Patient Safety: A Competitive Weapon in Hospital Management

Dr. S. Sridharan

Deputy Director General Planning

Ministry of Health

Sri Lanka





Research +

Education -

News & Views ~

Campaigns

Archive

Analysis

Medical error—the third leading cause of death in the US

BMJ 2016; 353 doi: http://dx.doi.org/10.1136/bmj.i2139 (Published 03 May 2016)

Cite this as: BMJ 2016;353:i2139



News / India / Tamil Nadu: Two die in Ambur due to absence of doctors in hospita

Tamil Nadu: Two die in Ambur due to absence of doctors in hospital

Two patients died before a doctor could attend them. Outraged by the loss of their loved ones, the family members of the deceased blocked the hospital, causing panic among other patients.





INDIA WORLD

Tamil News » Medical Negligence

Medical Negligence



பிறந்த குழந்தையுடன் TikTok வீடியோவில் நடனமாடிய செவிலியர்கள்...

ஒடிசா மருத்துவமனை மகப்பேரு வார்டில் TikTok

Bangalore

Delhi: Do

cal negligencase

weather Pollution er's death

Woman

ln 2011, th

compensate

Municip Pres

Montage

Woman Gets ₹ 15 Lakh Payout In "Medical Negligence"

Case

In 2011, the woman moved the Maharashtra State Consumer Disputes Redressal Commission seeking compensation on account of "medical negligence" in treatment of her husband.

Mumbel | Prese Trust of India | Updated: August 02, 2019 13:07 IST

Medical negligence in Bihar: Left nand fractured, plaster cast on right



THE TIMES OF INDIA



DARBHANGA: A case of medical negligence from Darbhanga Medical College Hospital has come into light after an orthopaedic doctor plastered the wrong hand of the boy who fell from a mango

on right iwari after examining the child, go soon after. Family members stationally warring gave a wrong medicine to help Responde To land gave 2000 and 1000 and 2000 and 200

Service | • New Delhi | 8, 2018 4:39:04 am



How India's Shadow Banking Crisis Sent Auto Sector Into Tailspin



But it comes to patient safety, the numbers are startling



The risk of a hospital-associated infection is significant

In the USA, if you are admitted to a hospital, you have a 5% chance of contracting an HAI





2 million

People per year get an HAI during a hospital stay

Of these > 99,000

People die annually from HAIs



30% Of Intensive care Unit patients develop HAI

US\$ 28 – 33 billion per year in healthcare costs

Not just a problem for Hospitals



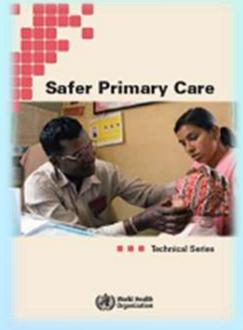
• Half the global burden of patient harm originates in primary and ambulatory care, with as many as four out of 10 patients facing safety lapses (Slawomirski L et al 2018)

• It is estimated that up to 80% of harm in primary care settings can be avoided. (Slawomirski L et al 2018)

• Poor-quality care imposes costs of US\$ 1.4 trillion to 1.6 trillion each year in lost productivity in low- and middle-income countries (National Academies of Sciences, Engineering, and Medicine, 2018) At the political level, the cost of safety failure includes loss of trust in health systems, in governments and in social institutions.

(Slawomirski L et al 2017)

