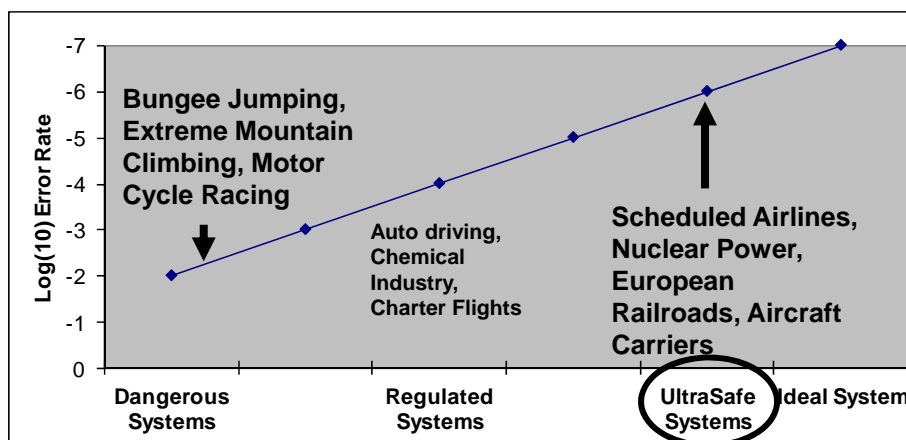


# Engaging the team:

## Steps to Reduce Complications

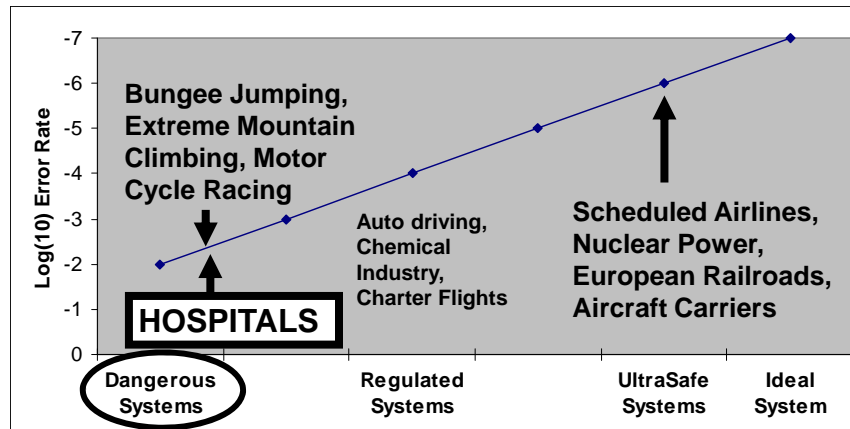
**Susan Moffatt-Bruce, MD, PhD**  
Chief Quality and Patient Safety Officer  
Associate Professor of Surgery  
The Ohio State University's Wexner Medical Center

