



### Department of Medicine Med 442 Course Virtual Lectures



## Patient Safety & Quality Improvement: Principles, Tips and Tools

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October 29, 2020 atarakji@ksu.edu.sa

#### **Intended Learning Outcomes:**

At the end of this lecture student will be able to:

- 1) List the six domains of quality patient care
- 2) Define the six domains of Safety Competencies Framework
- 3) Recognize the complexity of the Contemporary Healthcare System
- 4) Discuss the seven elements of the Culture of Safety
- 5) Define the five principles of quality improvement project

## What is Quality? What is Patient Safety?



### وردت عبارة (أحسن عملاً) في القرآن الكريم أربع مرات:

﴿ وَهُوَ الَّذِي خَلَق السَّمَاوَاتِ وَالأَرْضَ فِي سِتَّةِ أَيَّامٍ وَكَانَ عَرْشُهُ عَلَى الْمَاء لِيَبْلُوَكُمْ أَيُّكُمْ أَحْسَنُ عَمَلاً ﴾ [هود: 7]

﴿إِنَّا جَعَلْنَا مَا عَلَى الْأَرْضِ زِينَةً لَّهَا لِنَبْلُوَهُمْ أَيُّهُمْ أَحْسَنُ عَمَلًا ﴿ [الكهف: 7]

﴿إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا ﴾ [الكهف:30]

﴿ الَّذِي خَلَقَ الْمَوْتَ وَالْحَيَاةَ لِيَبْلُوَكُمْ أَيُّكُمْ أَحْسَنُ عَمَلًا ﴾ [الملك:2]

October 29, 2020 A R TARAKJI, MD, FRCPC

### **COVID-19....**

✓ What have you learned from it?



#### **COVID-19....**

- **✓** Commitment
  - **✓** Opportunities
    - ✓ Values
      - ✓ Interdependence
        - **✓** Determination

#### **COVID-19....**

✓ What do we have this lecture today?

#### Mrs Nourah...

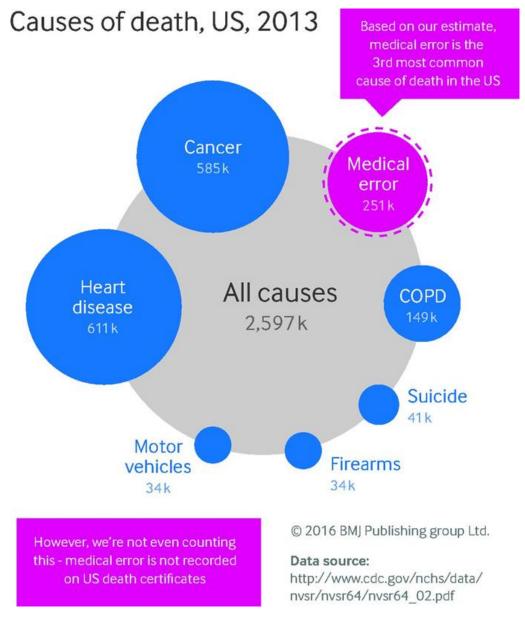
- ✓ A 59 y/o F presented to ER with dizziness and nosebleed x 1 day
- ✓ Discharged 2 days ago after tx for ADHF
- ✓ PMHx: A Fib, ICMP, DM, DLP, HTN, CKD
- ✓ Meds: Bisoprolol, Lisinopril, Furosemide, Simvastatin, Warfarin
- ✓ VS: 94/62-118-98% RA
- ✓ No JVD, no crackles, no leg edema
- **✓** What is your DDX?





### **5 Moments** for Medication Safety





thebmj



#### Institute of Medicine (IOM)

Washington, DC

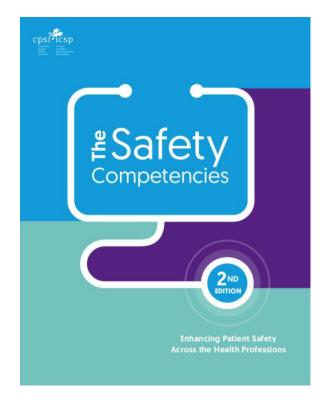
#### 1999: To Err Is Human: Building a Safer Health System

- > an alarming report, tremendous public attention to the crisis of patient safety
- >~ 98,000 patients die every year from preventable medical errors in hospitals

2001: <u>Crossing the Quality Chasm: A New Health System for the 21st Century</u>







https://www.patientsafetyinstitute.ca/en/toolsresources/safetycompetencies/pages/default.aspx

#### **Students Poll Questions**

1	My training is preparing me to understand the causes of medical errors				
2	My training is preparing me to prevent medical errors				
3	I would feel comfortable reporting any errors I had made, no matter how serious the outcome had been for the patient				
4	The number of hours doctors work increases the likelihood of making medical errors				
5	Most medical errors result from careless doctors				
6	Medical errors are a sign of incompetence				
7	Doctors have a responsibility to disclose errors to patients only if they result in patient harm				
8	Teaching teamwork skills will reduce medical errors				
9	Encouraging patients to be more involved in their care can help to reduce the risk of medical errors occurring				
10	Teaching students about patient safety should be an important priority in medical students training				

Carruthers, S. et al. (2009). Attitudes to patient safety amongst medical students and tutors: Developing a reliable and valid measure, Medical Teacher, 31:8, e370-e376.

