Going Big: Integrating IPE Across a Large Health Sciences Campus

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Disclosures

- Employed by VCU, MCV Physicians
- Funded by HRSA, CMS, Reynolds Foundation, and Macy Foundation (prior)
- Co-owner of an educational technology company stemming from one of our IPE programs

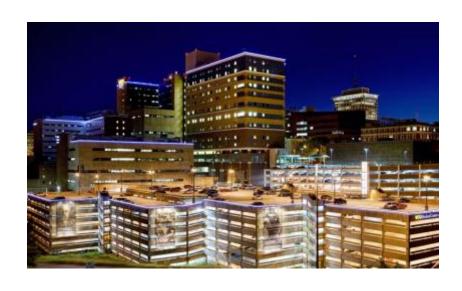
 Many faculty, staff, and students have contributed to this presentation

Objectives

- Describe a framework for integrating interprofessional education across a large population of learners
- Give examples of different instructional modalities for interprofessional education
- Outline some initial work for a developmental approach to assessing interprofessional competency

Virginia Commonwealth University

- 53 acre Health Science campus
- 5 health professional schools: allied health, dentistry, medicine, nursing, pharmacy
- Tertiary academic medical center
- 3200 clinical learners



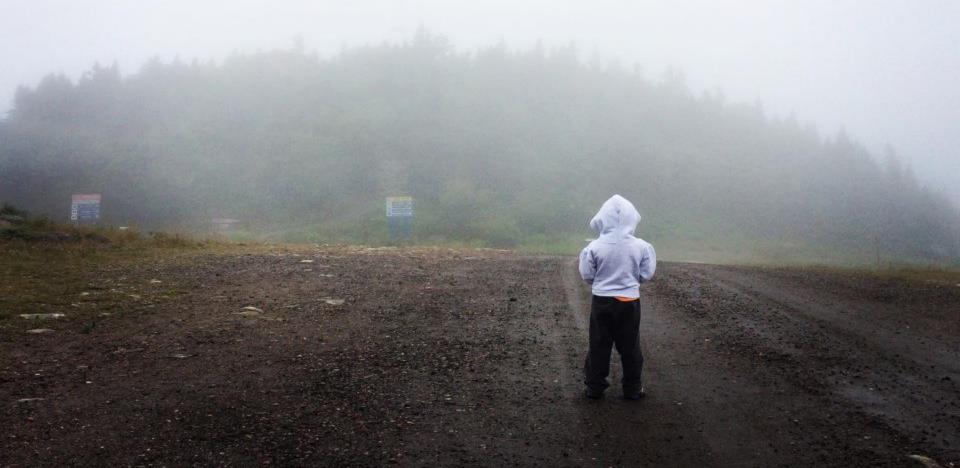


- Monroe Park campus
- School of social work, departments of psychology and health & human performance
- Distant training sites:
 - Inova-Fairfax (70 miles north)
 - UVA (70 miles west)



The Challenge:

Meet our organizational missions and accrediting standards by implementing effective interprofessional education.



The Center for Interprofessional Education and Collaborative Care

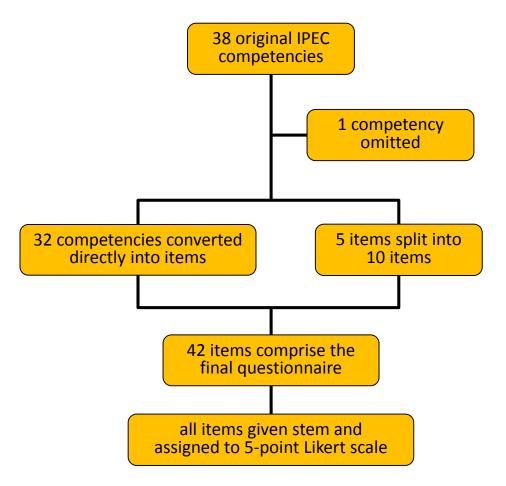
- Official center at VCU in January of 2013
- >1500 learners
 participate in Center
 programs annually
- Students and faculty from all five health science Schools, the School of Social Work, & Dept of Psychology



Interprofessional Collaborative **Practice Competencies** Inter-Teams and Values/ Roles/ professional Teamwork Responsibilities **Ethics** Communication (n = 9)(n = 10)(n = 11)(n = 8)

Interprofessional Education Collaborative Expert Panel. (2011).

