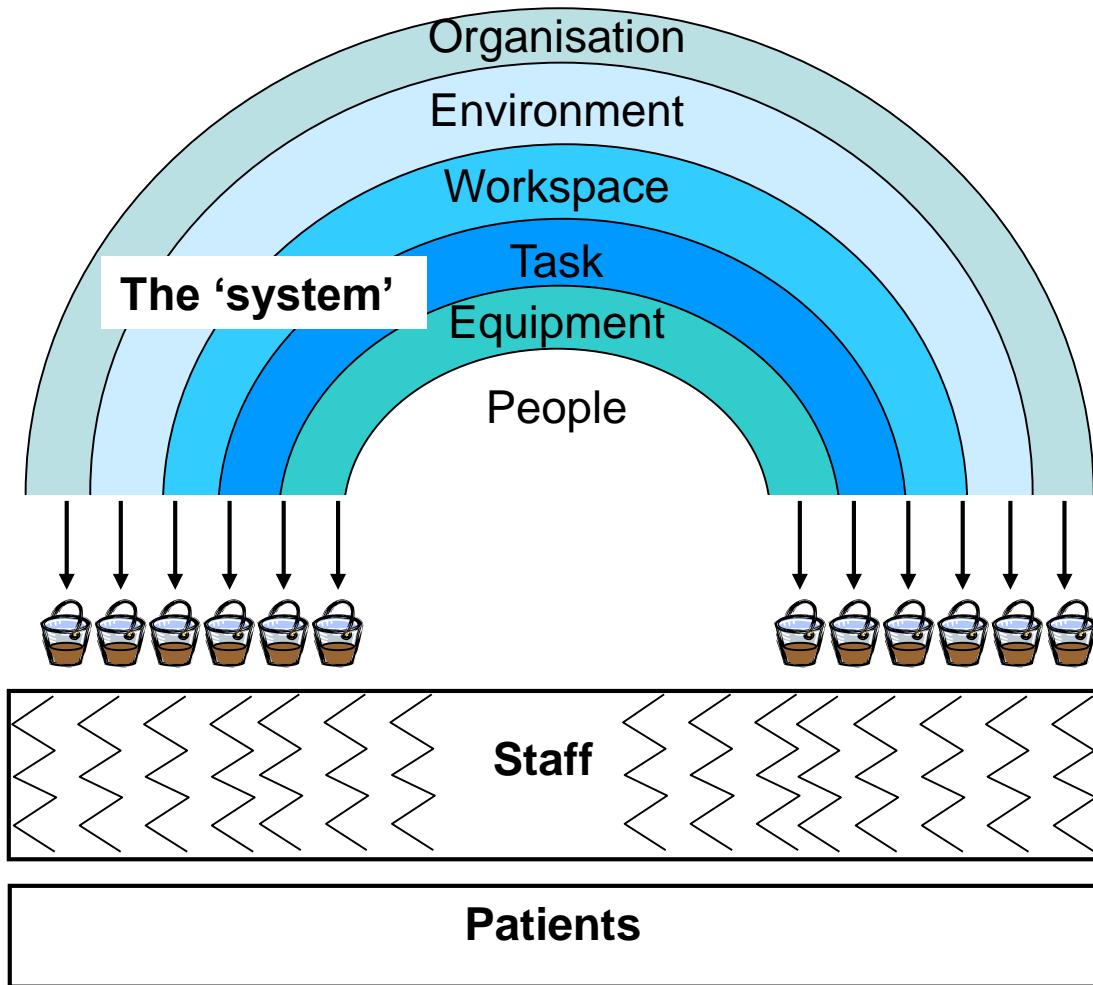
'The Problem with...' series covers controversial topics related to efforts to improve health-care quality, including widely recommended but deceptively difficult strategies for improvement and pervasive problems that seem to resist solution.