# Speak up for patient safety!

No one should be harmed in health care





#### Speaking up for patient safety (3:30)

https://youtu.be/DCtGtpkdC1U









سلامة الممارس الصحاي هاي أولوية لسلامة المرضا*ب* 

Healthcare Worker Safety: A Priority for Patient Safety

https://www.spsc.gov.sa/English/News/Pages/news60.aspx

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Topic 2: Why applying human factors is important for patient safety



Topic 3: Understanding systems and the effect of complexity on patient care

Topic 4: Being an effective team player

Topic 5: Learning from errors to prevent harm

Topic 6: Understanding and managing clinical risk

Topic 7: Using quality-improvement methods to improve care

Topic 8: Engaging with patients and carers

Topic 9: Infection prevention and control

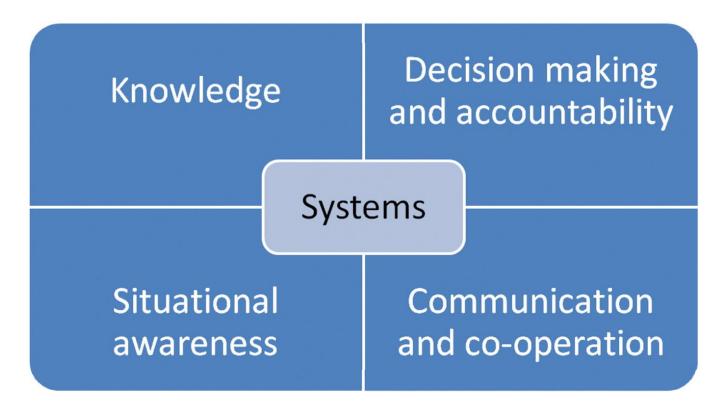
Topic 10: Patient safety and invasive procedures

Topic 11: Improving medication safety

#### Patient Safety Curriculum Guide Multi-professional Edition



### Building blocks for patient safety in the Leeds undergraduate medical curriculum



Armitage, G., Cracknell, A., Forrest, K. & Sandars, J. (2011). **Twelve tips for implementing a patient safety curriculum in an undergraduate programme in medicine**, Medical Teacher, 33:7, 535-540.

#### **Principles:**

**Principle # 1: Core Concepts** 

**Principle # 2: Understanding Systems** 

**Principle # 3: Opportunities to Improve Quality of Care** 

**Principle # 4: Designing Improvement** 

**Principle # 5: Developing Interventions** 

#### Tips:

- Tip # 1: The Six Domains of Health Care Quality
- Tip # 2: The Challenges of Changing Systems, Culture, and Behavior
- Tip # 3: Process Mapping
- Tip # 4: Follow the Order
- **Tip # 5: Patient Care Outcomes**
- Tip # 6: Failure Mode Effect Analysis (Potential Errors)

#### Tips:

- Tip # 7: Root Cause Analysis (After an Error)
- **Tip # 8: Assessment Metrics**
- Tip # 9: Driver Diagrams
- Tip # 10: SMART Aim Statement for QI Intervention
- Tip # 11: Bedside Checklist
- Tip # 12: Plan-Do-Study-Act (PDSA) Cycles

#### **Principle # 1: Core Concepts**

Tip # 1: The Six Domains of Health Care Quality

## Institute of Medicine (IOM)

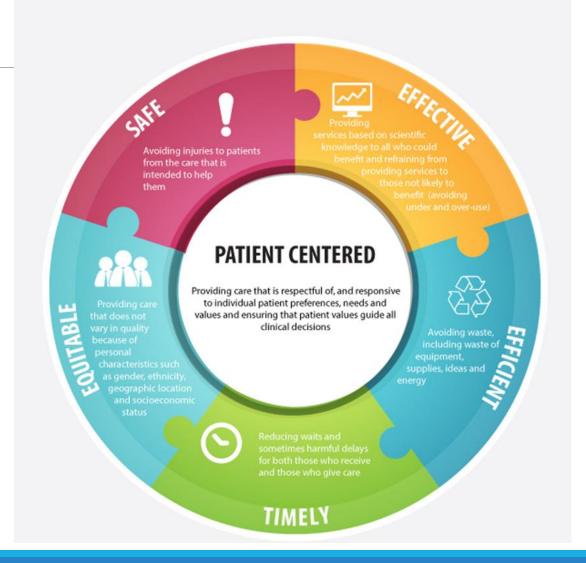
Washington, DC

2001: <u>Crossing the Quality Chasm: A New</u> Health System for the 21st Century

