# Nursing Education: Teaching Nurses Skilled Communication

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### Objective

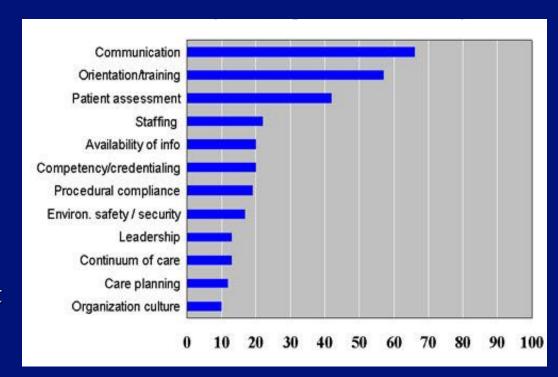
■ Demonstrate DNP leadership to impact nursing education by teaching nurses skilled communication.

### The frightening facts:

- The Institute of Medicine's (IOM) Report in 2001
- The Joint Commission on the Accreditation of Hospitals published data in 2006
- In more than 2900 sentinel events reported between 1995 and 2005, over two thirds report miscommunication as the root cause in their occurrence

### **Background for the Project**

- Institute of Medicine (IOM) Report, 2001
- Joint Commission, 2006
- Recommendations
  - Joint Commission Patient Safety Goal
  - Military, NASA and the FAA (Helmreich, 2000)



## **Consider These Potential Hospital Examples:**

- A night nurse chooses not to call a physician known to be verbally abusive. She uses her judgment to clarify a med order and administers a fatal dose of the wrong drug
- Isolated decision making in one department leads to tension and frustration
- Nurses are placed in leadership positions without preparation and support

#### **Skilled Communication**

- It is more than a one-way delivery of information....it is a two-way dialogue in which people think and decide together
- Organizations must make a priority to develop communication skills among it's employees - including written, spoken, electronic and non-verbal skills (that are on par with expert clinical skills)

### Skilled Communicators.....

- Focus on finding solutions and achieving desirable outcomes
- Seek to protect and advance collaborative relationships among colleagues
- Invite and hear all relevant perspectives
- Call upon goodwill and mutual respect to build consensus and arrive at common understanding

### Skilled Communicators.....

- Demonstrate congruence between words and actions, holding others accountable for doing the same
- Have access to appropriate communication technologies and are proficient in their use

### SBAR Communication in Healthcare

- Situation: What is going on with the patient?
- Background: What are the clinical facts surrounding the problem?
- Assessment: What do I think the problem is?
- Recommendation: What should be done to correct the problem? What do I need?

(Mahlmeister, 2005)

## Research Questions Reflect Purpose:

- 1. Does type of instruction for skilled communication utilizing the SBAR (Situation, Background, Assessment and Recommendation) technique influence communication knowledge of student nurses?
- 2. Does skilled communication education via didactic and role-play instructional methodologies utilizing the SBAR technique improve communication performance more than didactic instructional method alone?

## Significance of the Project

- Lack of evidence to support BEST practice for teaching communication skills to nurses
- Integration into nursing curriculum
- Serve to inform future education, in service training and research studies
- Future implications for interdisciplinary communication
- Enhanced communication can improve patient outcomes
  - Decreased sentinel events, medication errors, adverse events (Haig, Sutton & Whittington 2006)

### **Pilot Study**

- Pilot study served to inform DNP project
- Self report knowledge of SBAR in senior students
  - Only 3% had used SBAR in clinical setting
- Observation of 42 senior student nurses
  - Only 12% compliance with the SBAR components
  - Refinement of tools

## Methodology: Research Design

- Experimental design, random assignment
- RQ #1: pretest posttest design
- RQ#2: posttest only control group design

### **Study Procedures**

- Recruitment and consent
- Simple randomization
  - Didactic group
  - Didactic plus role play group

### Sample and Power

- Convenience sample of 115 traditional and second degree senior student nurses
  - Simple randomization
- RQ#1: 104
- RQ#2: 109
- Large effect size, power = 0.80
  - need 47 in each group

### Intervention

Didactic module on skilled communication

■ Role play exercise



### The following is an example of a scenario script for role-play.

- Situation: Mrs. Jones is a 65 year old female with end stage renal disease and critical potassium of 6.9.
- Background: Mrs. Jones has a past medical history of hypertension and was admitted yesterday for Abdominal Aortic Aneurysm repair. She missed dialysis two days ago. She has no known allergies and is a full code status.

