

University of Pittsburgh

**Simulating Simulation  
Bundle the Learning,  
Perfect the Practice,  
Improve the Outcomes**

Alice Blazcek, DNS, RN  
Gretchen E. Zewe, PhD (c), RN

School of Nursing

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

**Educational Approach**

- **Bundle the Learning**

Equipping students for success

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

**Student**

Smart      Want success

Human

---

---

---

---

---

---

---

---

University of Pittsburgh  
**First Term Sophomores**  
School of Nursing

Elevators

H and P

ED to OR

Nursing: a new world, new norms, new culture, new language.

---

---

---

---

---

---

---

University of Pittsburgh  
School of Nursing

**Objectives**

- Increase student competence /confidence
- Decrease Skills Lab expenditure
- Allow students to place patient at center of care

---

---

---

---

---

---

---

University of Pittsburgh  
School of Nursing

**Interventions**

- SON targeted videos
- Key design decisions
  - Skill
  - Analysis synthesis process
  - EBP
- Promote “perfect practice” by students

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

- For the very meaning of things known is wrapped up in their relationships beyond themselves. Thus, unapplied knowledge is knowledge shorn meaning.

• Alfred North Whitehead The Aims of education and other essays 1928 p.218

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

### Learning Bundle

Student Competence

Perfect Practice

Commercial Videos/Homework

Lecture Text

Student

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

### The 3 Apprenticeships

- Intellectual knowledge
- Skilled know-how and clinical reasoning
- Formation and ethical comportment
- Once separated- difficult to reunite.

Carnegie report

---

---

---

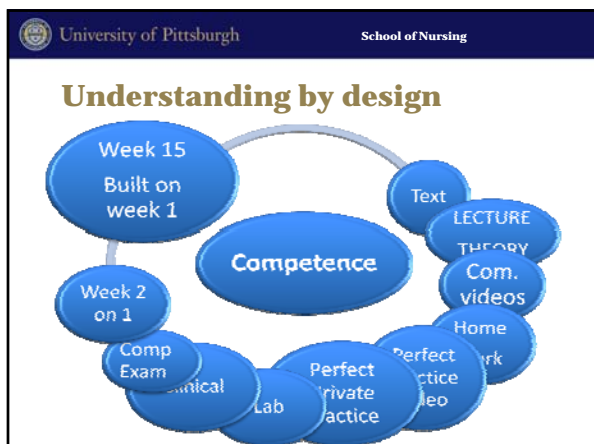
---

---

---

---

---



---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---

- University of Pittsburgh School of Nursing
- ### Sterile Technique Bundle
- Text
  - Lecture
  - Commercially available tools
  - SON targeted video
  - Practice kit
  - Skills lab

---

---

---

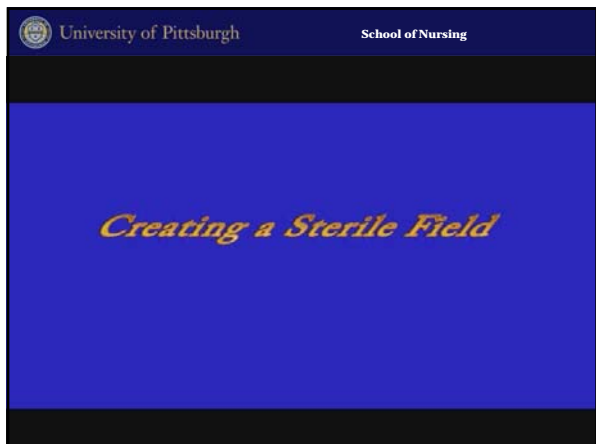
---

---

---

---

---



---

---

---

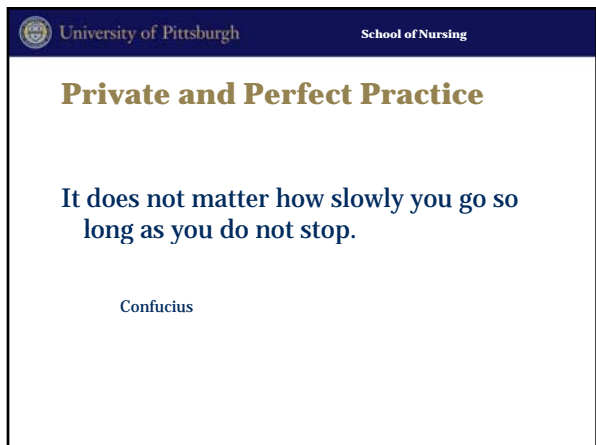
---

---

---

---

---



---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

### Positioning Bundle

- Text
- Lecture
- Commercially available tools
- SON targeted video
- Practice kit
- Skills lab

---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

Not enough pumps for practice?

IV Pumps

What can you already do with IVs?

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

### Central Line Bundle

- Text
- Lecture
- Commercially available tools
- SON targeted video
- Skills lab

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

### EBP Folder for Each Video

- Search history in detail
- Results
- Up to Date (quick and clean)
  
- Building

---

---

---

---

---


---

---

---

University of Pittsburgh School of Nursing

### Central Lines



---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

### Outcomes

- **Qualitative**
  - Faculty Survey
    - 1-4 scale: Mean ranges by skill is 3.5 to 3.9
  - Blog

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

### Do you think you are better prepared to put on and take off PPE (gowns) because of you practice at home.

- **Yes: 151**
- **No: 2**
- (7 blanks \_ two positive) 1.3 % 98.7%

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

**Do you think you are better prepared to put on & take off gloves because of your practice at home?**

- **Yes: 154**
- **No:1**
- 4 blank with comment

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

**Do you think you are better prepared to use a sterile field because of your practice at home?**

- **Yes:155**
- **NO:**

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

**Outcomes**

- Quantitative
  - Improved performance
  - Decreased time expenditure

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

Sample of comments

---

---

---

---

---

---

---

---

University of Pittsburgh School of Nursing

**Thank You.**

**Questions?**

---

---

---

---

---

---

---

---