

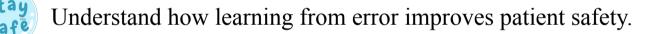
## Learning From Errors To Prevent Harm

Patient Safety Lecture no. 5





- stay safe stay safe
- Understand the nature of error.
- Explain the terms: error, violation, near miss, hindsight bias.
  - Learn from errors through:
- Analyzing adverse events.
- Practicing strategies to reduce errors.



This lecture was presented by Prof. Ahmed Aboshaiqah

For the required reading from Blackboard click Here

# What do we mean by "error"? = Mistakes



#### Definition

Non-deliberate deviation from what was intended: When someone is trying to do the right thing, but actually **does the wrong thing.** Wrong diagnosis, procedure or prescription

#### **Fancy Definition**

A planned sequence of mental or physical activities that fails to achieve its intended outcome, when this failure cannot be attributed to a systematic failure.





Still, bad outcomes usually draw attention to errors. Knowing an error has occurred negatively affects our perception of the standard of care before and during the incident in question.

Hindsight bias: the nature of the outcome influences perception of the error.

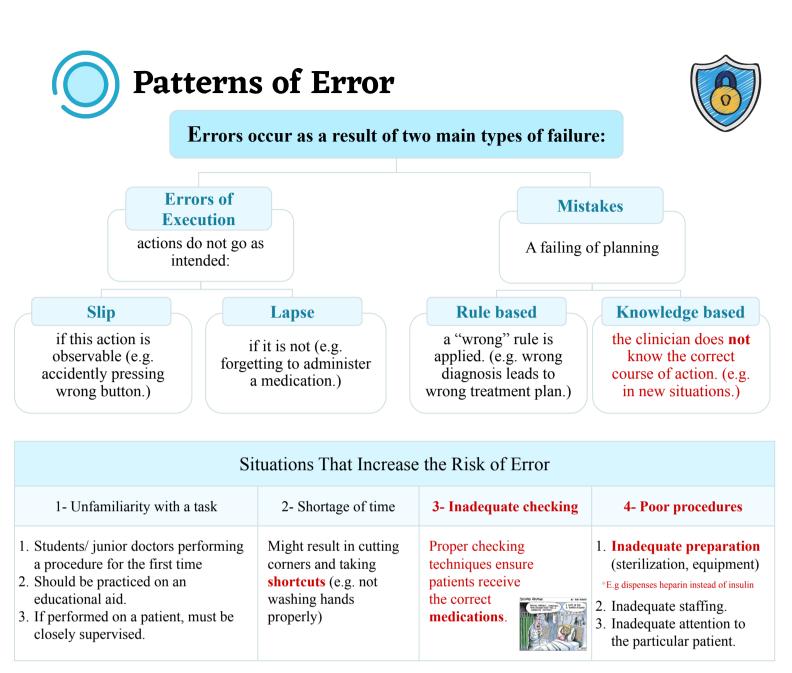
### Silly mistakes?

We often commit "silly mistakes" in our daily lives (forget our keys, text the wrong person.)

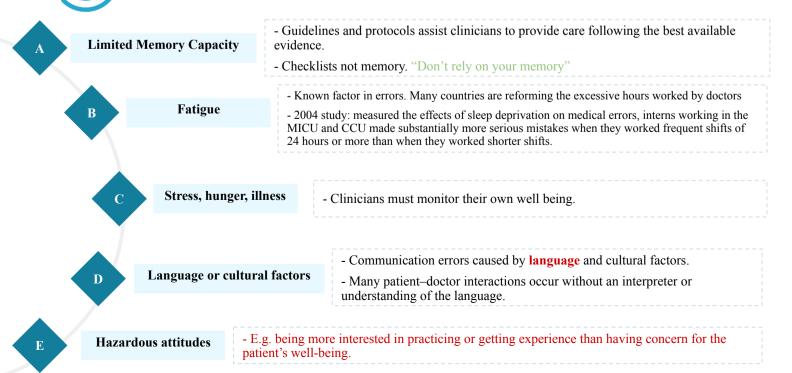
These same mental processes that lead to silly mistakes are in play in the health care setting.

The consequences, however, are very different: it is the patient who suffers.

Culture of infallibility: medical culture often denies the prevalence of error.



#### Individual Factors That Predispose to Error







Incident reporting	Root cause analysis
• Collecting and analyzing information about any event that harmed or could have harmed a patient.	• A highly structured system approach to incident analysis that is generally reserved for the most serious patient harm episodes.
• An incident-reporting <i>system</i> allows the health organization to identify and eliminate "error traps".	• Goal is to evaluate, analyze and develop <i>system</i> improvements for the most serious adverse events.
• Organizations with a strong reporting culture learn from errors because staff report problems without fear of ridicule or reprimand.	• Triages the reported incidents to ensure those indicating the most serious risk to the organization are dealt with first.
<ul> <li>Successful reporting strategies:</li> <li>1. Anonymous reporting.</li> <li>2. Timely feedback.</li> <li>3. Open acknowledgement of successes resulting from reporting.</li> </ul>	• Prevention- not blame or punishment.
	• Systems level vulnerabilities, not individual performance.
	• Multiple factors: <b>communication</b> , training, fatigue, scheduling, rostering, environment, equipment, rules, policies and barriers.

### **Root Cause Analysis**

Defining characteristics:

Review by an interprofessional team knowledgeable about the processes involved in the event.

3

Deep analysis using "what" and "why" probes until all aspects of the process are reviewed and contributing factors are considered.

2

Analysis of **systems** and **processes rather than individual performance**.



Identification of potential improvements that could be made in systems or processes to improve performance and reduce the likelihood of such adverse events or close calls in the future

## O Practice Strategies to Reduce Errors

From dr, Q: What is the definition of Health?

A: by WHO: Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.

Know yourself (eat well, sleep well and look after yourself).

Know your environment and Know your task(s). Learn to say NO

Preparation and planning (What if...).

Build checks into the routine and Ask if you do not know

Assume that errors will be made. Be prepared for them.

Identify those circumstances that most likely lead to errors. .

Have contingencies in place to cope with problems, interruptions and distractions.

Always mentally rehearse complex procedures or if it is the first time you are doing an activity involving a patient.

 Weight Standardize common processes and procedures.
 Routinely use checklists.
 Decrease the reliance on vigilance.



A 21-year-old male was being treated for non- Hodgkin's lymphoma. A syringe containing vincristine for another patient had been accidentally delivered to the patient's bedside. A physician administered vincristine via a spinal route, believing it was a different medication. The error was not recognized and the patient died three days later. Its huge mistake



A 78 year old woman who is blind and deaf without speech is admitted to the hospital clutching her abdomen and moaning. She had been like that for a couple of hours and had also vomited a few times. On examination she had some epigastric tenderness, her heart and lungs were normal, and her blood pressure was slightly low. Routine blood investigations were normal. She is given anti-spasmodic drugs but a few hours later she is still in severe pain. An ultrasound scan ruled out problems with the patient's gallbladder. An endoscopy on the following day produced negative results. On the fifth day, the patient died: the causes undiagnosed, her suffering unrelieved. As the resident prepares to write a case summary, he discovers the patient's ECG- performed on the date of admission but never checked by the team-showing textbook signs of an extensive acute myocardial infarction. Horrified, the resident shows the tracing to the consultant who says "making a fuss about this won't bring her back." Should address the error



### Team Leaders

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