## Safety Results



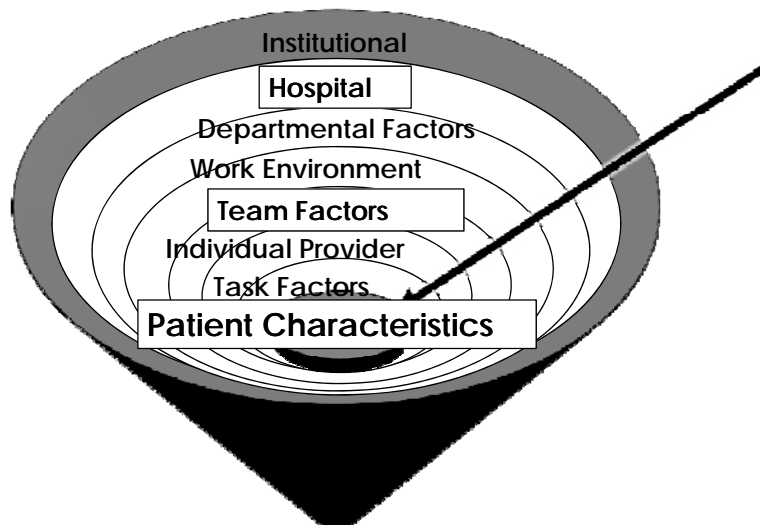
Amalberti, R. *Safety Science*, 2001

## Safety Results



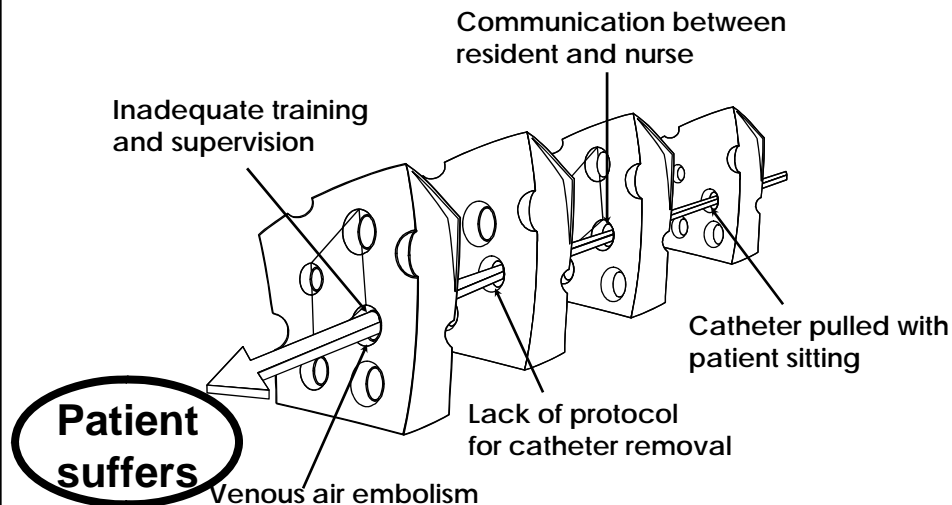
Amalberti, R. *Safety Science*, 2001

## System Factors Impact Safety



Adopted from Vincent

## System Failure Leading to Error

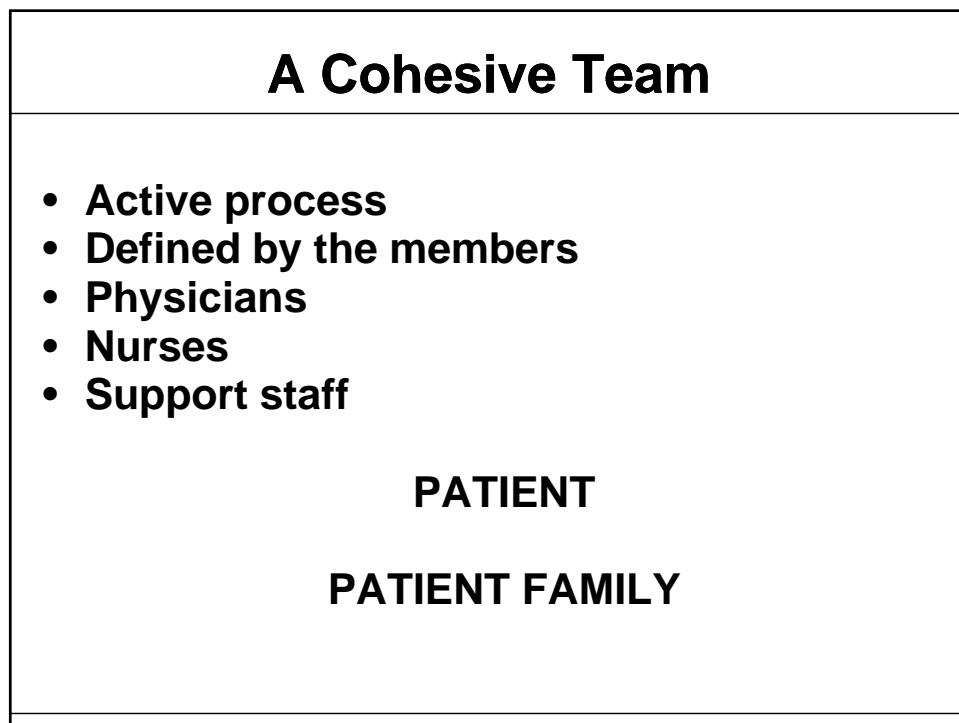
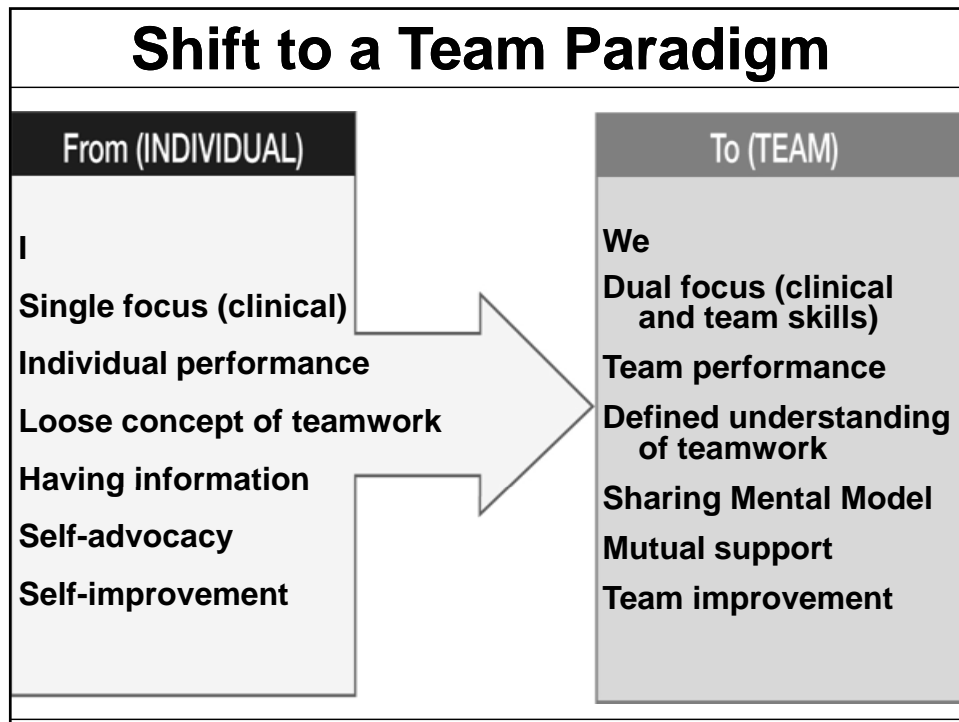


