

Human Factors & Patient Safety

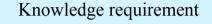
Patient Safety Lecture no. 2







Understand human factors and its relationship to patient safety.



Know the meaning of the term human factors

2

Understand the relationship between human factors and patient safety

Performance requirement

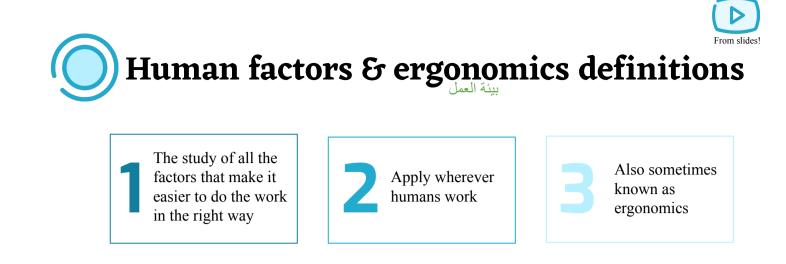
Apply human factors thinking in the work environment How the individual interacts



There was another slides in the blackboard by Dr. Samar, BUT Dr. Nada said "Only study Dr. Jude's slides", so we only added Dr. Jude's slides.

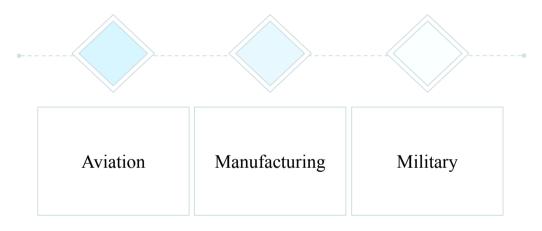
This lecture was presented by Dr. Jude Feda

For the required reading from Blackboard click Here





Importance has been recognized for a long time in:



Importance in health care: Why is it important?

Human factors only recently acknowledged as an essential part of patient safety

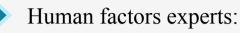
A major contributor to adverse events in health care

All health-care workers need to have a basic understanding of human factors principles



Importance of Human Factors Cont...

Importance in health care:



Design improvements in the workplace and the equipment to fit human capabilities and limitations

1

Make it easier for the workers to get the work done the right way

Decrease the likelihood of errors occurring

Human always makes mistakes

The range of workers

Good human factors design in health care accommodates the entire range of workers

Not just the calm, rested experienced clinician

2

But also the inexperienced health-care workers who might be stressed, fatigued and rushing

Examples

Prescribing and dispensing

Hand-over/hand-off information

Move patients

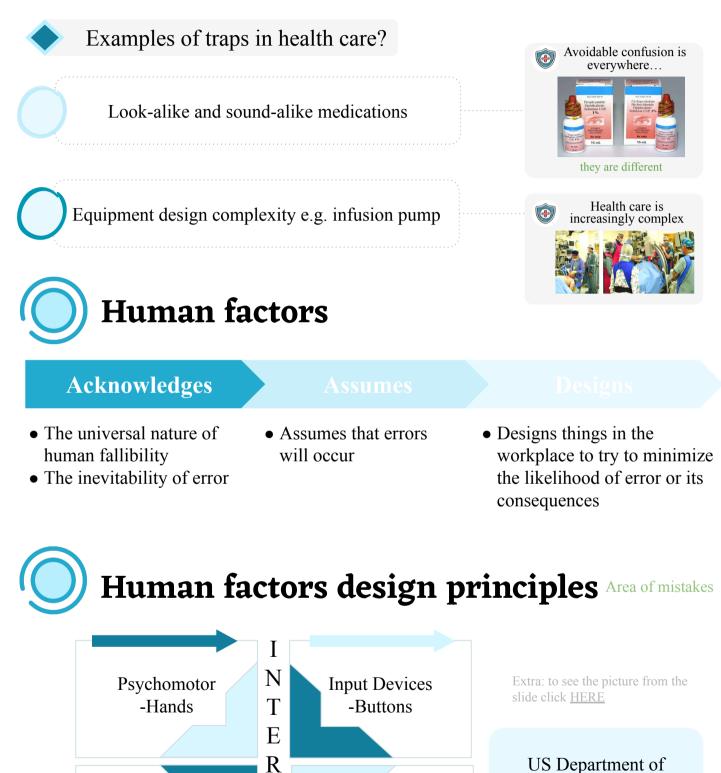
Order medications electronically

Prepare medication

If all of these tasks become easier for the health-care provider, then patient safety can improve

Importance of Human Factors Cont...