http://iv.hannibalhealth.org/tag/steeep/

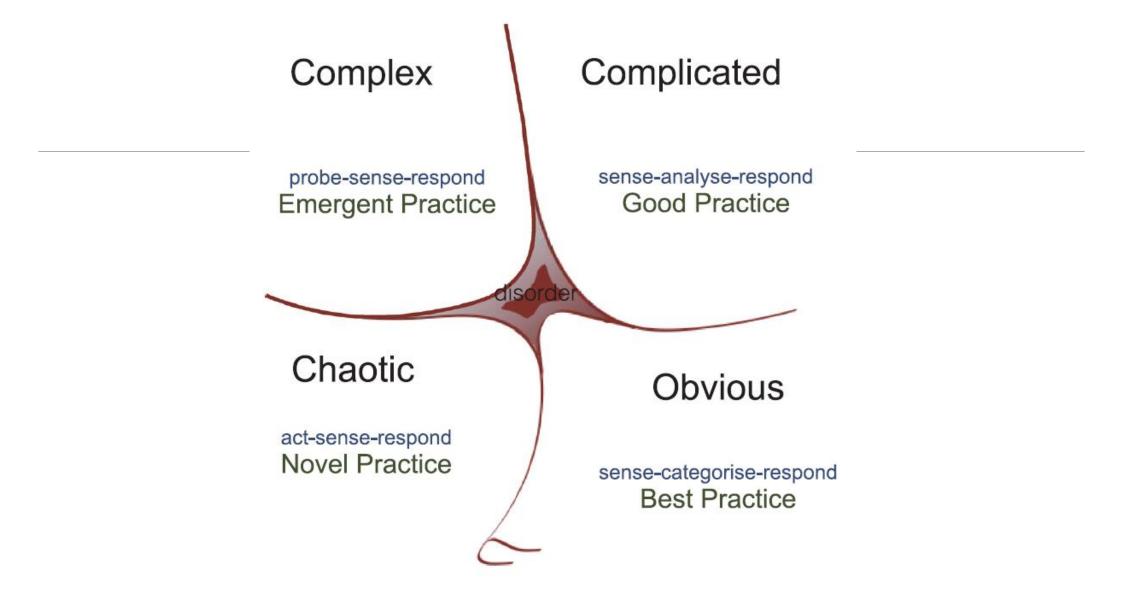
### **Quality Model**

Hannibal Regional Healthcare System

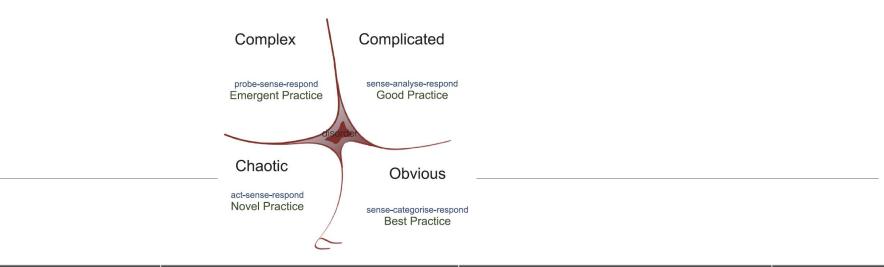


#### **Principle # 1: Core Concepts**

### Tip # 2: The Challenges of Changing Systems, Culture, and Behavior



Gray Ben (2017). The Cynefin framework: applying an understanding of complexity to medicine. Journal of Primary Health Care 9, 258-261.



Type of problem	Predictability	Cause and effect?	Type of practice	Strategy
Obvious	Stable and predictable by all	Clear cause and effect	One right answer  Best Practice  Protocols essential	Sense Categorise Respond
Complicated	Stable and predictable by experts	Cause and effect discernible with analysis	Several right answers  Good Practice  Protocols helpful	Sense Analyse Respond
Complex	In flux and unpredictable	Cause and effect may be there but only understood in retrospect	No right answers  Emergent practice  Protocol unlikely to work	Probe Sense Respond
Chaotic	Turbulent	Situation too turbulent and changing to consider cause and effect	No time to search for answer  Act to gain control  Protocol no help	Act Sense Respond

Gray Ben (2017). The Cynefin framework: applying an understanding of complexity to medicine. Journal of Primary Health Care 9, 258-261.

## What is a Culture? And How to Change it?



Mossop, et al. (2013). Analysing the hidden curriculum: use of a cultural web. Medical education, 47(2), 134–143.

#### **Elements of a Culture of Safety**

- 1) Acknowledge the high-risk nature of the activity
- 2) Establish safety as a key goal in policies and procedures
- 3) Evaluate errors as "system failures," not as an individual's failures
- 4) Commit needed resources, including time and technology
- 5) Recognize that a "safe" environment is not error free
- 6) Report "near misses" and events in blame- and retaliation-free environment
- 7) Develop processes for peer review and analysis of root cause

Garrick, R., Kliger, A. & Stefanchik, B. Patient and Facility Safety in Hemodialysis: Opportunities and Strategies to Develop a Culture of Safety. CJASN Apr 2012, 7 (4) 680-688.

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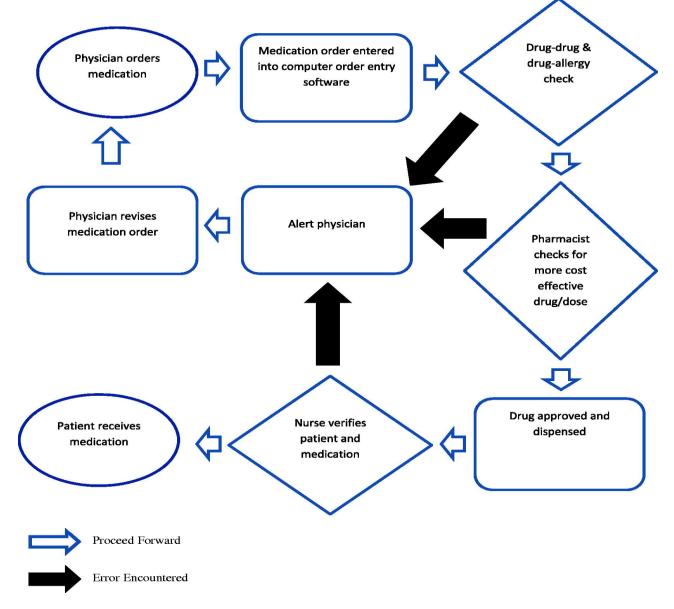
#### **Change Management: Key Features**

- 1) Stating a clear goal or outcome
- 2) Having buy in from all stakeholders
- 3) Training or simulation opportunities
- 4) Communicating clearly
- 5) Providing opportunities for feedback

#### **Principle # 2: Understanding Systems**

Tip # 3: Process Mapping

A **process map** is a step-by-step diagram that shows how resources and activities result in a specific outcome



#### **Principle # 2: Understanding Systems**

Tip # 4: Follow the Order

#### Tip # 4: Follow the Order

- ✓ Compare theoretical process mapping (Tip 3) with the reality of clinical practice
- ✓ Identify areas of complexity not captured by the diagram
- ✓ Witness processes that may be error prone
- ✓ Learn about healthcare systems by immersion in a process