Since the seminal studies by Gawande and colleagues¹ and Pronovost *et al*,² checklists have become the go-to solution for a vast range of patient safety and quality issues in healthcare. Some see them as a quick and obvious solution to a relatively straightforward problem. For others, they illustrate a

to mention the critical design changes that were also necessary ('complex'). For example, on the B-17 aircraft, flap and gear levers required redesign as they were easily confused, critically positioned and thus predisposing to accidents.¹⁰

We have often compared healthcare

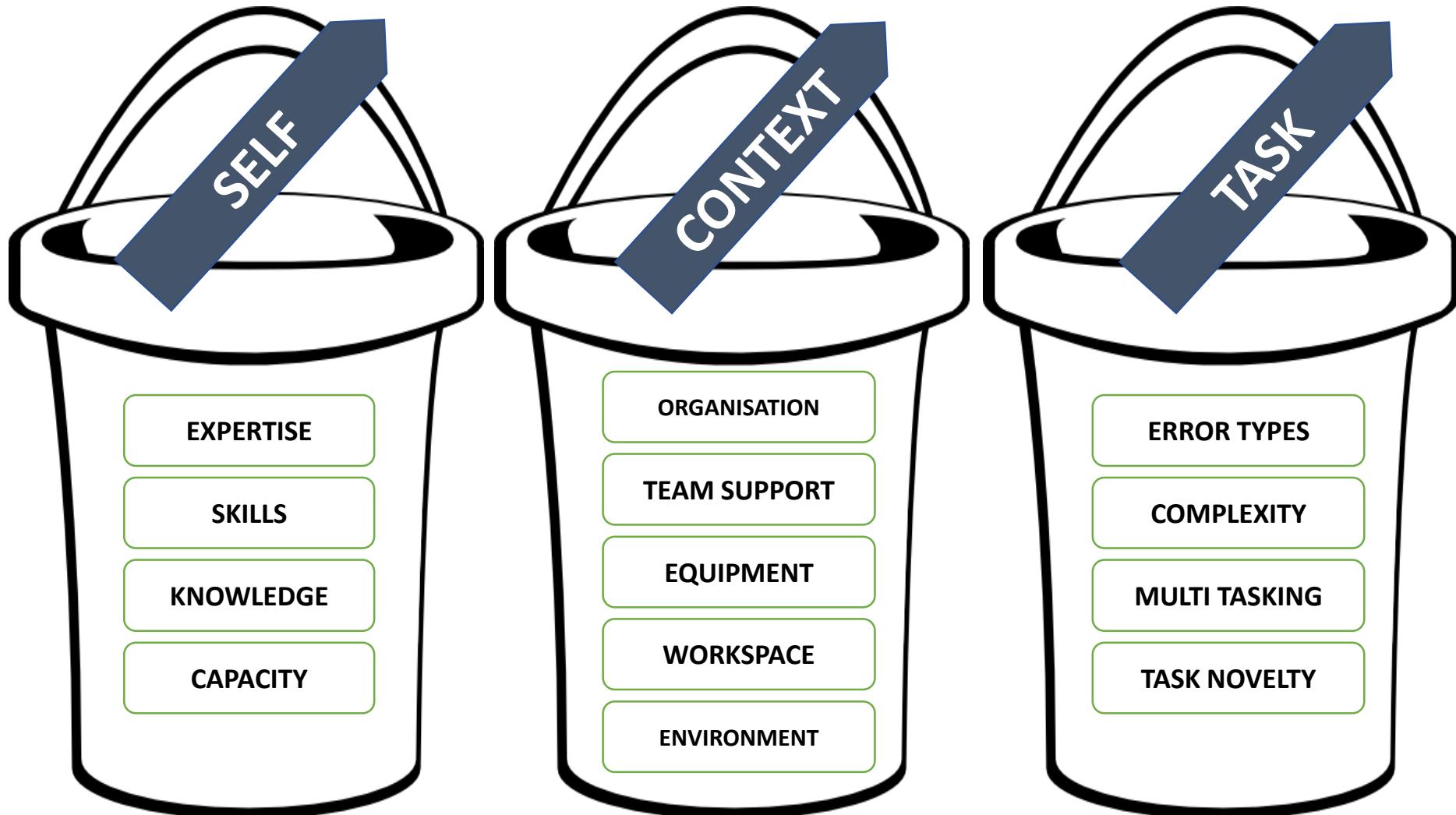
Purpose – Design – Implementation – Integration – Outcomes