Importance in health care:



Output

-Display

-Sound

F

А

С

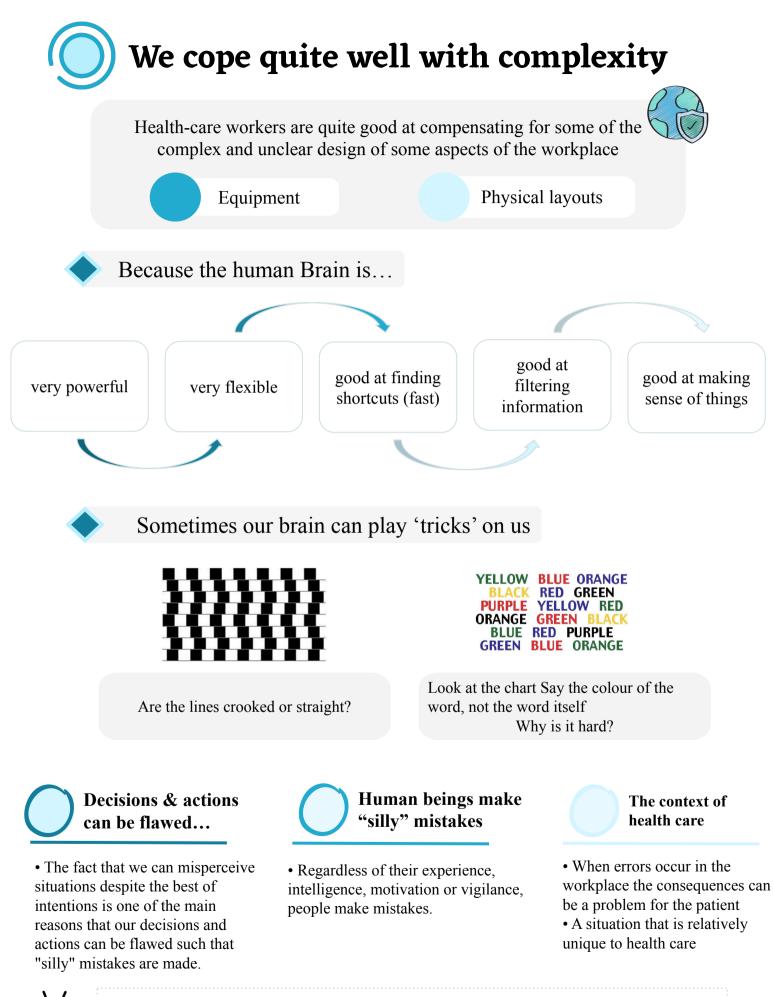
E

Senses

-vision

-Hearing

Veteran affairs



	-
	-
	-
	-
	-
1981	-
	-
16.2	
	-
~~~	-

#### Activity

Think about and then discuss with your colleagues any "silly" mistakes you have made recently when you were not in your place of work or study - and why you think they happened.

## The Error one of our nature



One definition of "human error" is "human nature"

0

Error is the inevitable downside of having a brain!

# What is an error?

The failure of a planned action to achieve its intended outcome

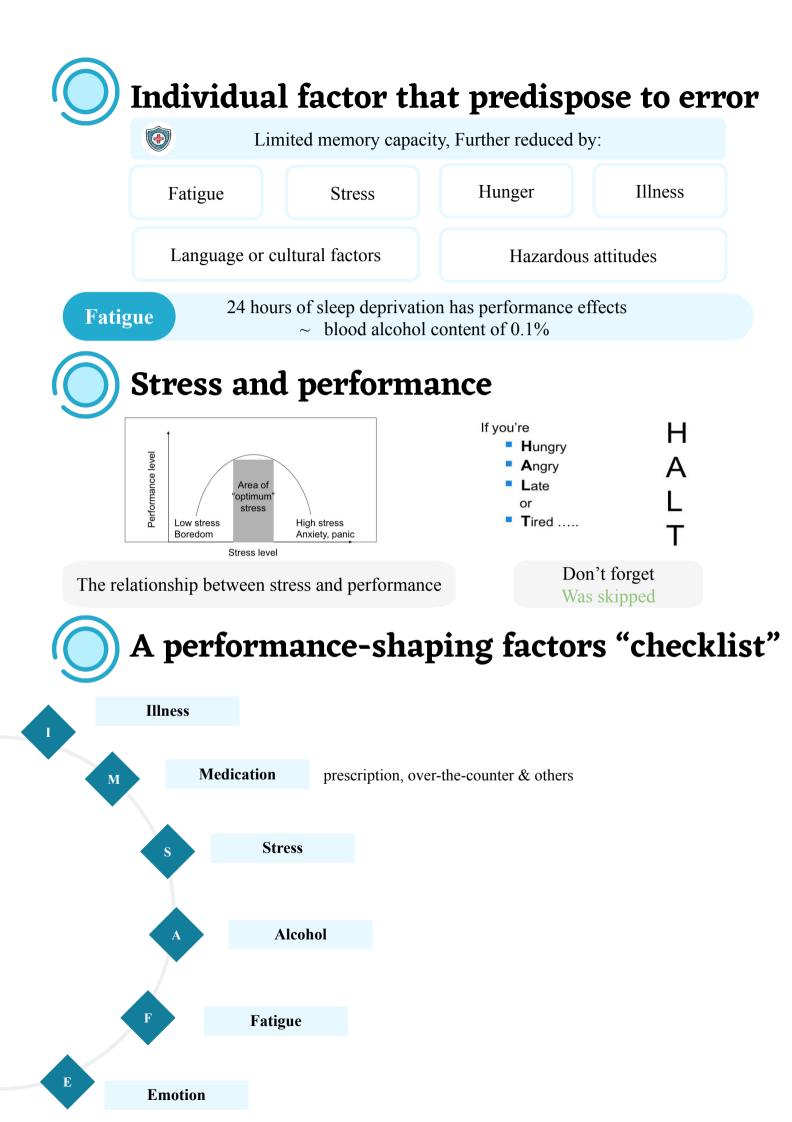
A deviation between what was actually done and what should have been done



James Reason A definition that may be easier to remember is: 'Doing the wrong thing when meaning to do the right thing.'

### Situations associated with an increased risk of error

Especially if combined with lack of supervision - Charles Vincent
Unfamiliarity with the task
Inexperience
Shortage of time
Inadequate checking
Poor procedures
Poor human equipment interface



## Putting knowledge of human factors into practice

Apply human factors thinking to your work environment

Avoid reliance on memory

Review and simplify processes

Standardize common processes and procedures

Routinely use checklists

Decrease reliance on vigilance





Errors are inevitable - even for experienced health professionals!



There are situations that can increase the likelihood of error Recognize them for your patient's sake - and yours!



Attention to human factors principles can lead to a reduction in error or its consequences



Human factors engineering is about designing the workplace and the equipment in it to accommodate for limitations of human performance.



# Team Leaders

Aroub Almahmoud

Remaz Almahmoud

Lama Almutairi

# Team Members

Farah Abukhalaf

Aljoharah Alkhalifah

뿜 Aleen Alkulyah

🟆 Aryam Almsari

Mohammed Alqutub

Aishah Boureggah

Sultan Albaqami

Lama Alrushid

Haya Alzeer

Nazmi M Alqutub

Nazmi A Alqutub

Areej Alquraini

Moath Alhudaif

Rahaf Alshowihi

Sarah Alshahrani

Raghad Alqhatani

Lama Alotaibi

Sarah Alajaji

Faris Alzahrani



Patientsafety.team443@gmail.com