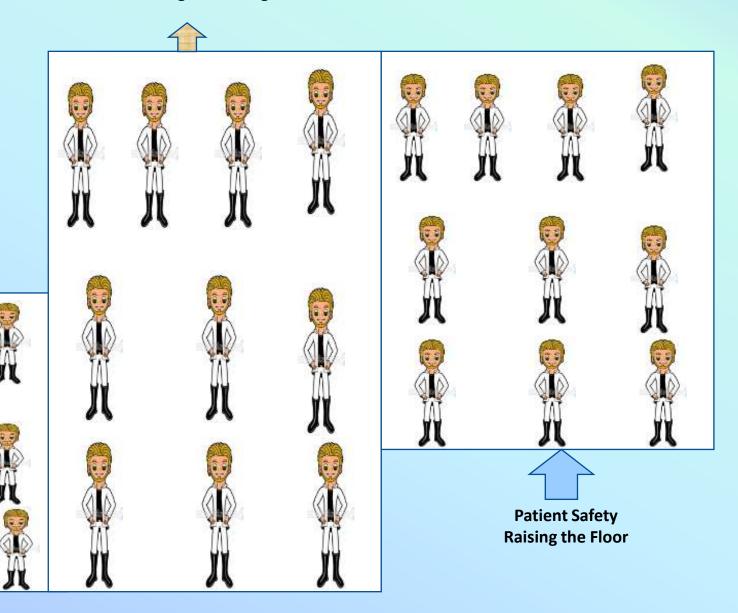


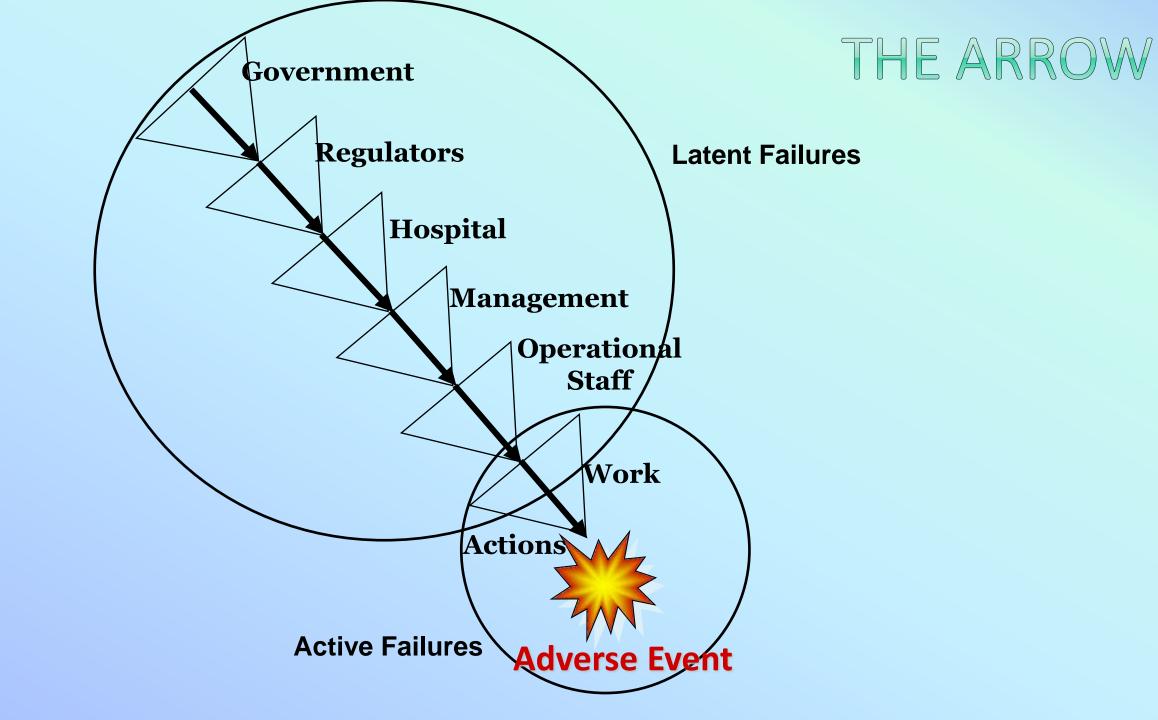


Patient Safety Definition

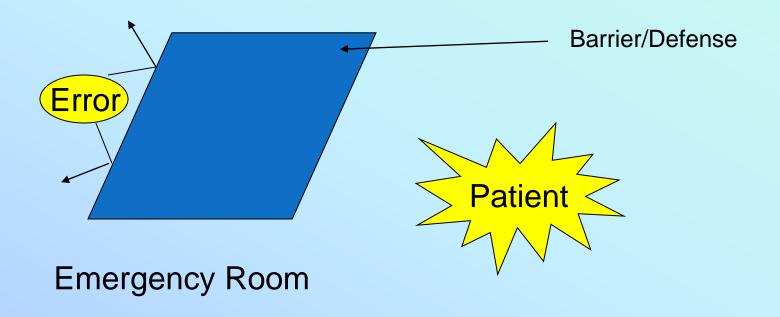
 The avoidance, prevention, and amelioration of adverse outcomes or injuries stemming from the processes of healthcare. These events include 'errors', deviations', and 'accidents.'