Factors within the healthcare system that could potentially lead to harm

Staff act as harm absorbers

HOW FULL ARE YOUR BUCKETS?





Effective
team?

Good risk
management?

Surgeons 'ignored student's warning over fatal error'

By Richard Alleyne

12:00AM BST 13 Jun 2002

Two surgeons whose patient died after they took out the wrong kidney ignored a medical student who pointed out their mistake as they operated, a court heard yesterday.

John _____, 59, the consultant urologist in charge, and Dr _____, 39, who carried out the operation, had not checked their case notes correctly or properly cross-referenced to an X-ray, Cardiff Crown Court was told.

As a result they removed the one healthy kidney of Graham Reeves, 70, a veteran of the Korean war, instead of the diseased organ, leaving the patient without a chance of survival.

Victoria _____, a medical student observing, warned _____ that she thought he was making a mistake during the operation after studying the X-rays in the operating theatre. But her opinion was ignored, the court was told.

Leighton Davies QC, prosecuting the surgeons for manslaughter, said: "She told Mr _____ that she thought it was the right kidney that was not functioning and the left one was compensating for it. Mr _____ told her she had got it wrong."

Mr Reeves's right kidney had been diseased for years, and, after it had been decided to remove it, he was admitted in January 2000 to Prince Philip Hospital in Llanelli, Carmarthenshire.

The surgeons removed his healthy left kidney by mistake after reading an incorrect theatre list.

