Unit-based Safety

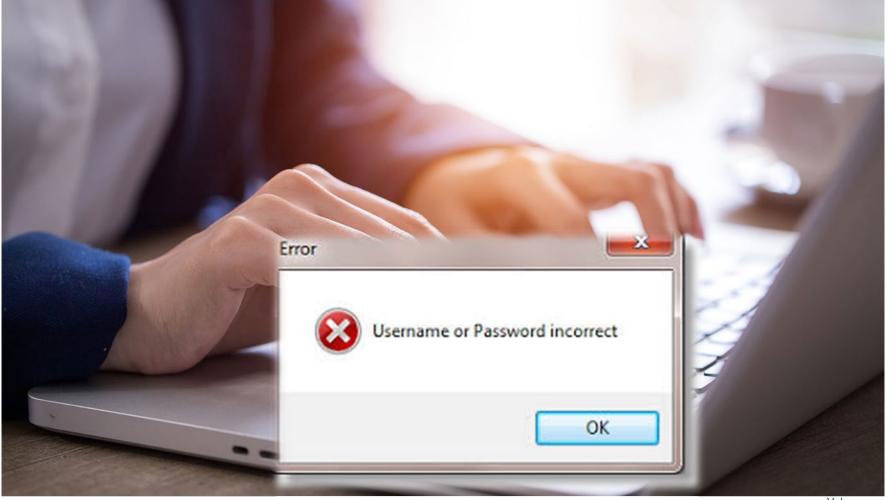


Ensuring High Reliability Best Practices

Stephen G. Jones, MD Associate Professor Yale School of Medicine

> Yale NewHaven <mark>Health</mark>

Username and Password



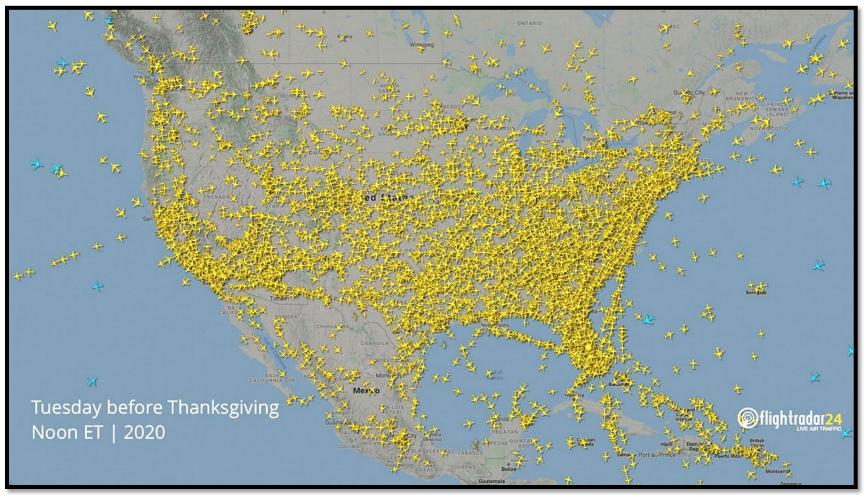
What is an HRO?



High Risk, High Consequence Organizations



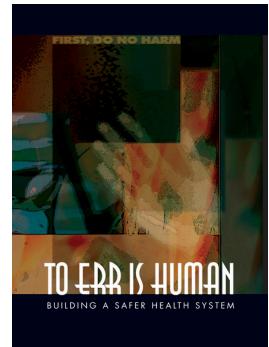
Just Another Safe Day



What About Healthcare?