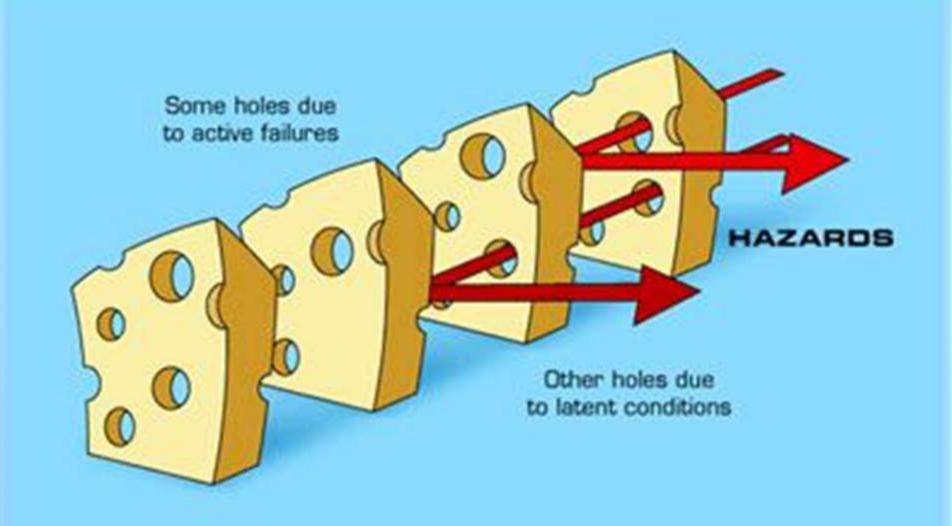
Quality Improvement Raising the Ceiling





Patient Safety Systems





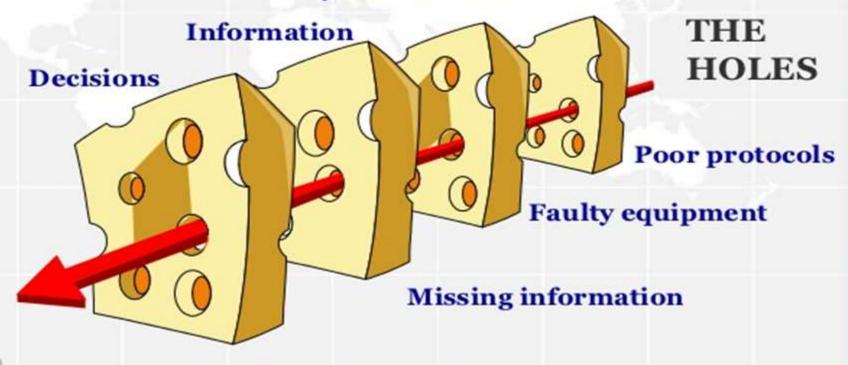
SUCCESSIVE LAYERS OF DEFENSES

THE SWISS CHEESE MODEL

DEFENCES¹⁶

Procedures

Physical barriers



Patient harmed

Inadequate supervision

Adapted from Professor James Reason

Types of Errors

System Errors (Latent)

- Heavy workload/Fatigue
- Incomplete or unwritten policies
- Inadequate training or supervision
- Inadequate maintenance of equipment/buildings
- Communication

Human Mistakes (Active)

- Action slips or failures (e.g. picking up the wrong syringe)
- Cognitive failures (e.g. memory lapses, mistakes through misreading a situation)
- Violations (i.e. deviation from standard procedures; e.g workarounds)

Types of Medical Errors

Medication errors: Errors can occur at any point in the medication use chain ordering stage, transcribing stage, dispensing stage or administration stage. A study in US showed that of these errors ordering stage (56%) and administration stage (34%) constitutes the most.

Surgical errors: Patient safety issues in surgery include those common to other fields (e.g.,) medication errors, nosocomial infections, communication mishaps), but also several specific to surgery (e.g., wrong-site surgery, retained sponges and instruments).

Diagnostic errors: Despite advances in laboratory testing, clinical imaging, and information technology, diagnostic errors remain commonplace. Clinicians' diagnostic and therapeutic actions are influenced by both patient-related and clinician-related (e.g., past experience) factors.