Pronovost Annals IM 2004; Reason

**Health care providers compromise an example of a “high risk organization”**



**Significant safety improvements in other high risk organizations (aviation) have lead to “high reliability organization”**



## **Barriers to an Effective Team**

- **Preconceptions & assumptions**
- **Ambiguous terms**
- **Workload, stress & fatigue**
- **Distraction & noise**
- **Silos**

## **Medical Errors**

- 1,000,000 people injured / year in US
- 7,000 deaths annually from medication errors
- 2000 to 10,000 deaths annually from anesthesia
- 1.7 errors/patient/day in the ICU

- **Every 100-300 times a nurse will forget to read a label or read it incorrectly**
- **Every 100-300 times a physician will off the prescription or write it incorrectly**

## **System Quality and Safety Scorecard**

| <b>Type of Event</b>   |
|--|
| Retained Foreign Bodies                                      |
| Wrong procedure/site/person events                           |
| Medication Events with Harm (Severity E-I)                   |
| Severe Injury Falls (Resulting in Change in Patient Outcome) |
| Hospital Acquired Decubitus Ulcer                            |
| Central Line Blood Stream Infections                         |
| Ventilator Associated Pneumonia                              |
| Hospital Acquired Surgical Site Infections                   |
| Hospital Acquired Clostridium Difficile Infection            |
| <b>Total Potentially Avoidable Events</b>                    |

## **Error Reducing Strategies**

- **1) Team Training**
- **2) Checklists and Visual Management**
- **3) Standardization of Processes**
- **4) Transparency**
- **5) Celebrate the success**