Tool and Survey Methods



- Assesses student self-efficacy using a Likert scale
- Administered as an online survey with invitation email
- Sent to students by program leader

Survey Population

 All students enrolled in clinical degree programs on VCU's Health Science Campus

Allied Health

Nine Departments

Dentistry

DDS and Dental Hygiene

Medicine

MD and non-MD students

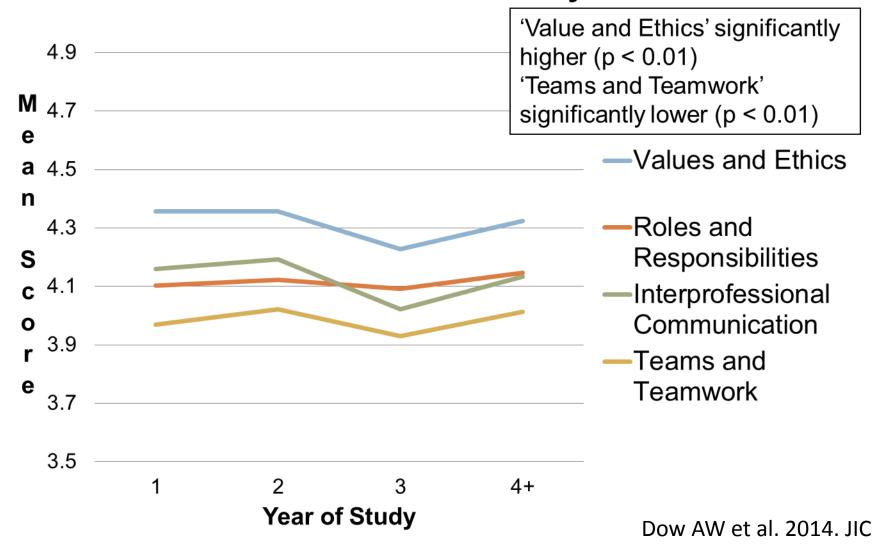
Nursing

BSN, MSN, PhD

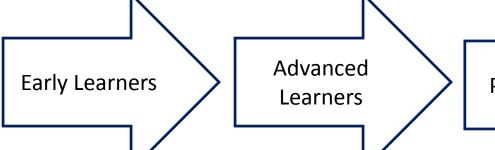
Pharmacy

Dow AW et al. 2014. JIC

Mean Scores by IPEC Domain versus Year of Study



Center for Interprofessional Education and Collaborative Care



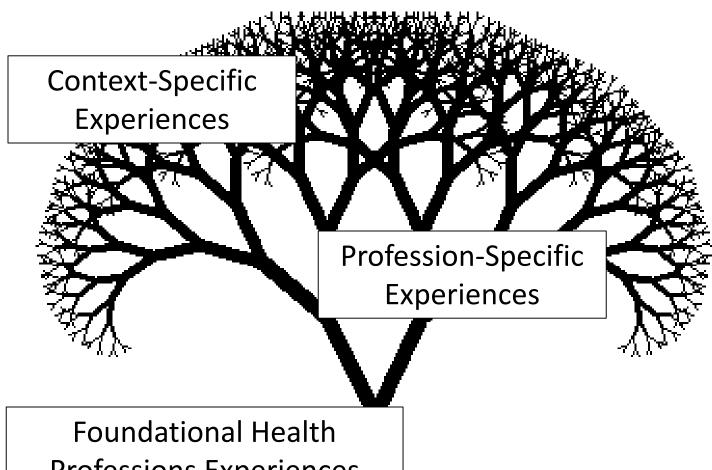
Practitioners

Effective, efficient, appropriate collaborative practice

Maintain high attitudes (Value & Ethics)

