Merging of Relevant IPE Themes from a Longitudinal **Curriculum to Create a Capstone Project**

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Background

- 592 students participated in a year long Interprofessional Education and Development course (IPED)--2 hour sessions for 16 weeks (8 weeks spring 2014; 8 weeks fall 2014)
- During the sessions and for the capstone project students worked in small interprofessional teams of 7-8 students
- Sessions utilized a team based learning approach
- Based on the four IPEC competencies, we categorized the sessions into the following domains:
 - Teamwork and collaboration
 - Values and ethics
 - Quality and safety
- Each individual session covered one of the three domains with connections made between sessions when appropriate.
- To enhance student retention of concepts, application exercises were used (i.e. 8 step ethical analysis, etc.).
- The purpose of the capstone session was to allow students to demonstrate their integration and synthesis of key concepts taught during didactic sessions.

Methods

- The culmination of the course was a final two hour capstone session evaluating all three topic areas-teamwork and collaboration, ethics, and values and quality and safety.
- Students were required to review select material from previous sessions prior to the capstone.
- Highlights of the final project included:
 - An initial case scenario of a medical error.
 - Using team based tenets, teams conducted a root cause analysis.
 - The case scenario progressed and the students then began completion of an 8 step ethical analysis.
 - During the 8 step ethical analysis, teams were given an additional task to be completed in a limited amount of time.
 - Students utilized interprofessional communication tools such as huddles/debriefs and based on knowledge of professional roles and responsibilities to allocate resources and complete all required tasks.
 - Students were required to make a final presentation and were graded by their peers given a specified rubric.

Results

- Students were surveyed at the end of the semester using the online learning management system, Canvas. Student participation was mandatory.
- Students were asked to score the capstone on a 5 point Likert Scale on the following questions:
 - The capstone exercise provided an effective opportunity to demonstrate my knowledge and skills.
 - The capstone effectively enabled me to meet its stated objectives.
 - The capstone was an effective way for me to synthesize IPED course content.

Spring Semester

Session Topic	Comp
Team Structure	Team Collab
Background/Intro	Value
Process of Ethical Analysis	Value
Roles and	Team
Responsibilities, Leadership	Collat
Systems level practice	Qualit
Situational monitoring	Team
and mutual support	Collat
Informed consent and decision making	Value
Patient engagement	Qualit

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Fall Semester

Competency Domain	
Teamwork & Collaboration	
Teamwork & Collaboration	
Values and Ethics	
Values and Ethics	
Quality & Safety	
Quality & Safety	
Teamwork and Collaboration	
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Capstone Session

neline	Team Task
minutes	 Part IError identification, reporting and system analysis Root Cause Analysis Preventive recommendations
minutes	Part II8 step ethical analysis of situation resulting from error in part I
minutes	Part IIITeam Presentations to hospital administrative team regarding error and system improvement recommendation from part I and ethical analysis and decision from Part II
ninutes	Individual reflection



- Course.
- information obtained from individual sessions taught throughout the year.
- knowledge and skills of the students in applying key concepts.
- for different domains and activities at other institutions.

- 23:1, 41-51. doi:10.1080/13561820802338579
- D.C.: Interprofessional Education Collaborative.
- 4. Michaelsen, Larry K. (1997-1998) Three Keys to Using Learning Groups 9. POD Network, Ames, IA,. Rev 10/1/07



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Conclusions

Based on this one cohort, students from 6 various health professions programs perceived the capstone project to incorporate the key concepts from the IPED

Students perceived the capstone project to be an adequate way of demonstrating their knowledge and skills around key concepts within the competency domains.

Students found the capstone session required them to synthesize and integrate

This data is based on student self-perception; therefore, further assessment of the final capstone project products would allow for more objective measurement of the

The data suggests that a capstone project incorporating the four IPEC domains in a team based learning environment is an effective learning tool in our institution.

Further adaptation of this process would suggest that this framework could be used

References

1. Suter, E., Arndt, et. al. Journal of Interprofessional Care. Role understanding and effective communication as core competencies for collaborative practice. 2009

2. Reeves, Scott. (2012), The rise and rise of interprofessional competence. Journal of Interprofessional Care, 26:253-255. DOI: 10.3109/13561820.2012.695542

3. Interprofessional Education Collaborative Expert Panel. (2011). Core competencies for interprofessional collaborative practice: Report of an expert panel. Washington,

Effectively. Adapted from the Professional and Organizational Development network Essay Series Teaching Excellence: Toward the Best in the Academy, Vol.