### **Strategy 1**

#### **Team Training**

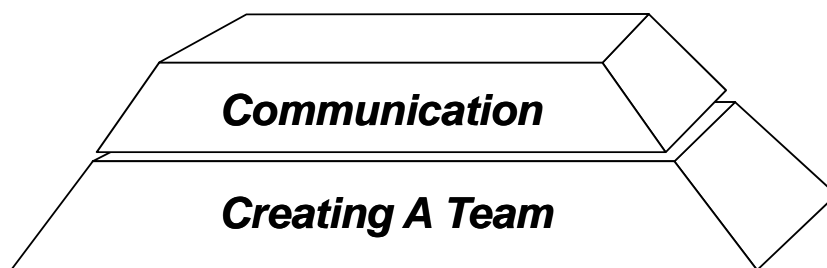
## ***Team Skills Workshop***

## ***Team Skills Workshop***

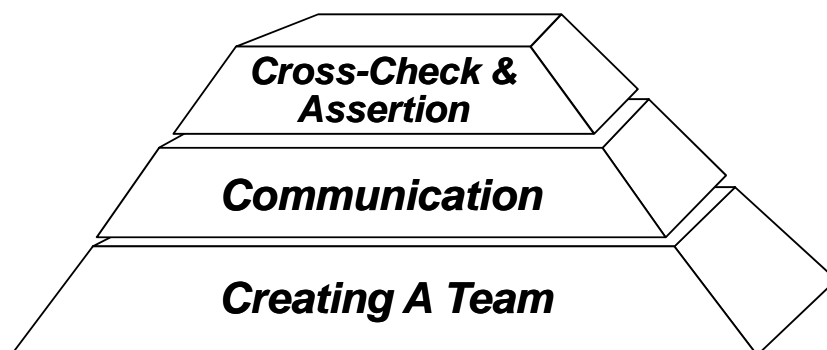
***Creating A Team***



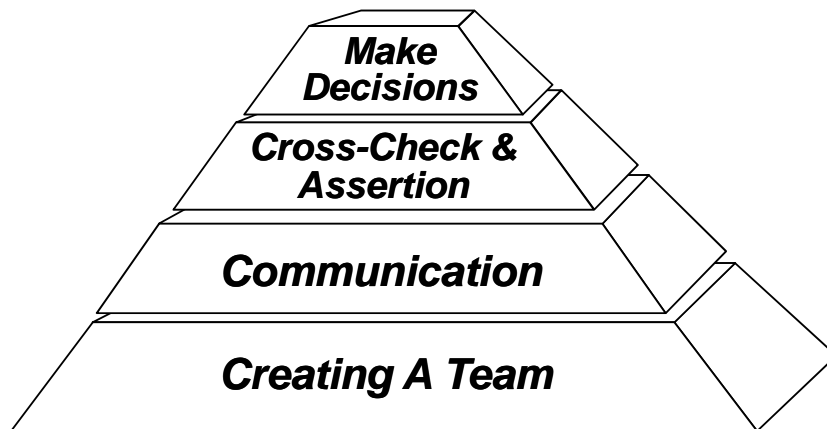
## ***Team Skills Workshop***



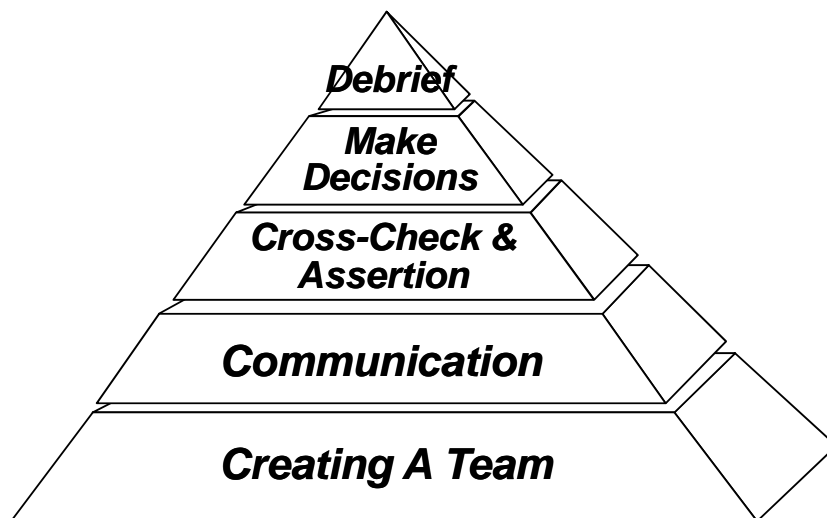
## ***Team Skills Workshop***



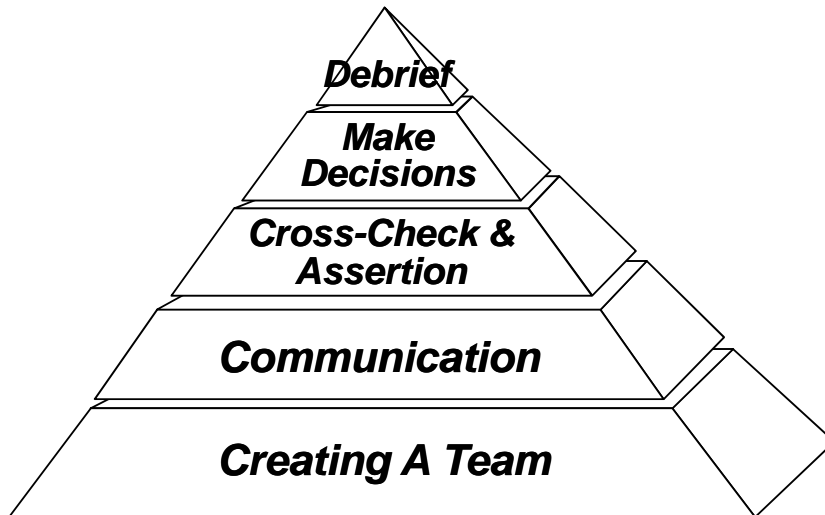
## ***Team Skills Workshop***




## ***Team Skills Workshop***



## Reduced Errors, Increased Safety & Quality Care



|  <b>OSU SURGICAL TEAM SAFETY CHECKLIST</b>   |   |   |
|---|---|---|
| <b>SIGN IN</b><br><b>(Before Induction)</b><br><small>Initiated/Led by Anesthesia Attending</small> <ul style="list-style-type: none"> <li><input type="checkbox"/> Team Members Introduce Themselves and Confirm Attending Surgeon In-House</li> <li><input type="checkbox"/> Patient Identification               <ul style="list-style-type: none"> <li>• Procedure</li> <li>• Site</li> <li>• Confirmed Consent</li> <li>• Blood Band</li> <li>• Allergies</li> </ul> </li> <li><input type="checkbox"/> Confirmation of Site Marking, When Applicable</li> <li><input type="checkbox"/> Anesthesia Assessment               <ul style="list-style-type: none"> <li>• Anesthesia Machine Check</li> <li>• Monitors Functional</li> <li>• Difficult Airway</li> <li>• Suction Available</li> <li>• Patient's ASA Status</li> <li>• Beta Blocker Given, if Indicated</li> <li>• Oxygen Level/Fire Safety</li> </ul> </li> <li><input type="checkbox"/> Blood Available</li> <li><input type="checkbox"/> Equipment Available</li> <li><input type="checkbox"/> What Questions Do You Have?</li> </ul> | <b>TIME OUT</b><br><b>(Before Skin Incision)</b><br><small>Initiated/Led by Surgeon</small> <ul style="list-style-type: none"> <li><input type="checkbox"/> New/Different Team Members Introduce Themselves</li> <li><input type="checkbox"/> Operation to Be Performed               <ul style="list-style-type: none"> <li>• Anticipated Operative Course</li> <li>• Blood Loss Anticipated</li> </ul> </li> <li><input type="checkbox"/> Site of Procedure</li> <li><input type="checkbox"/> Fire Safety               <ul style="list-style-type: none"> <li>• Oxygen, Tube, Saline in Cuff, Patient Protection, Environment Check</li> </ul> </li> <li><input type="checkbox"/> Prep Applied - Wait 3 minutes</li> <li><input type="checkbox"/> Patient Positioning</li> <li><input type="checkbox"/> Allergies</li> <li><input type="checkbox"/> Antibiotics Given               <ul style="list-style-type: none"> <li>• Time</li> </ul> </li> <li><input type="checkbox"/> Imaging Displayed</li> <li><input type="checkbox"/> Please Speak Up With Questions and Concerns</li> </ul> | <b>SIGN OUT</b><br><b>(Performed Immediately Following First Closing Count)</b><br><small>Initiated/Led by Surgeon</small> <ul style="list-style-type: none"> <li><input type="checkbox"/> Performed Procedure Recorded</li> <li><input type="checkbox"/> Body Cavity Search Performed</li> <li><input type="checkbox"/> Uninterrupted Count               <ul style="list-style-type: none"> <li>• Sponges, Sharps, Instruments</li> </ul> </li> <li><input type="checkbox"/> Counts Correct               <ul style="list-style-type: none"> <li>• Sponges, Sharps, Instruments</li> </ul> </li> <li><input type="checkbox"/> Specimens Labeled</li> <li><input type="checkbox"/> Team Debriefing               <ul style="list-style-type: none"> <li>• What Went Well?