Build core knowledge (Roles & Responsibilities, Communication, Teams)

Collaboration skills (Communication, Teams & Teamwork)



Professions Experiences

Pre-Curricular **Experiences**

Foundational Health Professions Experiences

<u>Interprofessional Case</u> Series

- >600 students
- Classroom-based
- Pericurricular sessions → full 1credit course

Foundations of Quality and Safety

- ~500 students
- Classroom-based
- Full 1-credit course



2012-2013

Extracurricular Interprofessional Case Series

- Meet your peers
- Learn something (roles)
- Encouraged but not required
- Pizza
- Positive evaluations with suggestions





2012-2013

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2013-2014

Pericurricular Interprofessional Case Series

- Meet your peers
- Learn something (roles, teams)
- Required*
- Positive evaluations with suggestions





2012-2013

Extracurricular Interprofessional Case Series

- Meet your peers
- Learn something (roles)
- Encouraged but not required
- Pizza
- Positive evaluations with suggestions

2013-2015

<u>Pericurricular</u>

Interprofessional Case Series

- Meet your peers
- Learn something (roles, teams)
- Required*
- Positive evaluations with suggestions

2015-2016

Curricular

Foundations Course

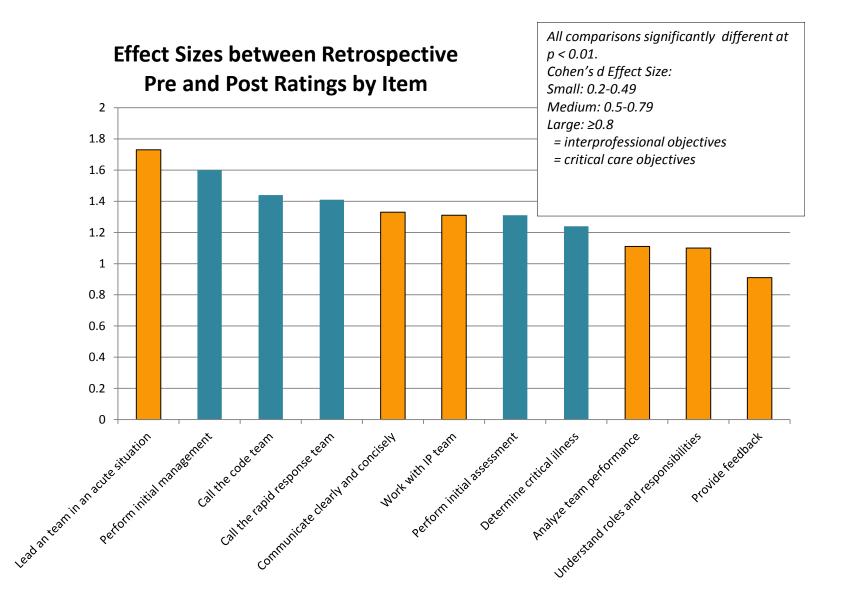
- Meet your peers
- Learn
 something
 (roles, teams,
 systems)
- Required 1credit course

Profession-Specific Experiences



<u>Interprofessional Critical Care</u> Simulations

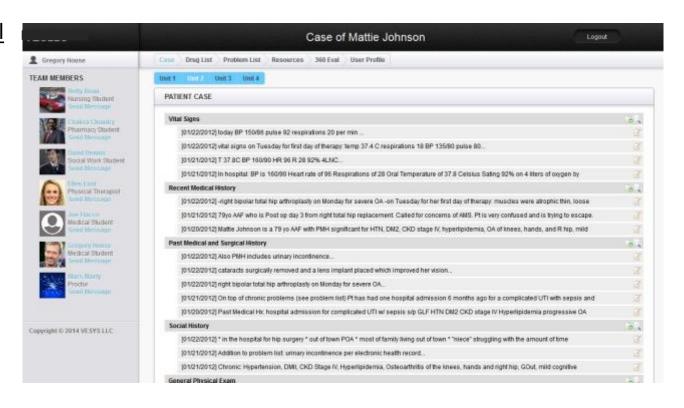
- All BSN4s and M4s (320 students)
- Three two-hour sessions around simulators: how do you manage a patient with an acute clinical deterioration?
- Student feedback: more!