### SBAR

- Assessment: Patient is presently in no apparent distress; vital signs are stable. The ECG shows tall tent like "T" waves.
- Recommendations: I recommend that we start STAT dialysis because the ECG shows signs of hyperkalemia. What medications would you like me to give to treat her hyperkalemia? The patient needs emergent dialysis.

#### Measures

- Skilled Communication
   Knowledge Pretest & Posttest
- SBAR Observed Behavior Checklist Tool
  - -5 item tool
  - Yes/No checklist

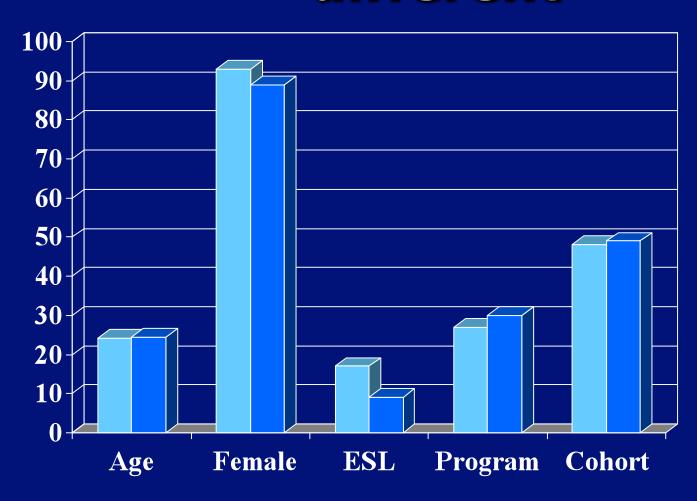
### **Data Analysis**

- Exploration of the data
- Missing data
- Demographics
- Establish like groups
- SBAR Knowledge pretest & posttest scores
  - T test
- Observed SBAR behavior checklist
  - Chi-square, dichotomous data

### Description of the Sample

- 49.6% second degree, 50.4% traditional nursing students
- 20-48 years of age, average 24 years
- **91% female**
- 13% English as a second language
- 50% April cohort, 50% December cohort

## Description of Sample: groups not statistically different



## Results RQ#1 Comparison of knowledge by instruction

	Pretest N=104	Post test N=104	Change in Knowledge N =104	Statistical Significance
All students	62.1 (14.5)	85.2 (10.5)	23.1 (16.1)	t = 14.5 (p<.001)
Didactic group (N=53)	60.4 (15.9)	84.7 (11.5)	24.3 (17.2)	Independent T test
Didactic + role play group (N=51)	63.9 (12.8)	85.7 (9.4)	21.8 (15.1)	t = 0.8 (p = 0.42)

## Results RQ#1: Change in knowledge by demographics

- Students > 25 years (t = 2.8, p < .001)
- Males > females (t = 14.0, p < .001)
- English as a second language (t = 14.6, p<.001)
- Second degree > traditional students (t = 14.3, p<. 001)
- April Cohort > December cohort (t = 14.2, p <. 001)

## Results RQ #2 First observation total SBAR performance score by type of instruction

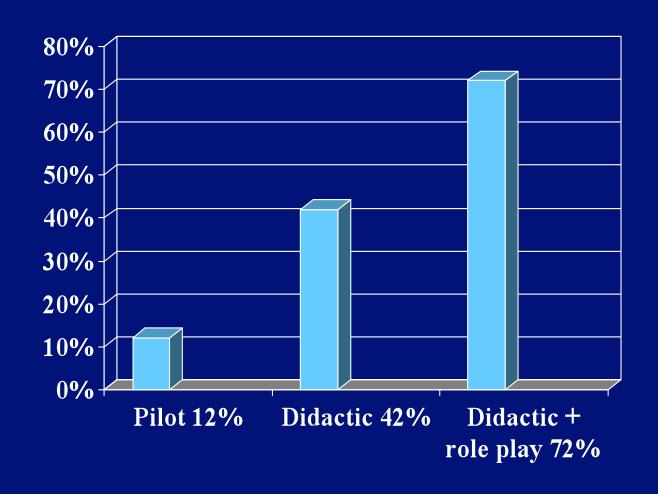
	First Observation N =109	Statistical Significance
	Mean (SD)	1 tailed t test (p)
All students	3.8 (1.0)	
Didactic group (N=55)	3.6 (1.1)	t = -2.6
Didactic + role play group (N = 54)	4.1 (0.9)	(p = 0.005)