## Principle # 3: Opportunities to Improve Quality of Care

**Tip # 5: Patient Care Outcomes** 

#### **Tip # 5: Patient Care Outcomes**

- Readmissions (potentially preventable with better discharge planning)
- 2. Medication errors (incorrect medication, dose or route of administration)
- 3. Diagnostic errors (wrong test, ordering unnecessary labs)
- 4. Nosocomial infections

✓ Audit: Problem + Standard + Care Process + Data + Analysis

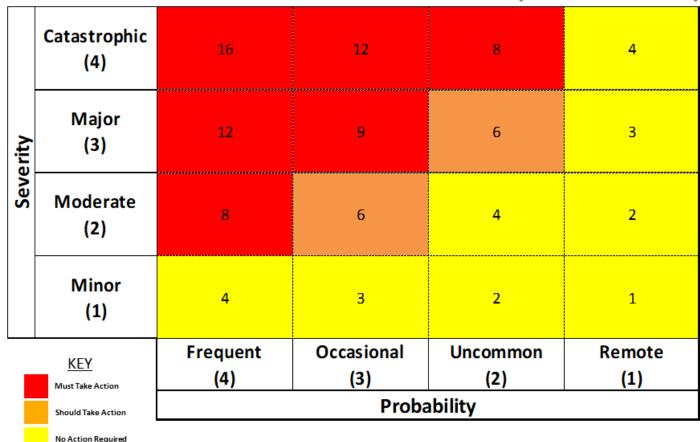
# Principle # 3: Opportunities to Improve Quality of Care

**Tip # 6:** Failure Mode Effect Analysis (Potential Errors)



© 2015 Quality-One International

# Healthcare FMEA Criticality Matrix (Hazard Score)



www.quality-one.com

https://quality-one.com/hfmea/

**Table 1.** Example of failure mode effect analysis.

Process step	Failure mode	Effect of failure	Possible mitigation
Drug-drug interaction check	Inpatient takes home medications not dispensed by pharmacy.	Patient has side effect from medication.	Ask patients to turn over all home medications on admission.
Drug-allergy interaction check	New patient allergy undocumented.	Patient has allergic reaction to medication.	Require physician to update allergy history on admission.
Check medication dosage	Patient's creatinine not checked, thus renal function unknown.	Patient develops toxicity to medication.	For renally cleared medications, cre- atinine check is compulsory within the past 48 hours.
Nurse verifies timing for medication	Timing of previous dose of medication not documented.	Medication effect compounded by dose stacking.	Require nurse to document timing of previous dose before dispensing next dose.

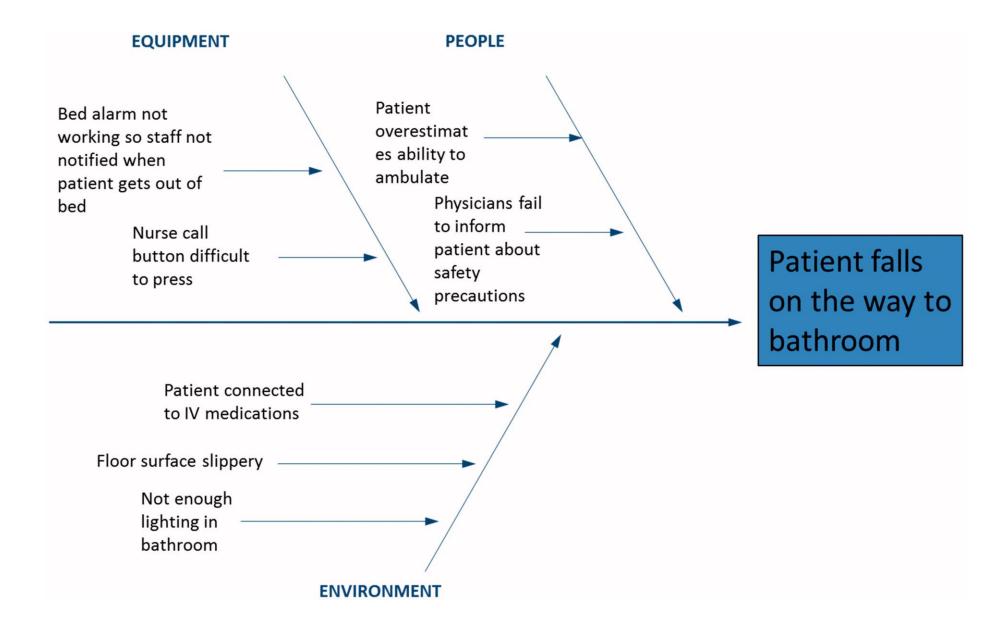
# Principle # 3: Opportunities to Improve Quality of Care

Tip # 7: Root Cause Analysis (After an Error)