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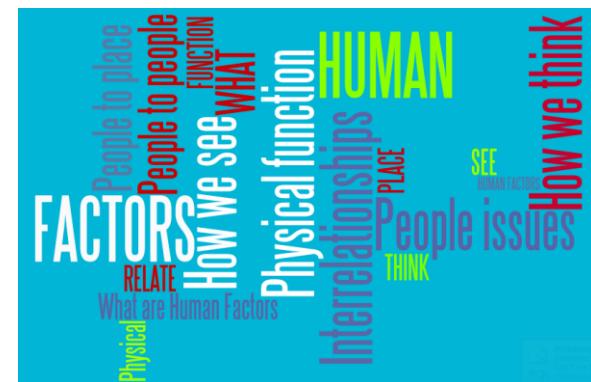
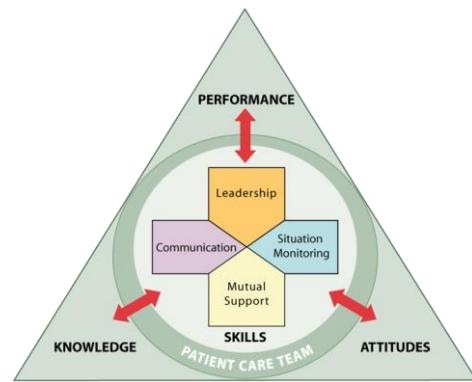
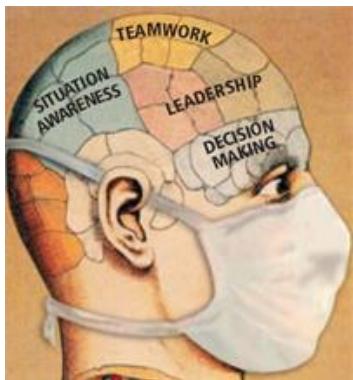
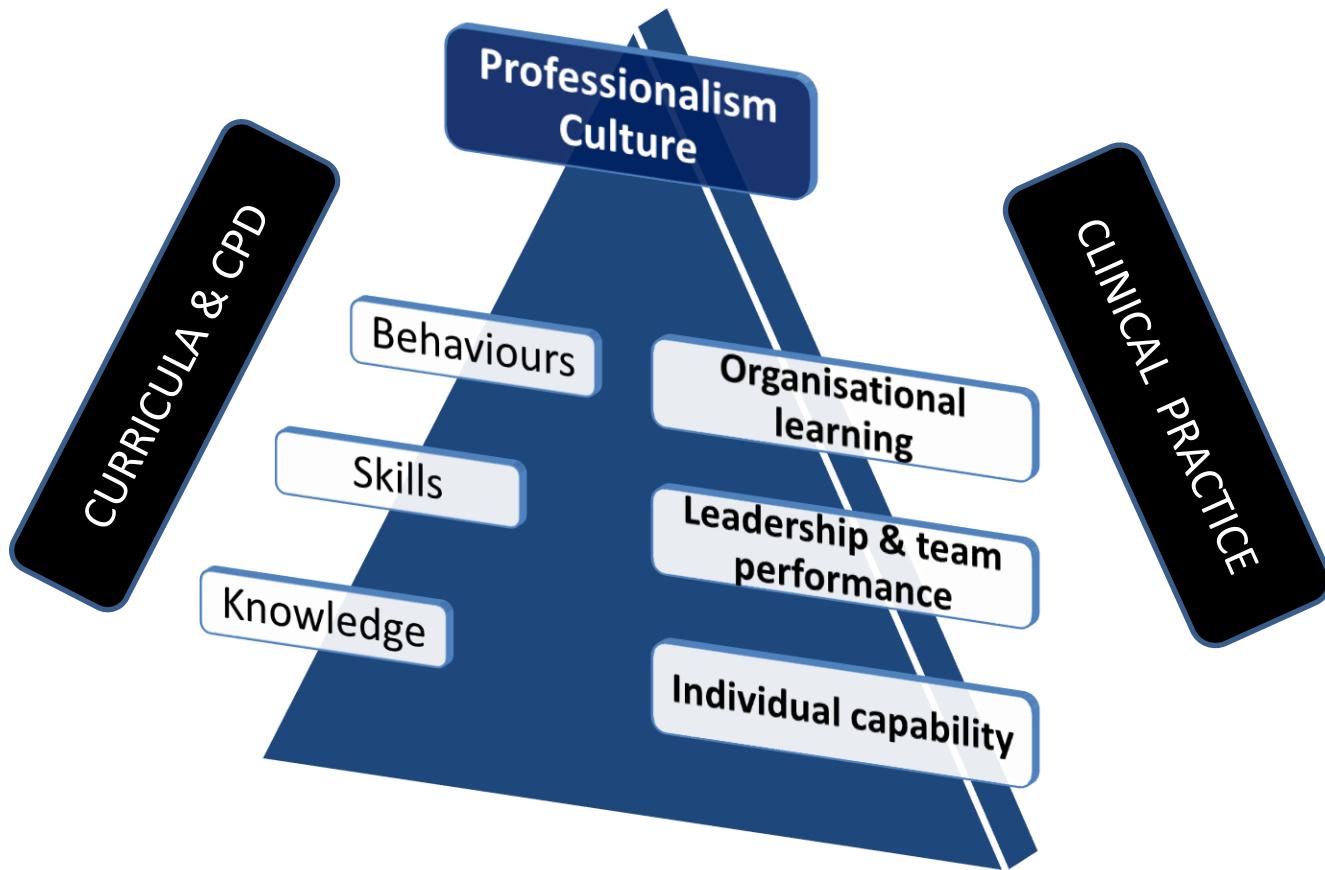