Human factors and errors at the person-machine interface: Human Factors Engineering (HFE) is the applied science of systems design. It is concerned with the interplay of humans, machines and their work environment. Thoughtful applications of HFE principles can help prevent errors are the person-machine interface.

Transition and Handoff Errors: Errors at the time of transitions (also known as handoff errors) are among the most common errors in healthcare. Handoffs can be site-to-site (eg., transferring a patient from primary care hospital to a secondary care hospital or vice versa) or person-to-person (eg. One Nursing Officer signing out to another when changing over the shifts). Therefore it is vital to hand over the patients either to a site or to a person with all possible information.

Teamwork work and communication errors: The provision if high quality, safe healthcare is increasingly a team sport. Well functioning teams are characterized by appropriate authority gradients and hierarchies that don't stifle the free flow of information. As long as effective teamwork and communication strategies are employed, the patient safety will not be compromised. High functioning teams use strategies such as effective introductions, debriefings and sharing their knowledge and experiences on patient care.

Hospital Acquired Infections — Recently infection control activities have been characterized by many as a subset of patient safety, implying that many healthcare associated infections are caused by medical errors (failure to adhere to evidence-based prevention strategies). The new field of patient safety can learn much from the older fields of hospital epidemiology and infection control — particularly, the use of standardized definitions, the importance of data collection and analysis, and the key role of professionals to monitor safety problems and implement safe practices.

Other complications of healthcare - There are several other complications of healthcare under the patient safety umbrella. These include pressure ulcers, patient falls and Venous Thromboembolism (VTE).

Culture – The Content for Team Success

Culture is the compass, team members use to guide their behaviors, attitudes, & perceptions on the job.



- What will I get praised for?
- What will I get reprimanded for?
- What is the "right" thing to do?

Culture is Complex

Resources allocation practices

Error detection & Correction Systems

Feedback, reward & Corrections Systems Safety Culture Communication

Patterns &

Languages

Teamwork Processes

leadership

Informed Culture

Those who manage and operate the systems have current knowledge about the factors that determine the safety of the system

Learning Culture

Willingness and know-how to draw the right conclusion from a safety information system and to implement reforms

Reporting Culture

Prepared to report their errors and near misses

Safety Culture

Just Culture

Encouraged and even rewarded for providing safety-related information, but must be clear about what is acceptable and unacceptable behavior

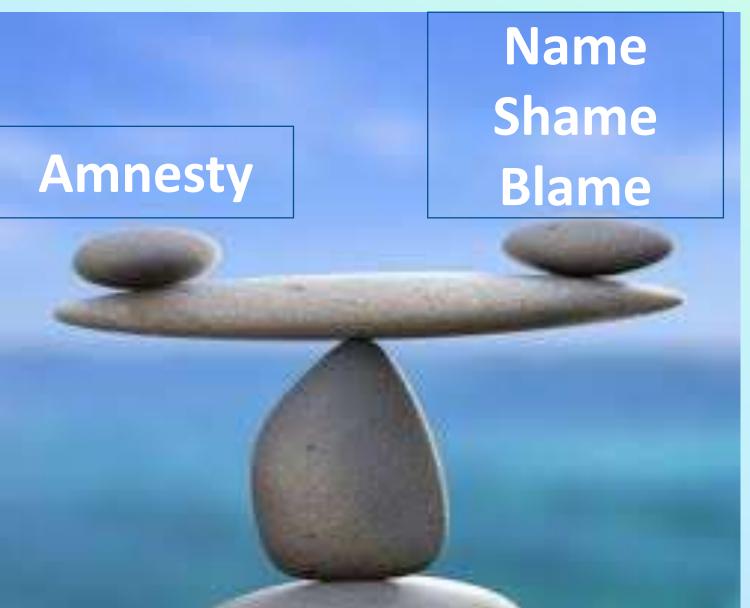
Open Culture

Staff feel comfortable discussing patient safety incidents and raising safety issues with both colleagues and senior managers

Just Culture – Where is the Balance?

Blame - Free

It's the system's fault. We cannot hold the provider accountable



Punitive

It's the provider's fault

Types of behaviors and responses

Behaviour

Intent

Manage by.....