# '5 whys': Incident: Wrong patient medication error

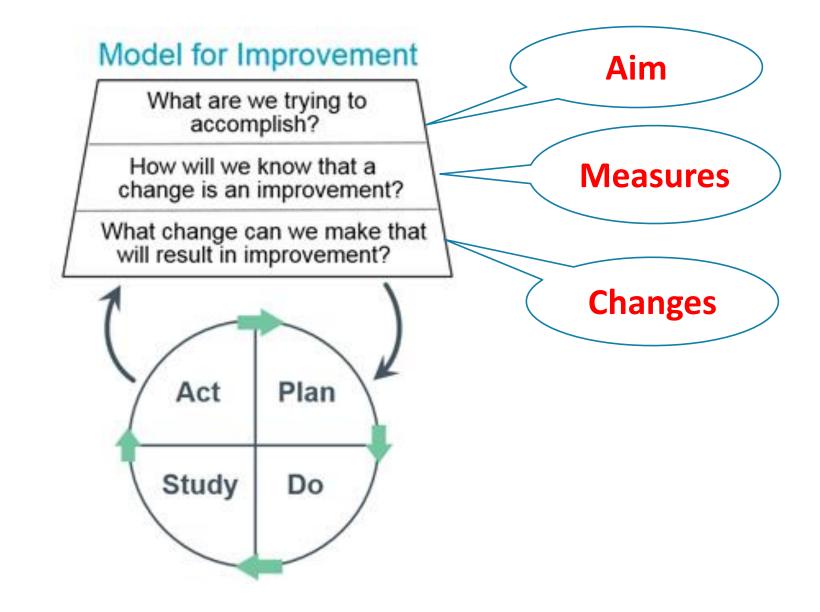
- ➤ Why? Patients with similar names in the same room
- > Why? Not feasible to try 'juggling beds'
- ➤ Why? Not enough nurses to deal with the influx of patients
- ➤ Why? Nurses affected by an outbreak of norovirus
- ➤ Why? Poor adherence to time-consuming infection control interventions
- Why? A culture of 'just get the job done'

Card AJ. The problem with '5 whys'. BMJ Qual Saf 2017;26:671–677.



Narayanan, et al. (2018). Twelve tips for teaching quality improvement in the clinical environment. Medical Teacher, 40(10), 1060–1066.





http://www.ihi.org/resources/Pages/HowtoImprove/default.aspx

Six Sigma	Lean	Model for Improvement
Improvement philosophy	220 80 92	S20028 2011
Continuous improvement	Continuous improvement	Daily improvement
Reduce unwanted variability	Staff respect and empowerment	Small-scale rapid cycle change with iterative learning
Approach		
Five-phased process (define,	Differentiate value-from nonvalue-	Set an aim
measure, analyze, improve,	added activities (waste)	Create balanced measures
and control)	Focus improvement efforts on eliminating waste	Identify and test changes
Common tools		
Mathematical modeling	Flow diagrams	Process mapping
PDSA cycles	Kaizen events	PDSA cycles
Control charts	Run charts	Run charts
	PDSA cycles	Control charts
Training		
Experience with quantitative	Lean apprenticeship	On the job improvement experience
statistics	On the job improvement experience	
On the job improvement experience		
Project length for improvement		
Months	Weeks to months	Days to weeks
Limitations		
Complex and less accessible to frontline staff	Japanese terms can lead to	Diagnostic tools and change ideas are adapted from other
Not ideal for projects focused on improving flow/speed	Not ideal for projects focused on statistical control and reducing variation	frameworks
Applications		
Cause of variation is unknown	Problems that can be directly	The main cause of the problem is
No immediate improvement	observed and managed visually	already determined, and change
solution exists	Increasing process flow and speed	ideas are easily identified Problems with established evidence-based solutions

Silver, et al. (2016). How to Begin a Quality Improvement Project. CJASN, 11(5), 893–900.

## Principle # 4: Designing Improvement

Tip # 8: Assessment Metrics

**Table 2.** Measuring successful medication administration.

	Structure	Process	Outcome	Balancing
Correct medication administration	Number of pharmacists. Number of nurses.	Computer system checking for drug-drug and drug-allergy interactions.  Pharmacist considering safer/ cheaper alternatives.  Nurse verifies medication.	Number of correctly administered medications.  Number of patients receiving correct medications.  Number of adverse events as a result of receiving the wrong medication.	Delayed medication administration.

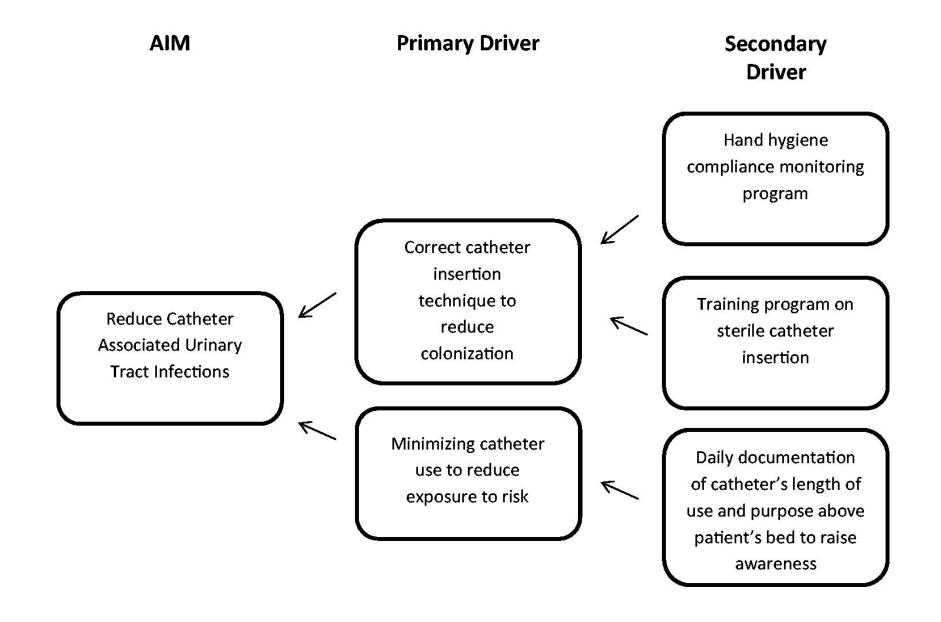
## Principle # 4: Designing Improvement

Tip # 9: Driver Diagrams

### **Driver Diagrams**

✓ Process maps identify all steps in an existing system

- ✓ **Driver diagrams** show the essential components of an intervention required to achieve improvement
  - ✓ Primary drivers: conceptual or system factors that influence the aim
  - ✓ Secondary drivers: actionable, measurable elements that affect the primary driver



## Principle # 4: Designing Improvement

# Tip # 10: SMART Aim Statement for QI Intervention

### **SMART Aim Statement for QI Intervention**

**Specific:** what/who is the target of improvement?

Measurable: How is the improvement going to be measured?