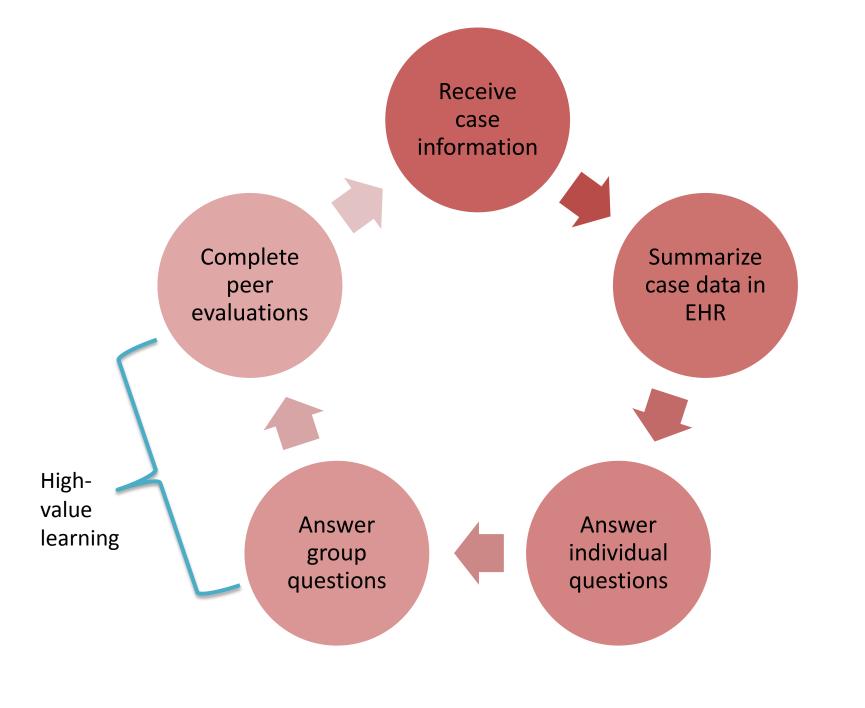


Profession-Specific Experiences

<u>Interprofessional Virtual</u> Case

- Homegrown case system for asynchronous collaboration
- ~600 participants annually (SOM, SON, SOP, SOSW)
- Now being used at several other institutions





Case Activity Measures

Case activity measures	Medical Students (n=194)	Nursing Students (n=146)	Pharmacy Students (n=60)	Social Work Students (n=122)
Logins	21 (2-98)	28 (5-197)	25 (2-86)	22 (1-114)
EHR entries	11 (0-44)	14 (2-53)	5 (0-19)	7 (0-43)
Message board posts and	8	8.5	9.5	5
replies	(0-157)	(0-131)	(0-81)	(0-108)
Message board posts	24	27	36.5	17.5
viewed	(0-659)	(0-675)	(0-335)	(0-460)

Correlations between Case Activity Measures and Scores

	1	2	3	4	5	6	7
1. Individual Score	_						
2. Individual Logins	0.32*	_					
3. Individual EHR Entries	0.33*	0.32*	_				
4. Individual Message Board Posts/Replies	0.39*	0.50*	0.28*	_			
5. Individual Message Board Views	0.35*	0.46*	0.25*	0.80*	_		
6. Team Score	0.18*	0.23*	0.07	0.34*	0.27*	_	
7. Team Size	-0.03	-0.01	-0.10	-0.12	-0.03	0.02	_