Human Error

Product of our current system design

Manage through changes in:

- Processes
- Procedures
- Training
- Design
- Environment

At Risk Behavior

Unintentional risk - taking

Manage through:

- Removing incentives for at-risk behaviors
- Creating incentives for healthy behavior
- Increasing situational awareness

Reckless Behavior

Intentional risk taking

Manage through:

- Remedial Action
- Disciplinary action

Overall response

Console

Coach

Discipline

Intentions matter and should drive our responses

Marx, 2007

THE EVOLUTION OF SAFETY CULTURE

Generative

Safety is how we do business round here – safety is inherent part of the business

Proactive

Workforce involvement starts. We work on the problems that we still find

Calculative

Safety is driven by Mx systems with collection & analysis of data. Primarily driven by top Mx. rather than looked by the workforce

Reactive

Org. Start to take safety seriously but there is only action after incidents

Pathological

Who cares as long as we are not caught

Leadership in Patient Safety Willing to meet **Desired Roles** monthly **Participates in** (Minimum) Member of the executive rounds patient safety & **Quality Team Reviews** safety Supports data summaries **Adaptive Efforts Ensures** team has resources to reduce risks Supports **Collaborates with** technical efforts team on solutions

More Effective Communications



Handoffs

On Average, last 35 seconds





- Over 1/5 include omissions or inaccurate information
- Most do not include questions from handoff recipients