</li> <li>• Recommendations for Improvement</li> </ul> </li> <li><input type="checkbox"/> Sleep Apnea Order Set Needed</li> <li><input type="checkbox"/> Event Report Filled, if Indicated</li> <li><input type="checkbox"/> What Questions Do You Have?</li> </ul> |
| <small>           Adapted from NSQ-SAP Health Organization ©2009<br/>           ©2010 Ohio State University Medical Center ©2010         </small>   |   |   |
| <b>THANK YOU</b>  |   |   |



***See it***

***Say it***

***Fix it***

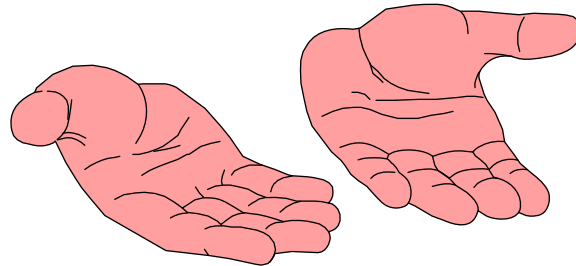
## **Strategy 2**

### **Checklists and Visual Management**

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# INFECTION PREVENTION



IS IN YOUR HANDS

**SILENCE**

**FOCUS**

*Procedure in Progress*





### **Nurse-Sensitive Indicators**

- **Fall and Fall-Injury Prevention**
- **Hospital-Acquired Pressure Ulcers**

## **Falls Policy and Process Changes**

Falls Practice Problem Group assessed and reviewed evidence-based literature to drive process improvements and reduce high-risk injury falls



### **Old Way**

Almost all patients were identified as at-risk for falls

Attached to Equipment, History of Falls, Altered Mental Status, Altered Elimination, Medications, Altered Mobility, Sensory/Communication Deficits, Physiological Risk



### **New Way**

Continue to identify patients at-risk and take appropriate interventions

Focus on patients at-risk for severe-injury falls

Susceptible to Fracture

Susceptible to Hemorrhage



## Highlights

- Pilot project conducted in 3 units initially, then expanded to UH Medical/Surgical units
- In the first 6 months of the pilot, the UH Medical/Surgical units had 0 severity level 2-4 falls; over the 12-month pilot, they had 2 severity level 2-4 falls
- New form implemented to facilitate documentation of patient risk and interventions



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## Effective Oct. 15

All patients with Fall-Injury Risk Factors (susceptibility to hemorrhage and/or fracture) must have:

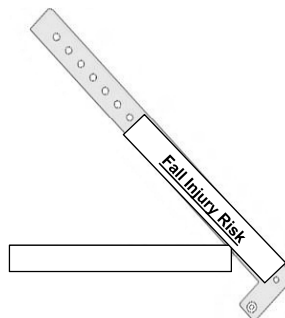
- ✓ Yellow wristband applied
- ✓ Yellow safety tag placed outside the patient room

(F.I.R. = Fall Injury Risk)

**Rm. 1212**

**Patient Name**


**F.I.R.**



# Hourly Rounds

Date:

Room:



A large clock face diagram used for recording hourly rounds. The clock has a black border and a white face with black tick marks. The hands are black. The clock is surrounded by a grid of time slots. The top of the clock is labeled 1200. The right side of the clock is labeled 1300, 1400, 1500 (Bedside Report), 1600, 1700, 1800, 1900 (Bedside Report), and 2000. The bottom of the clock is labeled 0100, 0200, 0300, 0400, 0500, 0600, 0700 (Bedside Report), 0800, 0900, 1000, 1100, and 2300 (Bedside Report). The left side of the clock is labeled 1200, 1300, 1400, 1500 (Bedside Report), 1600, 1700, 1800, 1900 (Bedside Report), and 2000.