(Structures, Processes and Outcomes)

Achievable: Is the goal achievable with the available resources?

**Relevant:** Why is the goal important?

Time-bound: How long will it take to achieve results?

## **Principle # 5: Developing Interventions**

Tip # 11: Bedside Checklist

(adapted for England and Wale		
SIGN IN (To be read out loud) Before induction of anaesthesia	TIME OUT (To be read out loud)  Before start of surgical intervention	SIGN OUT (To be read out loud)  Before any member of the team leaves
Has the patient confirmed his/her identity, site, procedure and consent?  Yes  Is the surgical site marked?  Yes/not applicable  Is the anaesthesia machine and medication check complete?  Yes  Does the patient have a:  Known allergy?  No  Yes  Difficult airway/aspiration risk?  No  Yes, and equipment/assistance available  Risk of >500 ml blood loss (7 ml/kg in children)?  No  Yes, and adequate IV access/fluids planned	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 proceuder, site and position are planned?  Anticipated critical events  Surgeon:  How much blood loos 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?  Nurse/ODP:  Has the sterility of the instrumentation been confirmed (including indicator results)?	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?  This checklist contains the core
PATIENT DETAILS  Last name:  First name:  Date of birth:  NHS Number:*	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  • Glycaemic control  Has VTE prophylaxis been undertaken?  Yes/not applicable  Is essential imaging displayed?  Yes/not applicable	content for England and Wales  www.npsa.nhs.uk/nrls

Braham et al. **Application of the WHO surgical safety checklist outside the operating theatre: medicine can learn from surgery.**Clin Med 2014;14:468-474.

#### TIME OUT SIGN OUT SIGN IN BEFORE PATIENT LEAVES BEFORE STARTING BEFORE INDUCTION OF ANAESTHESIA (READ ALOUD WITH WHOLE TEAM PRESENT) (NURSE, ANAESTHETIST AND OPERATOR) (AT LEAST OPERATOR AND NURSE PARESENT) **OPERATOR, ANAESTHETIST AND NURSE - CONFIRM:** To OPERATOR, ANAESTHETIST AND NURSE: To OPERATOR, ANAESTHETIST AND NURSE: ■ Identity? ☐ IProcedure and site? ■ Any key concerns for recovery and Confirm all team members have □ Consent Signed? management of this patient? introduced themselves by name and role Consent form in date? **NURSE VERBALLY CONFIRMS:** Does the patient have a known allergy? Confirm patient's name, procedure, and ☐ Yes ☐ The name of the procedure ☐ No **ANTICIPATED CRITICAL EVENTS:** Completion of instrument, sponge and TO RADIOGRAPHER/NURSE AND OPERATOR: needle counts To OPERATOR (ANSWER ALOUD:) Are all IRMER requirements met? □ Specimen labelling (Yes/not applicable) ■ Any critical or non-routine steps? ☐ Yes Discuss duration of case Whether there are any equipment Is the site marked? Has antibiotic prophylaxis been given problems to be addressed ☐ Yes / not applicable within the last 60 minutes? Necessary equipment available & in date? Yes/ Not applicable ☐ Yes HANDOVER All essential imaging available? то Wном?: To ANAESTHETIST (ANSWER ALOUD:) Risk of Contrast Nephropathy considered? Discuss any patient-specific concerns NAME: SIGN: Risk of >500ml blood loss Does the patient need warming/cooling? ☐ No ☐ Yes/ Not applicable Yes, adequate IVs/ and fluids PATIENT DETAILS (ADDRESSOGRAPH): To NURSE (ANSWER ALOUD:) TO ANAESTHETIST AND ODP: ☐ Has sterility been confirmed? SURNAME: ■ Not applicable: ■ Any equipment issues or concerns? Omit this section if the case is under LA **FIRSTNAME** Defibrillator tested? Is the appropriate monitoring on the DOB ☐ Yes patient and functioning? External defibrillator pads on? ☐ Yes HOSP NO ☐ Yes/ Not applicable Difficult airway or aspiration risk? VTE prophylaxis undertaken? ☐ Yes/ Not applicable ☐ Yes, equipment/assistance available NAME: NAME: DATE: SIGN: SIGN:

LABORATORY INTERVENTIONAL SAFETY CHECKLIST (HAMMERSMITH HOSPITAL)

'Based on the WHO Surgical Safety Checklist, URL http://www.who.int/patientsafety/safesurgery/en, © WHO 2008 All rights reserved.' Adapted by Dr D Braham, Dr I Malik. September 2013

Braham et al. **Application of the WHO surgical safety checklist outside the operating theatre: medicine can learn from surgery.**Clin Med 2014;14:468-474.