Harm in US Healthcare



INSTITUTE OF MEDICINE

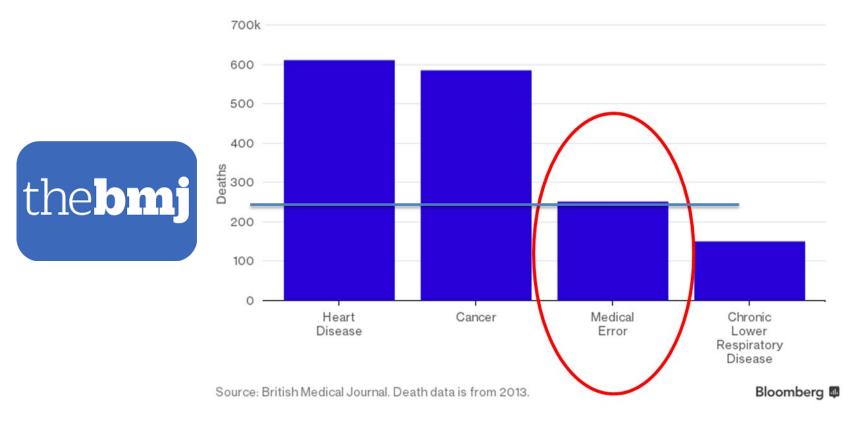
1999 Institute of Medicine report: *"To Err is Human"*

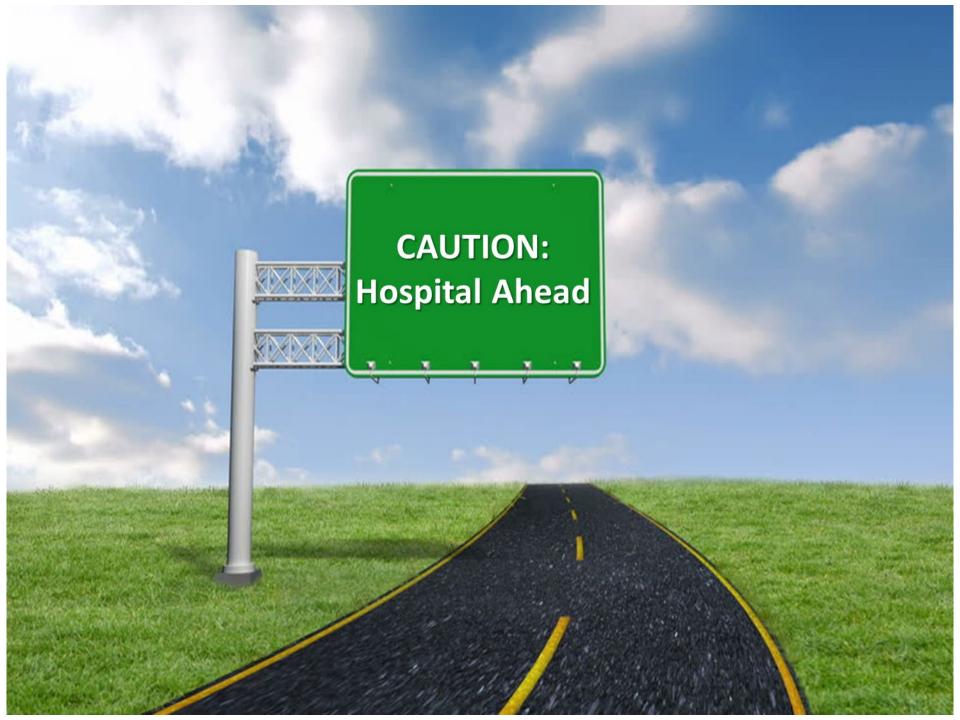
44,000 to 98,000 preventable deaths annually

Are we safer 20+ years later?