## Falls Initiative Huddle Form

Date and time of fall: \_\_\_\_\_

Was fall assessment complete? Yes / No

Was patient at risk for injury? Yes / No

Was staff present? Yes / No

If yes, who? \_\_\_\_\_

Was fall assisted or unassisted? \_\_\_\_\_

Hourly rounding documented? Yes / No

Falls Patient Education documented? Yes / No

Did anything in the environment contribute to the fall (cords on floor, IV pump plugged in across the room, furniture obstructing walkway, etc.) Please list \_\_\_\_\_

Call light within reach? Yes / No

What caused the fall? \_\_\_\_\_

What is the lesson learned? \_\_\_\_\_

For additional information or a request for someone to come to a unit staff meeting to help with education on prevent falls, please contact Jan Sirilla, Director BMT & Heme Service Lines

# Bedside Report



**All Medical Surgical Nursing  
Departments**

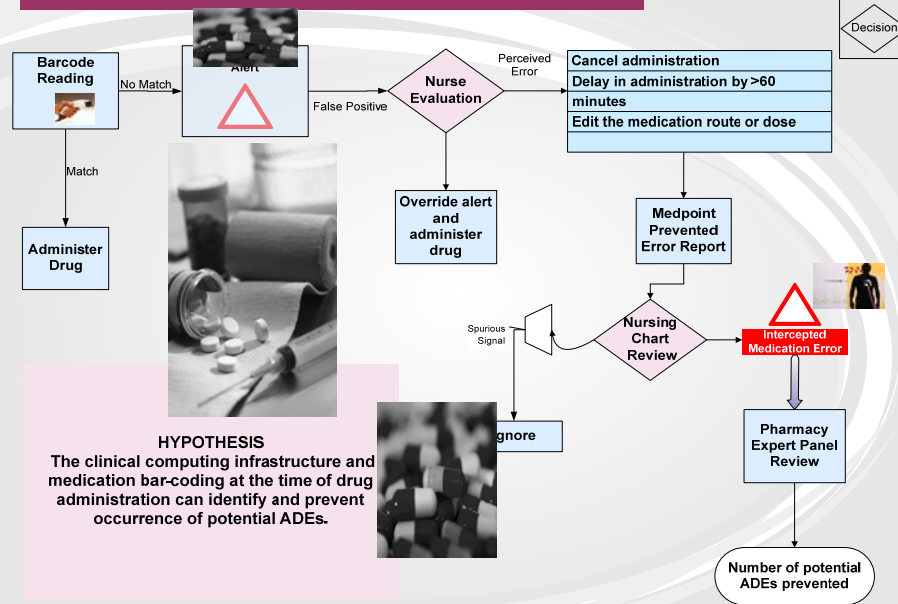
## Using ISBAR for Bedside Report

|                       |   |
|-----------------------|---|
| <b>Introduction</b>   | Patient Name, Room #, Service and Pager   |
| <b>Situation</b>      | Diagnosis, Acuity #, Code Status, Isolation Type, Allergies, Risk for Injury, Activity, Diet and Consults |
| <b>Background</b>     | History pertinent to diagnosis  |
| <b>Assessment</b>     | Neuro, Cardio, Resp, GI/GU, Tubes and Drains, Diet, IV Lines, Pain and Labs                               |
| <b>Recommendation</b> | Review plan of care, discharge plan, new orders / procedures and update white board.                      |

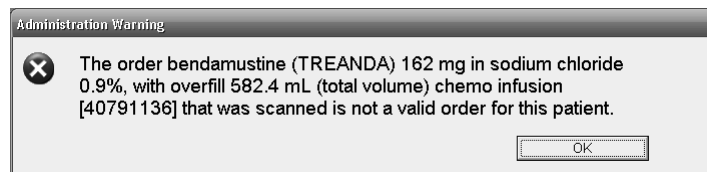
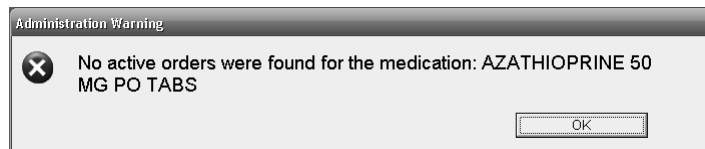
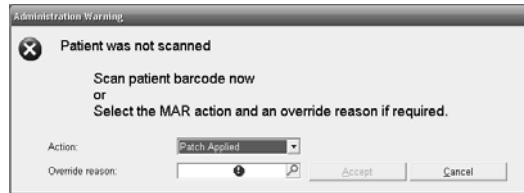
# Barcoding