Trust

TaskAppropriateness
Assertiveness

Team Empowerment

Mutual Support

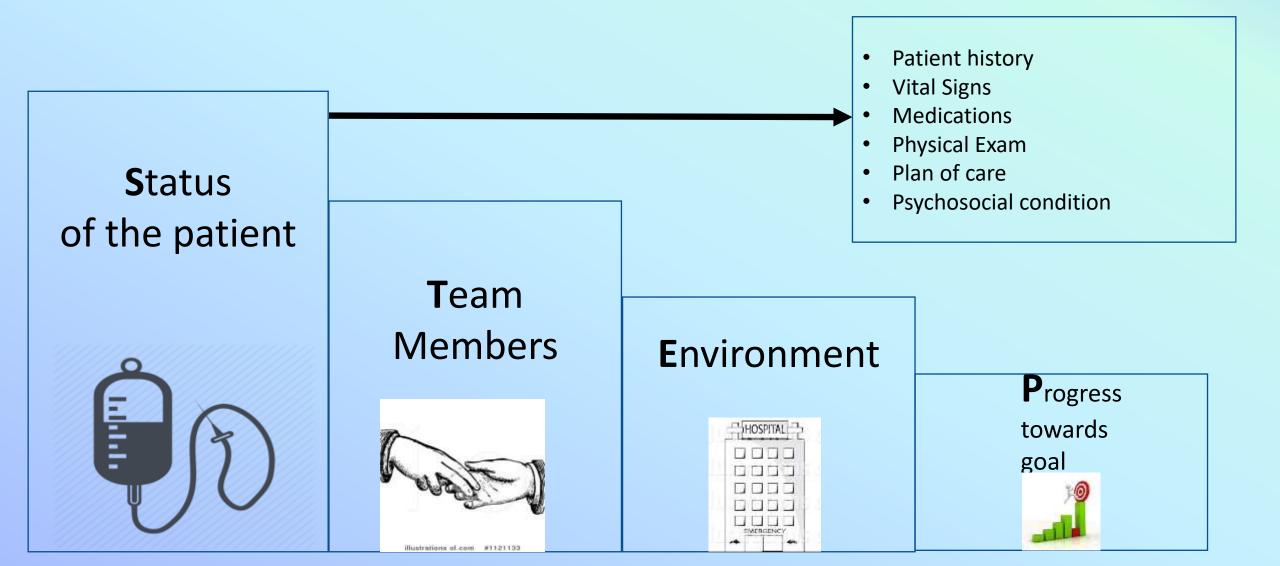


Effective conflict Management



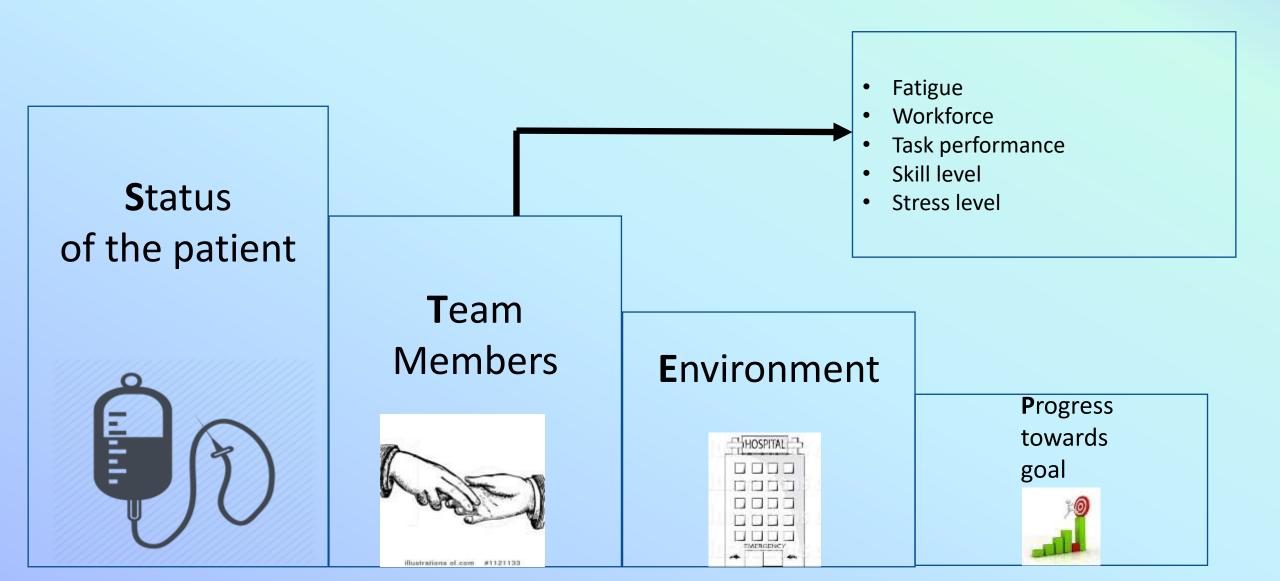
Situation Awareness

STEP Approach



Situation Awareness

STEP Approach



Individual factors that predispose to error

- Limited memory capacity
- Further reduced by:
 - fatigue
 - stress
 - hunger
 - illness
 - language or cultural factors
 - hazardous attitudes

Don't forget

```
If you're
```

- H ungry
- A ngry
- L ate

or

• **T** ired

Н

A

L

T

A performance-shaping factors "checklist"

- I Illness
- M Medication
 - prescription, alcohol and others
- S Stress
- A Alcohol
- F Fatigue
- E Emotion

Am I safe to work today?

Situation Awareness

STEP Approach

Status of the patient

Team Members



Facility Information

- Administrative Information
- Human Resources
- Triage acuity
- Equipment

Environment



Progress towards goal



Situation Awareness

STEP Approach

Status of the patient



Team Members



Environment



Status of team's patient(s)?

- Goal of Team?
- Actions completed?
- Actions that are needed?
- Plan still appropriate?