Lethal Mistakes

A new estimate of hospital safety lapses in the U.S. is higher than earlier tallies





High Reliability CULTURE

Fair and Just

- Diverse, Inclusive, and Equitable
- Seeks Learning over Blame
- Accountable

Open and Transparent

Safe Event Reporting and Review

Dynamic Learning

- Proactive
- Innovative
- Shared

Resilience

Organizational & Individual

Bringing the Equity Lens to Safety



Inequities Cause Harm



"No such thing as "safe care" when it is inequitable"

Why Things Go Wrong

Systems

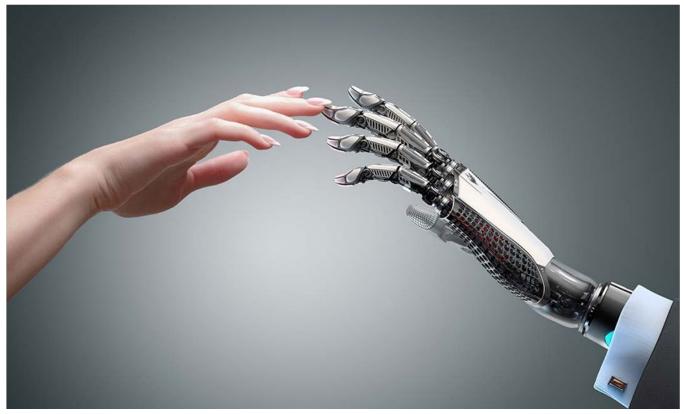












Your Driving System

On Being Human





Human Error

Not a Choice

Free Will

A Choice

Performance Shaping Factors

Personal

- Fatigue
- Stress
- Health
- Competing Goals
- Values

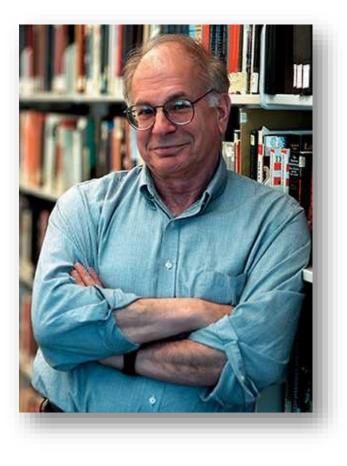
Professional

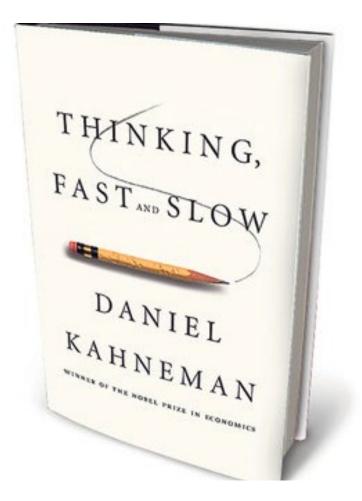
- EPIC
- Environment
- Culture
- Competing Goals
- Values