## Results RQ #2 First observation total SBAR performance score by demographics

- No statistically significant findings
  - Age
  - Gender
  - English as a second language
  - Program of study
  - Cohort

## Results Comparison of overall compliance with SBAR communication performance during first observation

**Compliance ≥4/5 total observation score** 



#### Results

### Comparison of 5 components of SBAR performance on first observation

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	Didactic N = 55	Didactic + Role play N = 54	Statistical Significance			
	# (%)	# (%)	Chi Square			
Total Score of ≥ 4 = compliance	23 (42%)	39 (72%)	$\chi 2 = 12.8$ $p = 0.01$			
Before calling the provider, the student assessed the patient, reviewed the most recent progress note or received report on the patient.	53(96.4%)	54 (100%)	$\chi 2 = 2.00$ $p = 0.16$			
While speaking with the provider, the student identified himself/herself, the patient and the problem.	42 (76.4%)	47 (78%)	$\chi 2 = 2.07$ $p = 0.15$			
While speaking with the provider, the student identified the treatment to date regarding the patient he/she was calling about.	23 (41.8%)	35 (64.8%)	$\chi 2 = 5.79$ $p = 0.02$			
While speaking with the provider, the student related the most recent vital signs and any changes from prior assessments.	37 (67.3%)	42 (77.8%)	$\chi 2 = 1.51$ $p = 0.22$			
While speaking with the provider, the student made a recommendation or a request.	39 (70.9%)	42 (77.8%)	$\chi 2 = 0.67$ $p = 0.41$			

### **Summary of Findings**

- > Nurses' knowledge of skilled communication increased following didactic instruction
- > Older students, second degree students, male students and English as a second language students demonstrated a significant gain in communication knowledge
- Role play + didactic students performed significantly better on first observation using SBAR
- > Role play + didactic group performed significantly better on identifying background information regarding treatment to date in the SBAR communication than the didactic group

#### Limitations

- Sample of nursing students, sample size, setting
- Possible prior exposure to SBAR
- Limited scenarios
- **■** Tools used
- One time post test measure

### Recommendations for Future Studies

- Interdisciplinary communication training
- Evaluation of link between effective communication and improved patient outcomes
- Replication of study

larger sample size

assess long term retention

international nurses

variety of settings

### **Implications for Practice**

- Evidence of best practice to teach skilled communication using role play instruction
- Inform educators in healthcare facilities
  - In-service education, training, orientation
  - Schools of nursing
  - Interdisciplinary education

### **Implications for Practice**

- > Improved
  - **Communication**
  - > Collaboration
  - > Patient advocacy
- > Improved quality of patient care
  - > Reduced errors
  - >Improved patient outcomes

### Dissemination

- Publication: *Journal of Nursing Education*, in press Role Play utilizing SBAR Technique improves Observed Communication Skills in Senior Nursing Students
- National presentation: AACN, NTI, New Orleans, May 2009
- Podium presentation, DNP conference, San Diego, CA, September 2010
- Abstract presentation: regional AACN, Spotlight on Critical Care, 2010
- Abstract submission: AACN NTI, Chicago, IL 2011

### **Leadership Skills**

Conducting clinical inquiry

Advance role of educator

■ Mentoring, visioning

Collaboration



## Conclusion Evaluation of Evidence Based Outcomes

- Building the evidence
- Inform future education, training and research studies
- Disciplines within and outside of nursing
- Behavioral changes
- Positive outcomes for patients

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### Questions??