Progress towards goal



How to use event reporting data











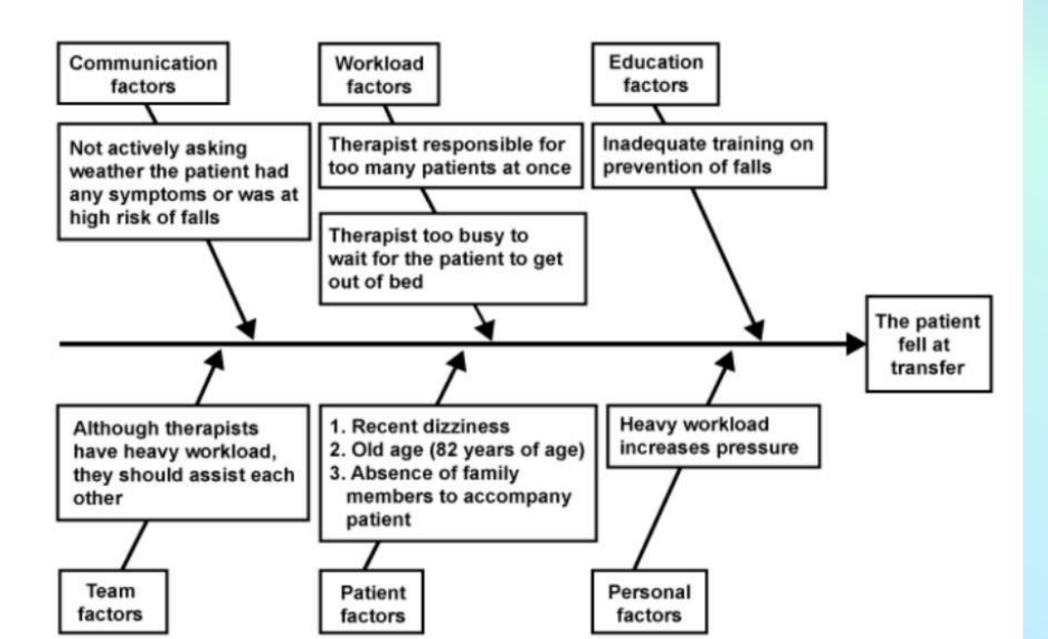






Trends after change

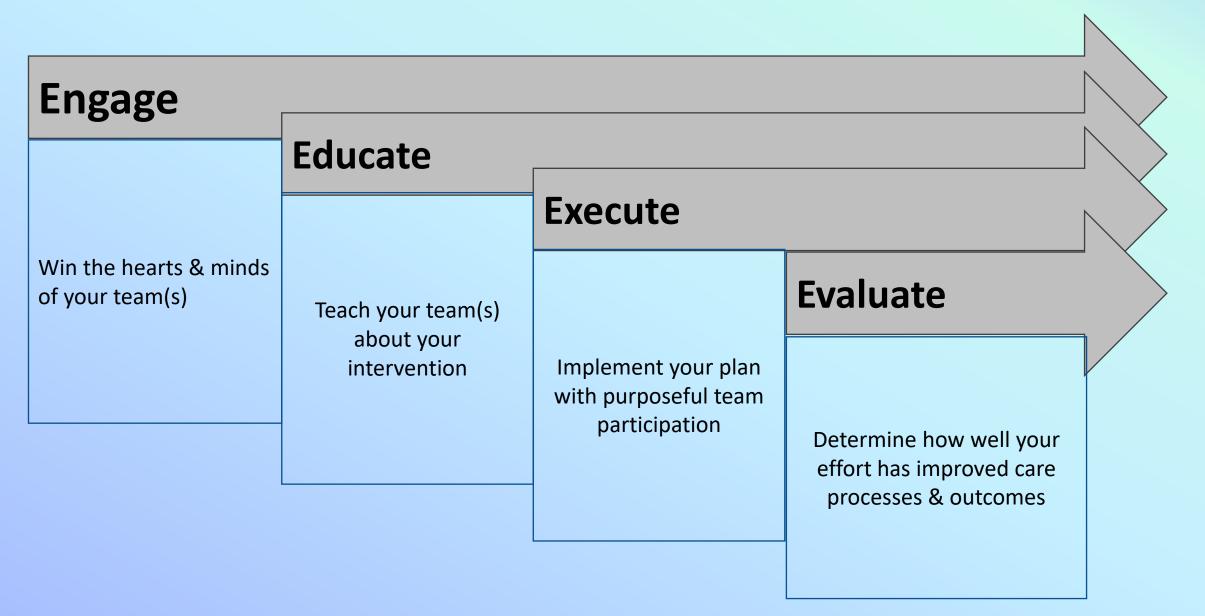
Root Cause Fishbone Diagram: Patient Fall



Control Plan

Y	X	Specification	Monitoring	Reaction Plan
Decrease Falls		Decrease falls by 50%		
	Lack of protocol	100% protocol roll out in all units	Monthly	Process will reinforce Protocol roll out in all units if < 100% for 2 consecutive months
	Lack of training	90% of units trained in new protocols	Monthly	HEO will ensure all staff educated
	Lack of routine assessment	100% compliance with routine assessment	Weekly	

Implementation – 4 E's



'Mantra' of Quality Improvement

Don't Give up!!!
the beginning is
the always hardest