To Err is Human



Daniel Kahneman





Our two brains

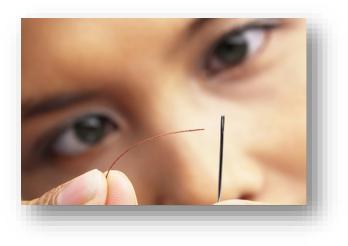
System 1

- Unconscious reasoning
- Automatic / FAST



System 2

- Conscious reasoning
- Effortful / SLOW





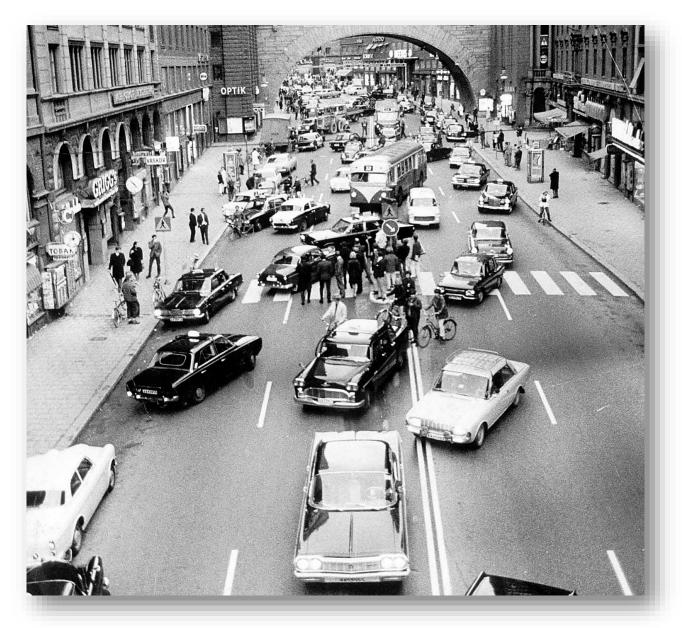
SPOT

The Awareness Test





Dagen H – "H-Day"



Error vs Choice



Review Group One



An experienced surgeon sees a new piece of equipment at a conference.

Back at the hospital, a sales rep. persuades him to use the equipment for a procedure. Having never used the equipment before he accidentally punctures the patient's bowel.

The surgeon repairs the bowel and the patient recovers fully.

The OR has a policy that says new equipment will be officially approved and training conducted prior to its use.

Review Group Two



An experienced surgeon sees a new piece of equipment at a conference.

Back at the hospital, a sales rep. persuades him to use the equipment for a procedure. Having never used the equipment before, he accidentally punctures the patient's bowel.

The surgeon repairs the bowel but the patient later develops a lifethreatening infection as a result of the accidental puncture.

The OR has a policy that says new equipment will be officially approved and training conducted prior to its use.



Should the Surgeon be disciplined?





Discipline Surgeon?

Review Group	Grp 1 (No Harm)	Grp 2 (Harm)
Managers	0%	50%
Physicians	0%	45%
	· · · · ·	

Outcome / severity bias

WHAT IS IT?

When leadership allows the <u>severity</u> of the outcome...

.... to drive its <u>response</u> to an event

Outcome / severity bias

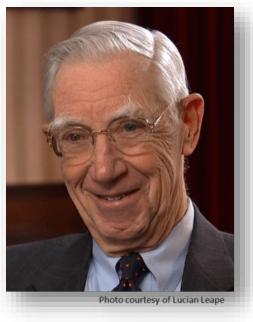
TRAGIC EFFECTS

"No Harm, No Foul"

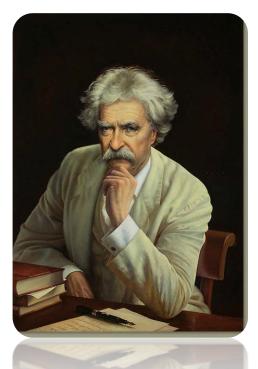
Errors are caused by "normal" rather than "abnormal" behavior.



"The single greatest impediment to error prevention is that we punish people for making mistakes."



"Man was made at the end of the week's work, when God was tired." - Mark Twain



You can **Blame** and **Punish** or

You can Learn and Improve

But you can't do both!

How often do we feel safe doing risky things?



Our Internal "Risk Monitor"





Would you choose to drive around?



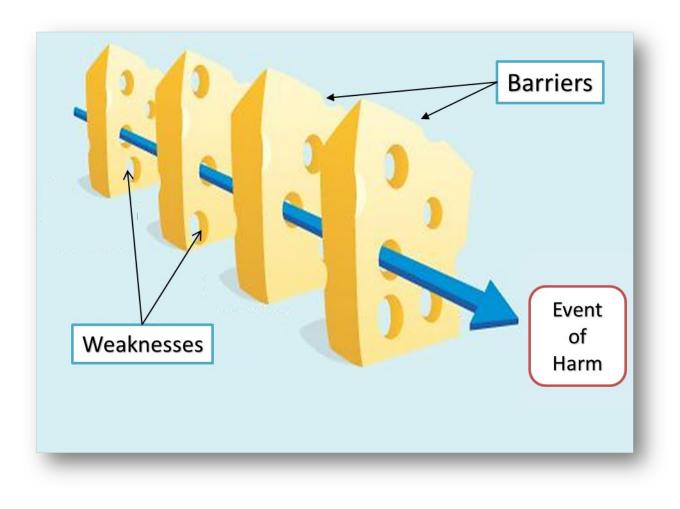


At-Risk Behavior



Another At-Risk Behavior (choice)