## **Principle # 5: Developing Interventions**

Tip # 12: Plan-Do-Study-Act (PDSA) Cycles

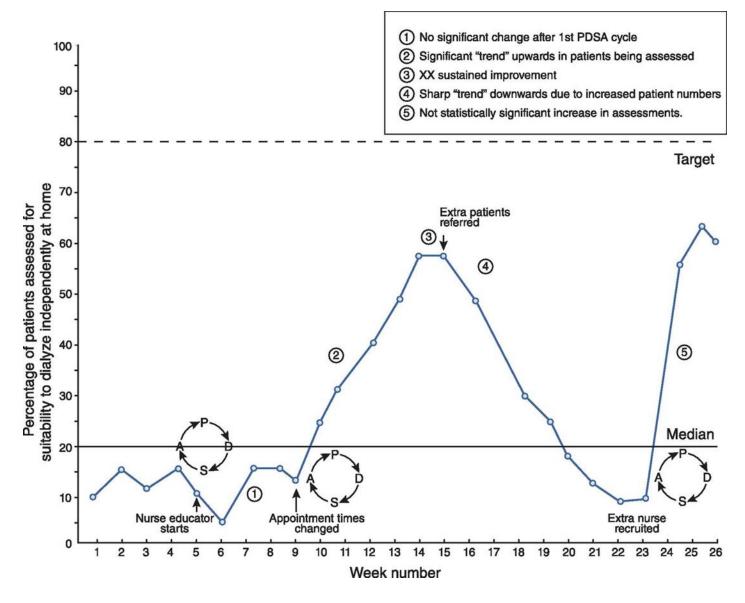
#### **PDSA Worksheet for Testing Change**

Aim: (overall goal you wish to achieve)

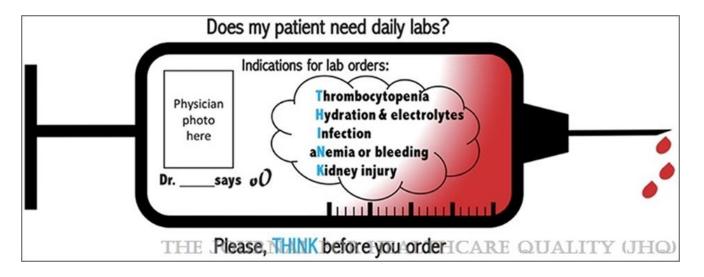
	Every goal will require multiple smaller tests of change					
	Describe your first (or next) test of change:		Person responsible	When to be done	Where to be done	_
<u>Plan</u>	List the tasks needed to set up this test of change		Person	When to	Where to	_
	List the tasks needed to set up this test of change		responsible	be done	be done	-
			1			_
	Predict what will happen when the test is carried out	Measures 1	to determine if	prediction	succeeds	
<u>Do</u>	Describe what actually happened when you ran the to	est				
<u>Study</u>	Describe the measured results and how they compare	red to the pre	edictions			

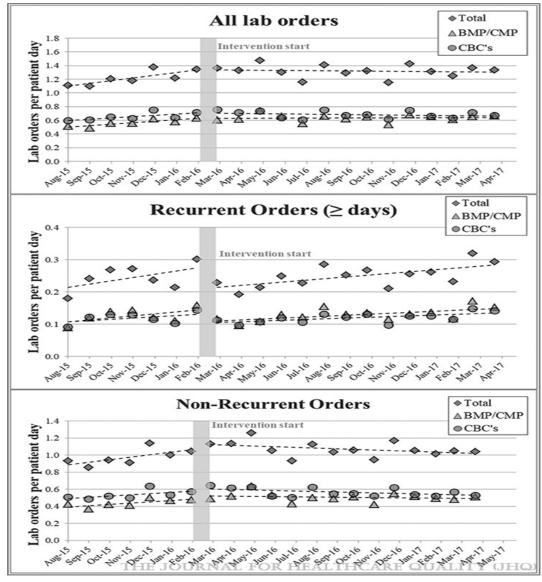
Act Describe what modifications to the plan will be made for the next cycle from what you learned

McQuillan et al. How to Measure and Interpret Quality Improvement Data. CJASN 2016;11:908-914



McQuillan et al. How to Measure and Interpret Quality Improvement Data. CJASN 2016;11:908-914





Shinwa, et al. **"THINK" Before You Order: Multidisciplinary Initiative to Reduce Unnecessary Lab Testing**. The Journal for Healthcare Quality (JHQ)41(3):165-171, May/June 2019.

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On Being a Doctor | 5 August 2008

### Plan-Do-Study-Act Cycle Rejuvenates a Marriage

Manoj Jain, MD, MPH

Author, Article and Disclosure Information

https://doi.org/10.7326/0003-4819-149-3-200808050-00013

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#### SPECIAL ARTICLE

# Changes in Medical Errors after Implementation of a Handoff Program

A.J. Starmer, N.D. Spector, R. Srivastava, D.C. West, G. Rosenbluth, A.D. Allen, E.L. Noble, L.L. Tse, A.K. Dalal, C.A. Keohane, S.R. Lipsitz, J.M. Rothschild, M.F. Wien, C.S. Yoon, K.R. Zigmont, K.M. Wilson, J.K. O'Toole, L.G. Solan, M. Aylor, Z. Bismilla, M. Coffey, S. Mahant, R.L. Blankenburg, L.A. Destino, J.L. Everhart, S.J. Patel, J.F. Bale, Jr., J.B. Spackman, A.T. Stevenson, S. Calaman, F.S. Cole, D.F. Balmer, J.H. Hepps, J.O. Lopreiato, C.E. Yu, T.C. Sectish, and C.P. Landrigan, for the I-PASS Study Group\*

N ENGL J MED 371;19 NEJM.ORG NOVEMBER 6, 2014

Mnemonic Letter	Description	Key Points	Starmer, et al. Changes in medical errors after implementation of a handoff program. N Engl J Med 2014;371:1803-12.
I	Illness Severity		
P	Patient Summary	<ul> <li>Should reflect global plan for entire hospital stay an</li> <li>Should be maintained and updated regularly with m necessary</li> </ul>	nodification of assessment, diagnoses, and changes in treatment plans as ith time and diagnostic certainty yet should retain key reason for admission to
A	Action Items	<ul> <li>Includes a "to-do" list with specific elements to acce</li> <li>Should specify timeframe for completion, level of p</li> <li>Specify "nothing to do" if no action items are antici</li> </ul>	
S	Situation Awareness and Contingency Plans	<ul> <li>members) and for each individual patient (status of contingency Plans: with situation awareness in min to handle anticipated problems.</li> <li>Typically includes "if/then" statements</li> <li>Specify "no contingencies anticipated"</li> </ul>	
S	Synthesis by Receiver	· Will vary in length and content depending on acuity	od nsibility loff, ensure clear understanding, and play an active role in handoff process

## **Study Conclusion:**

Implementation of the handoff program was associated with significant reductions in medical errors and in preventable adverse events and with improvements in communication, without a negative effect on workflow.