## Algorithm for Analyzing Intercepted Medication Errors



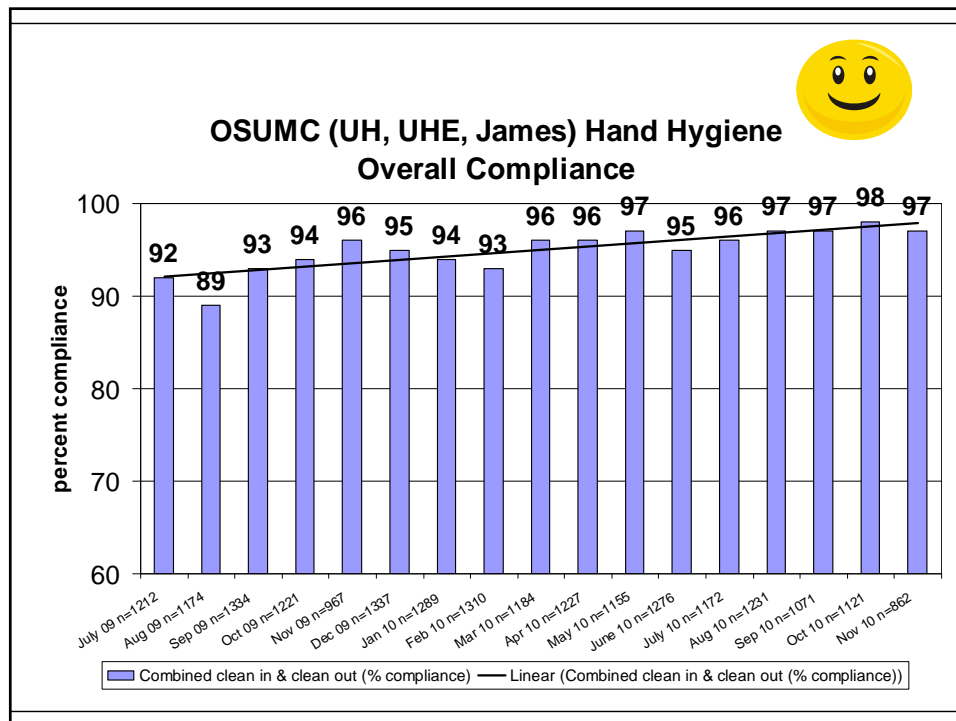
# Barcoding Warnings

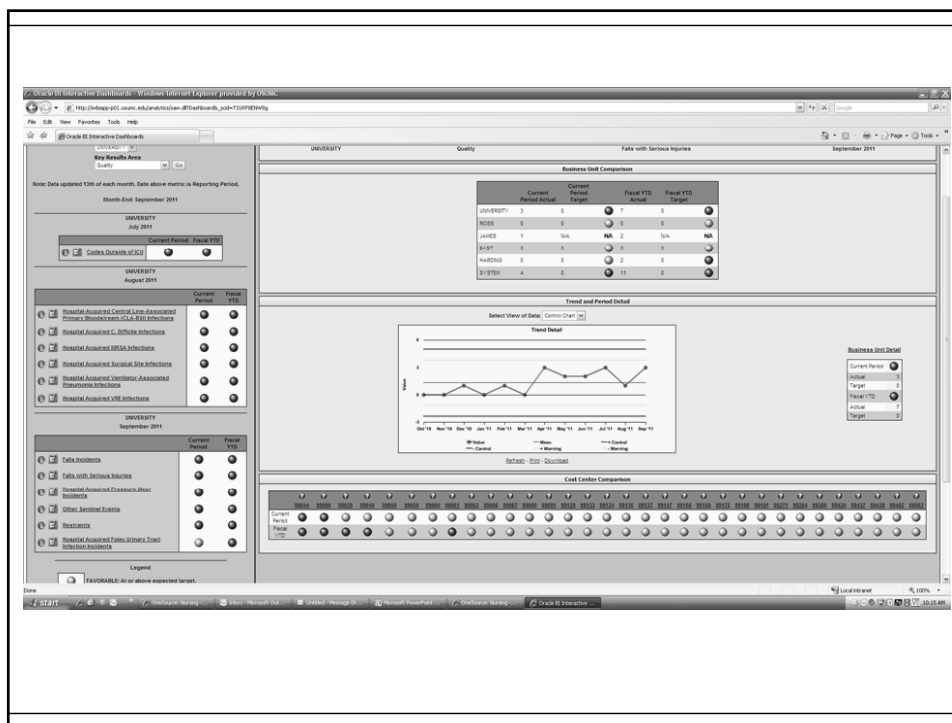
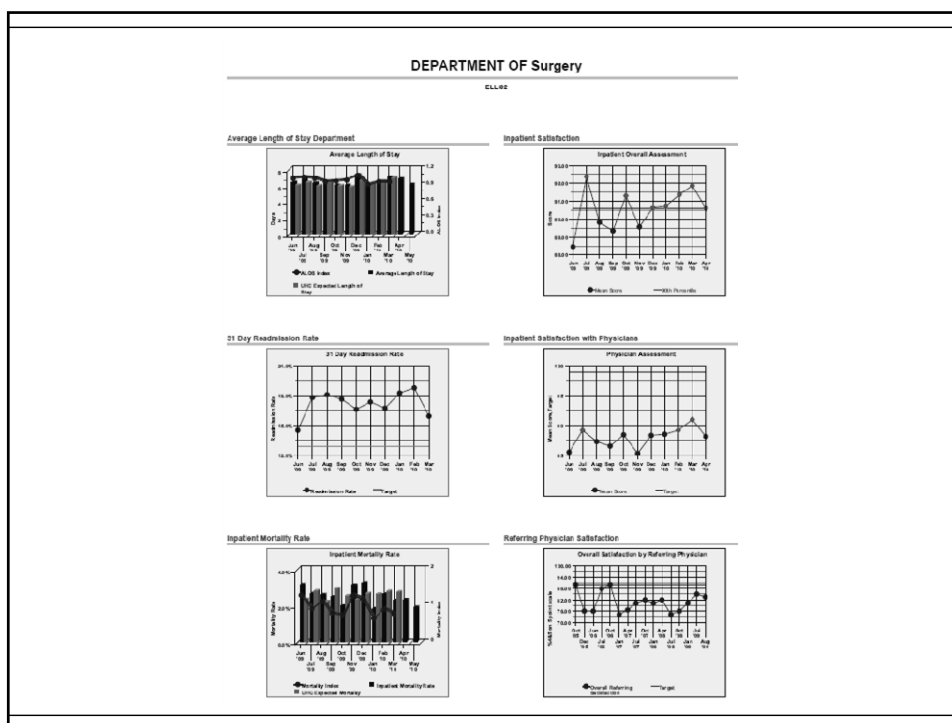


