Unfolding Case Study Simulation Strategies to Promote Clinical Judgment Using a Theatre Approach

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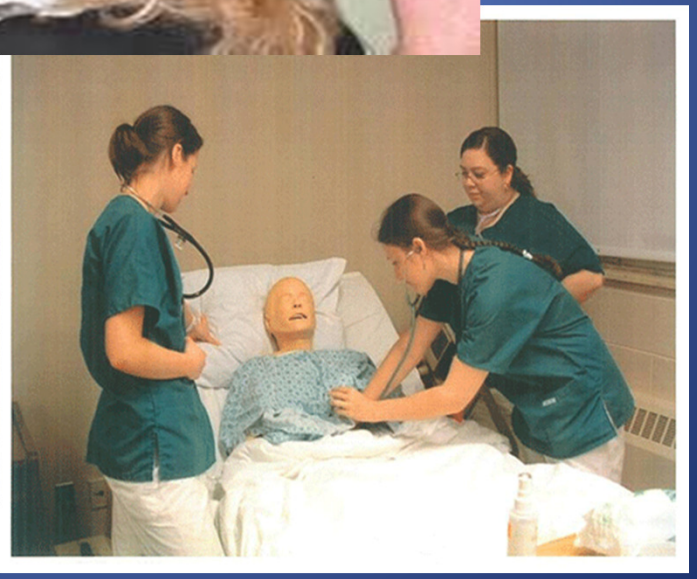
2015

One-Scene SIM via 2-way mirror

promotes individual and small group clinical judgment skills







Unfolding SIM via a Theatre Approach

promotes individual, large group, and team clinical judgment skills



All participants are physically in the room in a theatre-style configuration and are assigned a rotating "role" throughout the 4 unfolding "scenes"

The teams "report off" for the next team to assume care

Unfolding Case Study: Hyper K/ VT Arrest unfolds to Upper GI Bleed unfolds to Elder Abuse unfolds to Alcohol Withdrawal/Seizures

Admission
Pt.missed dialysis this week; Not feeling well; being admitted with dialysis scheduled for this evening.

Scene 1: Hyper K – VT Arrest

Team 1

TEAM receives REPORT: Learners interpret critical lab values and recognize **HyperK**

- Administer Calcium Gluconate 1g IVP, Dextrose 50 25g IVP, Insulin 10units IVP, Kayexalate 60g PO/NG/PR (chart via EMR)
- If no meds, Defibrillate for VF

Give Team Report and Debrief

Scene 2: Upper GIB

Team 2

TEAM 1 to TEAM 2 REPORT: Learners assess for **UGI bleed**

- Place NG Tube (PPE)
- Stabilize BP
- Type and Cross
- Prepare to transfuse (2 RN check)

Give Team Report and Debrief

Scene 3: Elder Abuse

Team 3

TEAM 2 to TEAM 3 REPORT: Learners **recognize odd family dynamic**

- Assess bruises on posterior upper legs
- Separate family member
- Interview patient
- Report to Social Work and APS (chart via EMR)

Give Team Report and Debrief

Scene 4: Alcohol Withdrawal - Seizure

Team 4

TEAM 3 to TEAM 4 REPORT: Learners assess **alcohol withdrawal (CIWA Scale)**

- Gather ETOH history
- Give 2mg Ativan per CIWA
- Active seizure if no CIWA or no Ativan

Give Team Report and Debrief

4-Part Unfolding Case Study Debrief

2014 Entropy Productions a Cayabyab Creation

PANAS Study
Positive And Negative Affect Scale

- **PANAS STUDY:**
- 65 participants with both active and observer roles.
- PANAS: 20-item validated instrument, completed after theatre-style simulation.
- Total ‘positive’ and ‘negative’ scores were calculated for each student. **“The positive emotional state between Active participants and Observers when using a Theatre Approach was equally experienced”**

Student Evaluations

217 evaluations: 1-4 Likert scale (x 4 years)

Simulation case studies contributed to nursing knowledge	**3.7**
Simulation improved course content	3.6
Simulation gave an opportunity to actively participate in clinical judgment	**3.7**
Debriefing contributed to learning	3.7
The debriefing promoted clinical judgment	**3.6**
Instructors facilitated student learning with simulation scenarios	3.7

Evaluations and Future Projects

- Study to correlate answers on “nursing judgment” questions based on clinical judgment learned from participating in unfolding SIM scenarios
- Refinement of “unfolding case study simulation using theatre approach ” as a strategy to teach others
- In development with Medical Resident to build unfolding case studies applicable to “Virtual Simulation” via Smartphone