Starmer AJ, Spector ND, Srivastava R, et al. **Changes in medical errors after implementation of a handoff program**. N Engl J Med 2014;371:1803-12.

2019

# Clinical Documentation Improvement Project: Report of a Pilot Educational Intervention Study

Ahmad Raed Tarakji, MD, FRCPC, FISQua, CPHQ

On behalf of

Documentation Task Force: Dr. Ahmed Abdulwarith, Dr. Musa Alzahrani, & Mrs. Heba Bou Mahdi

Department of Medicine & QMD



### Problem

An internal audit (QMD) in May 2017: very low compliance of medical residents (use of free text notes not e-templates)

Patient's Chief Complaint: 23%

Past Medical History: 23%

Social History: 8%

**Change Project (University of Dundee, Sep 2018)** 



### **Strategy: FOCUS-PDSA**

F

- Find an Opportunity to Improve:
- Poor documentation affecting patient care efficiency and effectiveness

0

- Organize a Team:
- Documentation Task Force

Ċ

- Clarify the Current Process:
- Low resident compliance with documentation templates per audit by QMD

U

- Understand the Root Cause:
- Cause and Effect (Fishbone) Diagram & Empathy Map

S

- Select the Improvement Process:
- Small group interactive teaching sessions



### **Strategy: FOCUS-PDSA**

P

- Plan the improvement:
- Checklist, 2 meetings, & Feedback survey

D

- Do the improvement to the process:
- Meetings done & Feedback collected

S

- Check the results:
- Audit again to check improvement & Feedback was positive

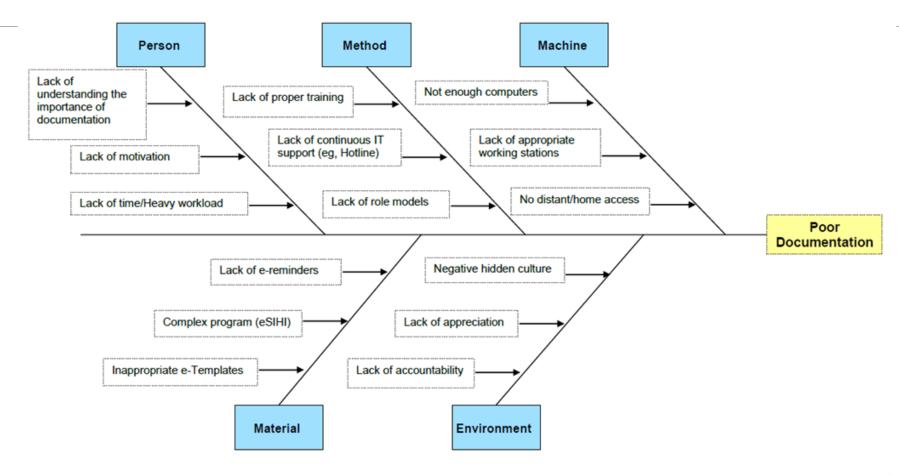
A

- Act to hold the gain and continue to improve the process:
- Needs to build capacity by intensive training for resident documentation champions



### **Assessment of Problem: Fishbone Diagram (Consultants)**

#### Cause and Effect ("Fishbone") Diagram





# Responding to patient safety incidents - Valerie's story (6:06)

https://www.youtube.com/watch?v=Dyw8Sf Z9XA



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#### **Article Contents**

STRENGTHEN THE SYSTEM AND **ENVIRONMENT** 

SUPPORT PATIENT, FAMILY AND COMMUNITY **ENGAGEMENT AND EMPOWERMENT** 

IMPROVE CLINICAL CARE

**REDUCE HARM** 

**BOOST AND EXPAND THE** LEARNING SYSTEM

CORRECTED PROOF

COVID-19: patient safety and quality improvement skills to deploy during the surge 🕮

Anthony Staines ™, RenÉ Amalberti, Donald M Berwick, Jeffrey Braithwaite, Peter Lachman, Charles A Vincent

International Journal for Quality in Health Care, mzaa050,

https://doi.org/10.1093/intqhc/mzaa050

Published: 27 May 2020 Article history ▼

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# COVID-19: patient safety and quality improvement skills to deploy during the surge

Staines, et al., International Journal for Quality in Health Care, mzaa050

- Strengthen the system by assessing readiness, gathering evidence, setting up training, promoting staff safety and bolstering peer support
- Engage with citizens, patients and their families so that the solutions are jointly achieved and owned by both the healthcare providers and the people who receive care and in particular the citizens who are required to undertake preventive interventions
- 3) Work to improve care, through actions such as the separation of flows, flash workshops on teamwork and the development of clinical decision support
- 4) Reduce harm by proactively managing risk to both COVID-19 and non-COVID-19 patients
- 5) Boost and expand the learning system, to capture improvement opportunities, adjust very rapidly and develop resilience

### **Questions & Evaluation**