Correlations between Case Activity Measures and Scores

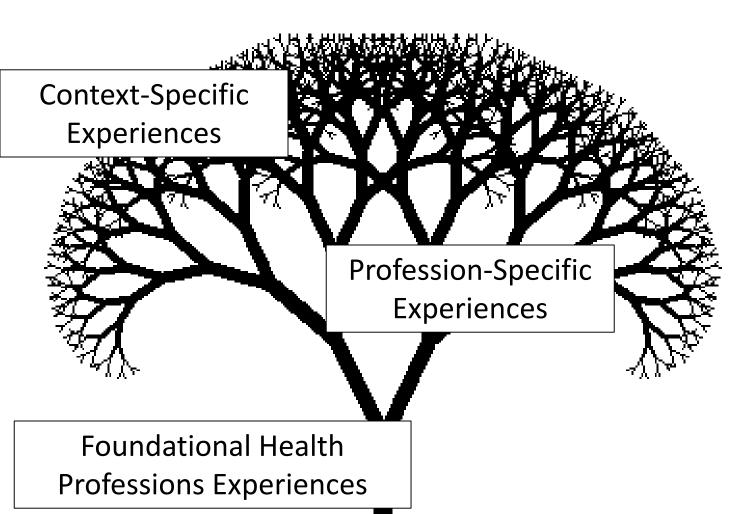
	1	2	3	4	5	6	7
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	0.55	0.52	_				
4. Individual Message Board Posts/Replies	0.39*	0.50*	0.28*	_			
5. Individual Message							
Board Views	0.35*	0.46*	0.25*	0.80*	_		
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Context-Specific Experiences