The Swiss Cheese Model (James Reason)



Coaching and behavior modification

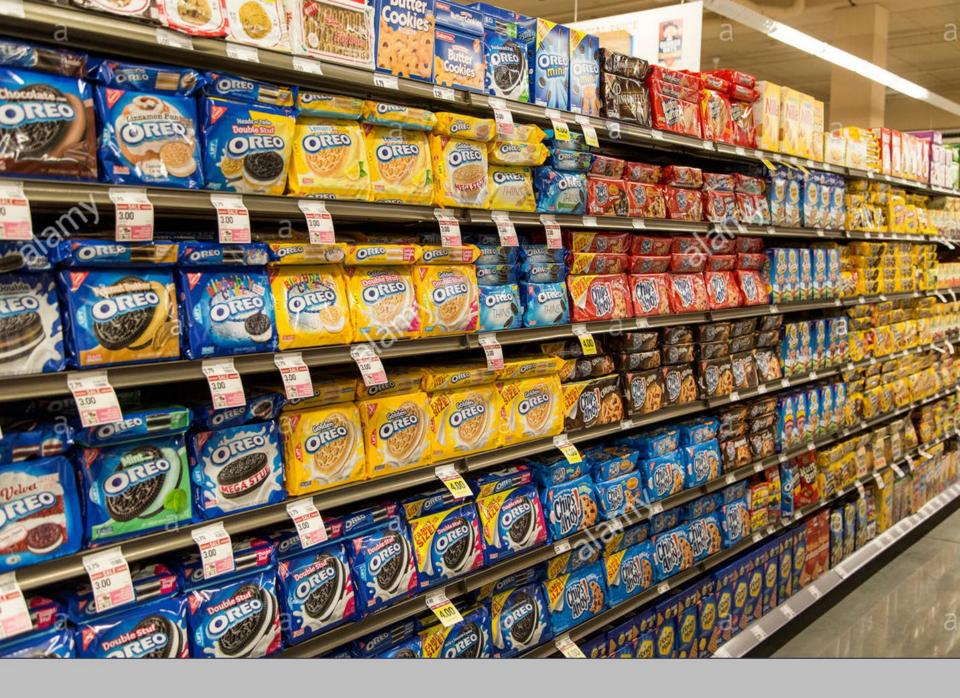




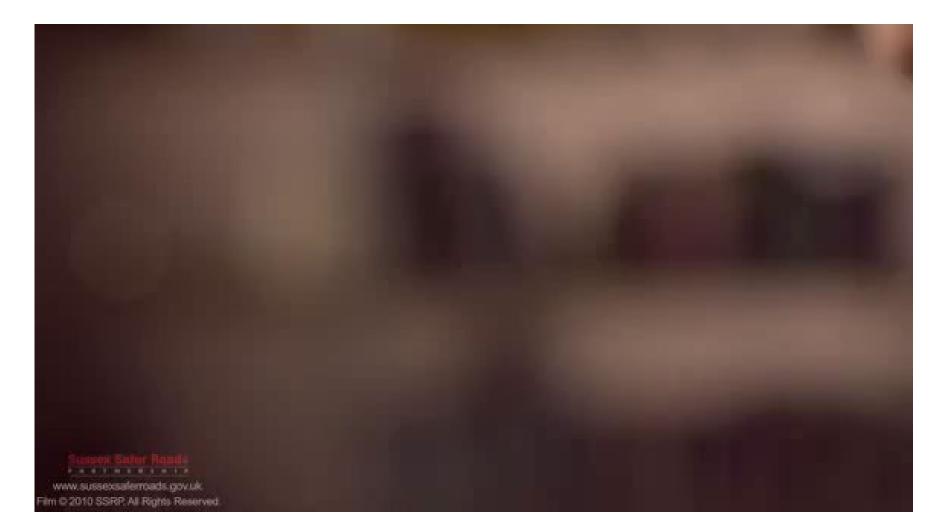
"Let's keep this shot just a little left."