## Strategy 4 Transparency

## System Quality and Safety Scorecard

| Type of Event  |
|--|
| Retained Foreign Bodies                                      |
| Wrong procedure/site/person events                           |
| Medication Events with Harm (Severity E-I)                   |
| Severe Injury Falls (Resulting in Change in Patient Outcome) |
| Hospital Acquired Pressure Ulcer                             |
| Central Line Blood Stream Infections                         |
| Ventilator Associated Pneumonia                              |
| Hospital Acquired Surgical Site Infections                   |
| Hospital Acquired Clostridium Difficile Infection            |
| <b>Total Potentially Avoidable Events</b>                    |





# **Strategy 5**

## **Celebration**

### **Celebrate the Success**





# Good Catch!

**1** Focus: Patient Safety



Wexner  
Medical  
Center

| Title: What you are talking about?  |  | Owner/Date |
|---|--|------------|
| <b>I. Background</b><br>Why are you talking about it?<br><div style="text-align: right;"><b>DEFINE</b></div>  | <b>V. Proposed Countermeasures</b><br>What is your proposal to reach the future state, the target condition?<br>How will your recommended countermeasures affect the root cause to achieve the target?<br><div style="text-align: right;"><b>IMPLEMENT</b></div>   |            |
| <b>II. Current Conditions</b><br>Where do things stand today?<br>- Show visually using charts, graphs, drawings, maps, etc.<br>What is the problem?<br><div style="text-align: right;"><b>MEASURE</b></div> |  |            |
| <b>III. Goals/Targets</b><br>What specific outcomes are required?<br><div style="text-align: right;"><b>ANALYZE</b></div>   | <b>VI. Plan</b><br>What activities will be required for implementation and who will be responsible for what and when?<br>What are the indicators of performance or progress?<br>- Incorporate a Gantt chart or similar diagram that shows actions/outcomes, timeline, and responsibilities. May include details on specific means of implementation. |            |
| <b>IV. Analysis</b><br>What is the root cause(s) of the problem?<br>- Choose the simplest problem-analysis tool that clearly shows the cause-and-effect relationship.                                       | <b>VII. Followup</b><br>What issues can be anticipated?<br>- Ensure ongoing PDCA.<br>- Capture and share learning.<br><div style="text-align: right;"><b>CONTROL</b></div>   |            |

## **Error Reducing Strategies**

- **1) Team Training**
- **2) Checklists and Visual Management**
- **3) Standardization of Processes**
- **4) Transparency**
- **5) Celebrate the success**

## **Continuously Improving, Continuous Improvement**

- **Safe**
- **Simple**
- **Reliable**
- **Error proof**
- **Standard**
- **Wasteless Care**
  
- **Engagement of the whole team: paradigm switch**
  
- **Culture shaping**

## **Weak Safety Culture**

**A team that does not communicate, responds to mistakes with blame and more training and use them to complain and vent their frustrations**

## **Strong Safety Culture**

**A clinical area that has effective coordination of care, engaged caregivers, proactive identification of problems and solutions**

**Best care every time, every procedure, every patient, provided by everyone**