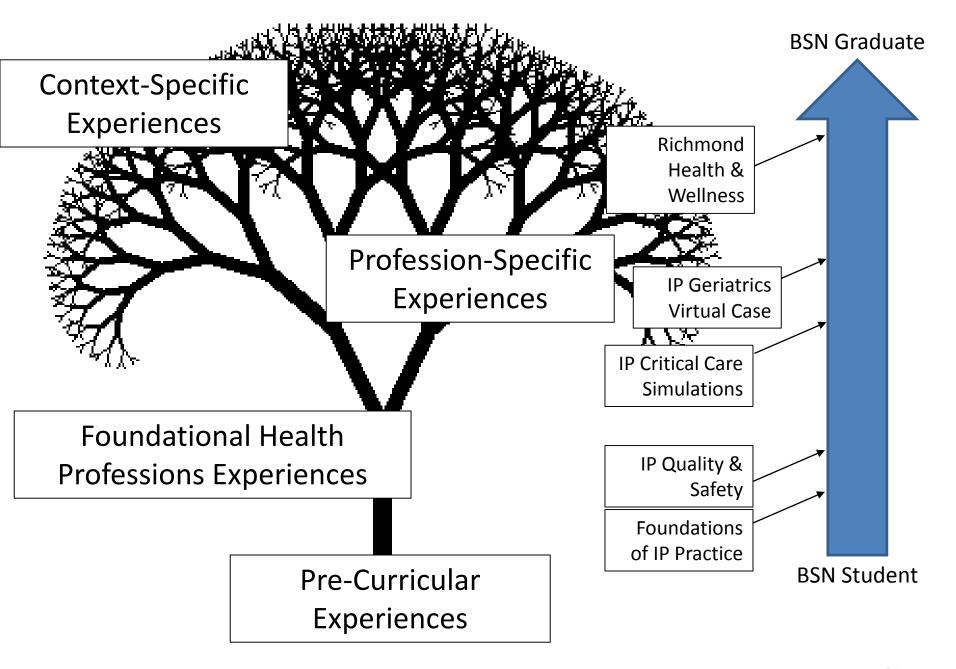
Richmond Health and Wellness Program

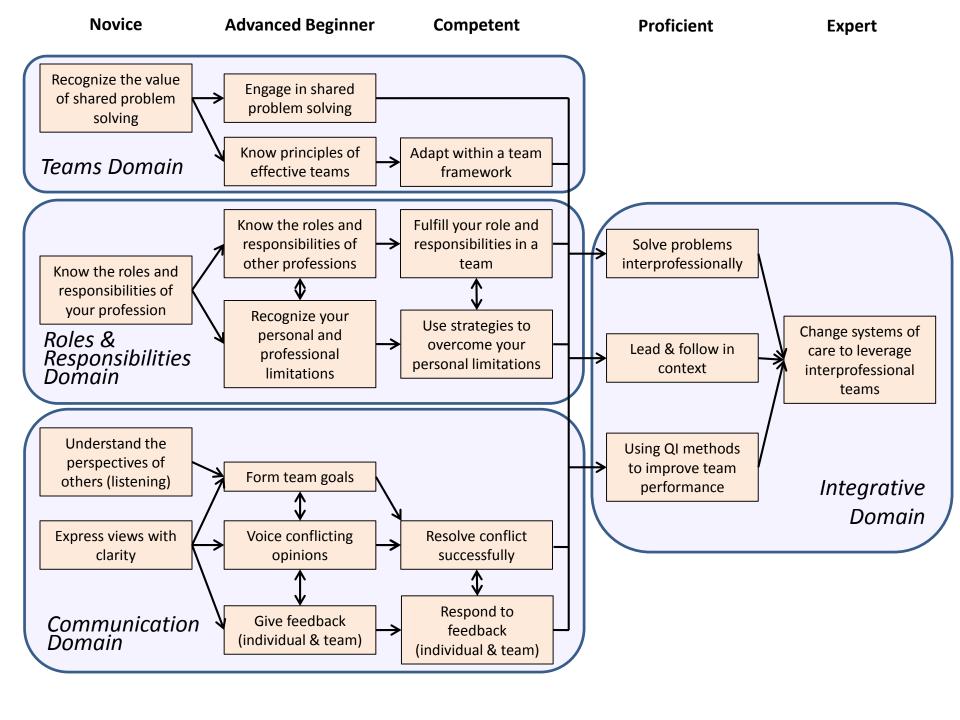
- Community-focused care coordination in an indigent setting
- "Hotspotting
- Nursing, Pharmacy,
 Social Work,
 Medicine,
 Psychology
- HRSA-funded
- Patient and student impact

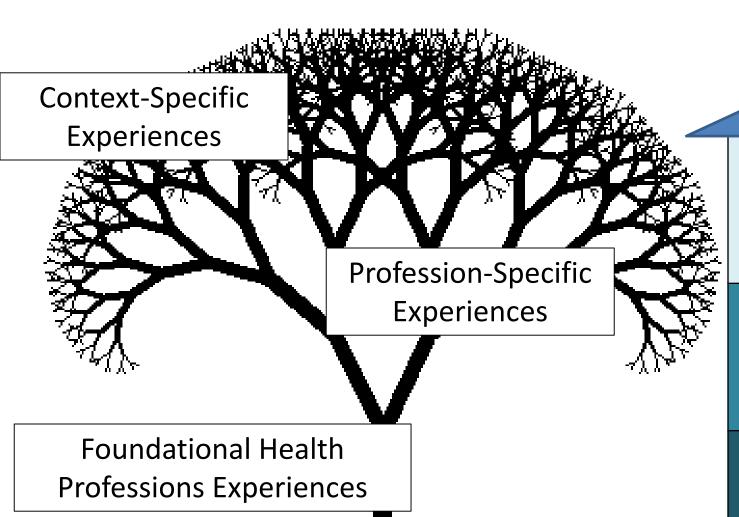




Pre-Curricular Experiences







Engage in Shared Problem Solving

Experience
Interprofessional
Problem Solving

Be Exposed to Interprofessional Problem Solving

Pre-Curricular Experiences

Key points

- Large scale interprofessional education is possible
 you can do it!
- Building incrementally is essential
- Consider multiple different instructional approaches
- Plan with a developmental approach

We are all trying to navigate the same tricky path