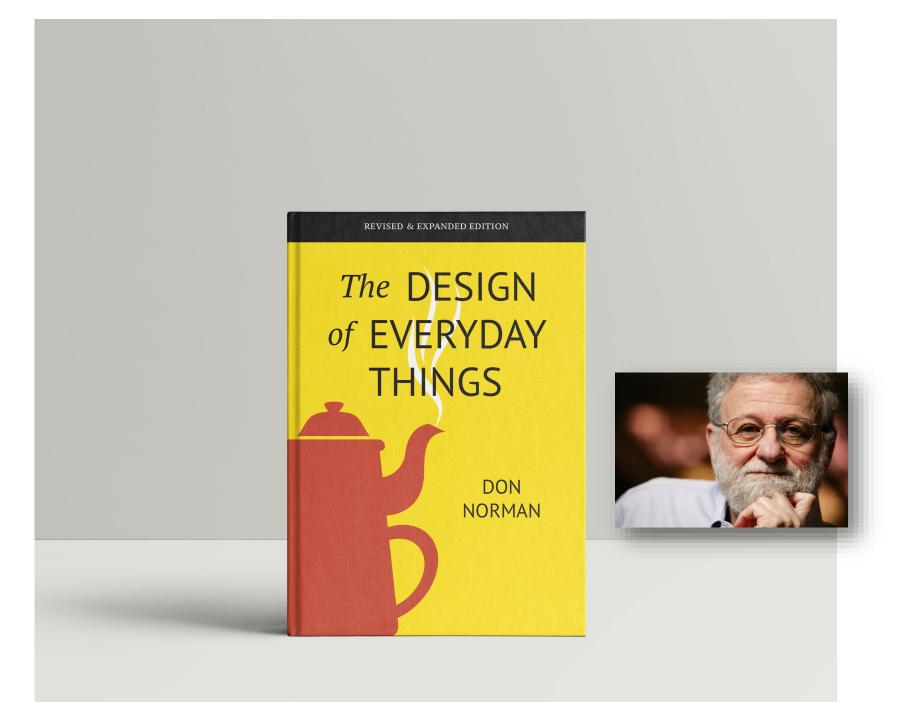






Changing Behaviors



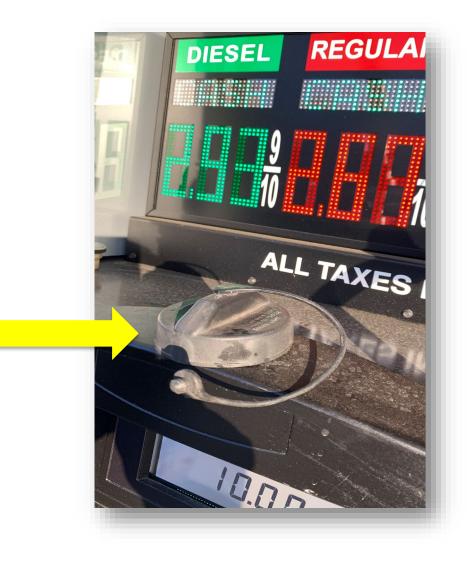


Good System Design Error Proofing





No Perfect Systems



User experience



Resilience







Learning Systems



REACTIVE

- Looks Back
- Local Learning
- Error Focused
- Outcome Bias
- Address the Human

PROACTIVE

- Looks Forward
- Shared Learning
- Risk Focused
- Outcome Blind
- Address the System

Keys to a Successful HRO





Yale Medicine



Thank you!