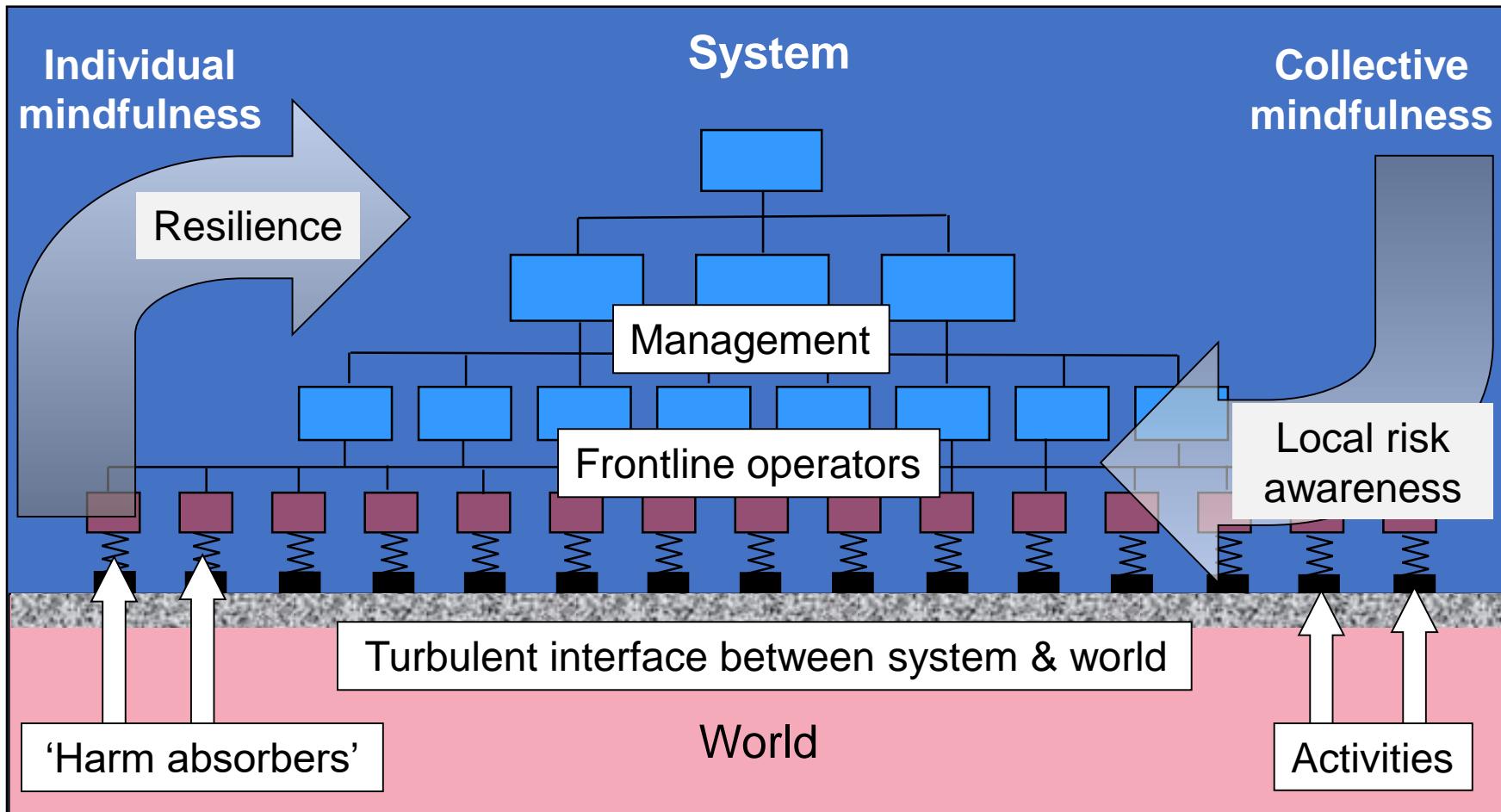
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Individual & Organisational Resilience

Making judgements IN (and ON) the messy world of medicine

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