USING A SIMULATED EHR TO FLIP THE LAB

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June 15-18, 2016

Gaylord Texan Resort Grapevine, TX



ANCC

Continuing Nursing Education



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DISCLOSURES

Conflict of Interest

- Nicole Smith (INACSL Conference presenter) reports no conflict of interest
- Mary Pat Ulicny (INACSL Conference presenter) reports no conflict of interest
- Julia Greenawalt (INACSL Conference Administrator & Nurse Planner) reports no conflict of interest
- Leann Horsley (INACSL Lead Nurse Planner) reports no conflict of interest

Successful Completion

- Attend 90% of session
- Complete online evaluation



OBJECTIVES

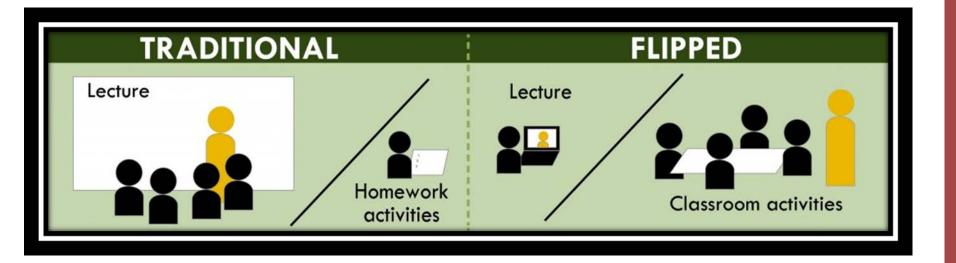
Upon completion of this presentation, participants will be able to:

- 1. Describe a Flipped lab teaching approach.
- 2. Identify one way a simulated EHR can be used to Flip the Lab.
- 3. Develop a plan to incorporate Flipped teaching approaches into the laboratory setting.



FLIPPED PEDAGOGY

- Use of technology to move lecture outside the classroom
- Moves homework and practice inside the classroom
- In-person class time used for active learning





LAB PHILOSOPHY

Simulation Lab at University of Maryland School of Nursing Shady Grove Campus

- Students: Undergraduate Nursing Students
- One hour and 50 minutes scheduled lab sessions
- Active learning (Simulation)
- Self-directed learning
- Hands-on Psychomotor practice



LAB REALITY

Nursing Professor

Nursing Student











TRANSFORMATION NEEDED

NLN Vision Series (2015)

- Reframe how nursing students are taught
- Use technology in creative and innovative ways

IOM Recommendations

 Wider use of information technology and use of Electronic Health Records

NLN call for transformation (2008)

- "Are nurse educators preparing technology-savvy nurses who can use informatics tools to provide safe, patient-centered, quality care based on evidence?
 - The simple answer is <u>no</u>"



TEACHING MILLENIALS

Millennials

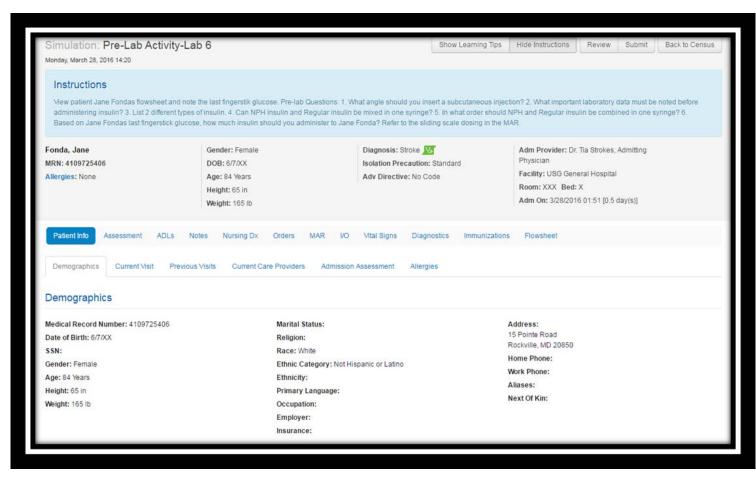
• Born: 1980-1995

Generation Z

• Born 1996-2010



PRE-LAB ACTIVITIES







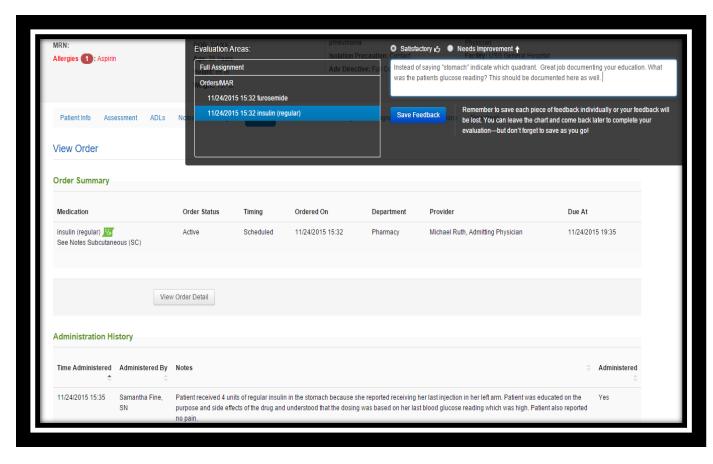


PRE-LAB ACTIVITY EXPECTATIONS

- Students complete <u>before</u> coming to lab
- Complete independently
- Use textbook, skills videos, lecture content



FEEDBACK



- Quick Feedback
- Just-in time



PRE-LAB ACTIVITY LOGISTICS

Questions within simulated EHR link to content objectives

Assist with navigating EHR and preparing for psychomotor skills practice

Answers reviewed during first 3 minutes of lab.

5-10 minute demonstrations given if needed

- Immediately followed by psychomotor skills practice
- Facilitated by instructor



SAMPLE QUESTIONS

Diabetes/Subcutaneous Injections/Capillary Blood Glucose Checks

- What important laboratory data must be noted before administering insulin?
- Based on Ms.Fondas last fingerstick glucose, how much insulin should you administer? Refer to the sliding scale dosing in the MAR.
- What angle should you insert a subcutaneous injection?

Answers found either within the textbook, required skills videos or simulated EHR



STUDENT FEEDBACK

"Prelab questions were incredibly valuable"

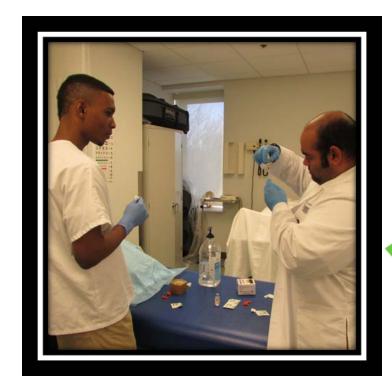
"Prelab questions weren't too difficult but they ensured I came into lab with an adequate and preliminary understanding."

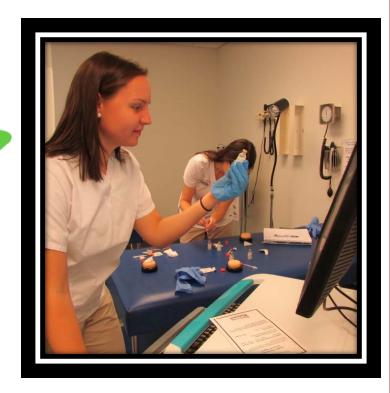
"Forced me to learn and read about the lesson before coming to class"

"Helped me to get familiar with [EHR]"



PSYCHOMOTOR SUCCESS







QUESTIONS





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