

Stephanie Schuler, BS; David Bowyer, RPH; Gretchen Lovett, PHD; Amy Holbrook, MS; April Williams, BA

Objectives

Provide teams of medical, pharmacy, and nursing students a safe simulated clinical environment to:

- . Gain an understanding of the value of Interprofessional education.
- 2. More fully understand Interprofessional teamwork.
- 3. Recognize the roles/responsibilities, value and expertise of other health professions
- 4. Listen actively and encourage ideas and opinions of other team members.
- 5. Respond respectfully, as a team member, to feedback from others and/or provide instructive feedback to others about their performance on the team.

Background

Interprofessional education (IPE), where members of different professions learn with, from and about each other is being integrated in many health profession colleges; however, it can be challenging to demonstrate that this often traditional classroom based education translates to measurable outcomes in a clinical setting. Utilizing simulation based education to create a safe learning and practice environment in a clinical setting is one method that bridges the gap between classroom curriculum and the clinical setting.

West Virginia School of Osteopathic Medicine (WVSOM) is a free standing Osteopathic Medical School located in Lewisburg, WV and the University of Charleston (UC) is a small liberal arts university located in Charleston, WV. WVSOM and the UC School of Pharmacy have partnered since 2012, adding in the UC BSN Nursing program in 2014 and the UC PA program in 2015. This has inherently created an atmosphere of comradery among our institutions as we work together to provide interprofessional education experiences that we would be unable to accomplish separately.

We encountered common obstacles such as coordinating scheduling across 2 to 4 programs, integrating new curriculum into several existing curricula, lack of IPE and medical simulation knowledge and experience amongst faculty. Additional obstacles including differing curricular schedules, distance that faculty, staff and students have to travel (generally a 2 hour drive one way for meetings and in-person Inter-professional events), negotiating affiliation agreements between colleges and determining an equitable formula for shared and real cost that each program is responsible for further complicated our efforts.

The pilot program in March of 2012 was voluntary for both pharmacy and medical students and involved nine students from each profession. The program expanded in November of that year to include 44 third year medical students and 32 fourth year pharmacy students. In both of these programs the students participated in two standardized patient cases. In November 2014 the participants included 26 medical students, 35 pharmacy students and 29 nursing students who participated in a full day of interprofessional activities.

Methods

For each IPE medical simulation event 3 to 5 exploratory planning meetings take place, one of which is a face to face meeting. At these meetings, discussion and eventual consensus amongst all programs regarding; global objectives, profession specific objectives, topics of cases, content of cases, case development, pre and post evaluation tool content, faculty/staff assignments, faculty development needs and a detailed logistical map of the overall IPE program is completed. An in person dry run is conducted for any new cases or substantial case content changes from the previous year.

Prior to each event all student participants receive: an electronic pre-evaluation questionnaire containing questions regarding general objectives and profession specific objectives where appropriate and pre-case work as determined by faculty. On the day of the event students who self-identify as having not completed the pre-evaluation questionnaire complete it at this time. Following each event students complete a post-event questionnaire and a debrief is held with participating staff and faculty.

Students participate in all activities in pre-assigned interprofessional groups. Each interprofessional group participates in an icebreaker activity that explores the education and roles and responsibilities of participating professions. While in their interprofessional groups an introduction of: global and profession specific objectives, medical simulation and the fictional contract, medical simulation as a safe environment, communication styles and models and a detailed agenda review take place.

Students participate within their interprofessional groups in experiential learning including;



Center stage medical simulation activities utilizing a mannequin simulator and/or a standardized patient, audience response system, faculty facilitators from each profession, basic science faculty and use of the Electronic Health Record is available on I-Pads as requested.



Structured Standardized Patient encounters that begin with the nursing student conducting an assessment on the patient and presenting their findings to the rest of the team in a SBAR format. The students have a set amount of time to treat the patient as they see fit, discuss as an interprofessional team an assessment, return to the exam room and explain the status/diagnosis, elicit patient concerns and/or questions and reach an agreement on the plan for the patient. After the encounter students participate in small and/or large debriefs led by faculty from each profession.

Lessons Learned from a Three Year Competency Based Medical Simulation Interprofessional Experience



Mannequin Simulation encounters are conducted in small groups with designated doers and watchers. The watchers have a check off list of critical factors they are to identify during the encounter. Students have opportunities to be both doers and watchers.

Results

		Y	ear 1 (1s [.]	t Event)	
Participants	•9 •9	Pharmacy Stu Medical Stude	idents ents		
Content	2 St ont	andardized Pa o an existing I	atient Cases w Medical Stude	vith group do nt Educatio	ebri n Da
Goals and Objectives	Allo whi	wed the case ch were then	s developed to linked back to	o drive the o competend	obje cies
Agendas		Interprofessional Day WVSOM and UC March 22, 2012 10:00 a.m. – 2:30 p.m. Attendees: WVSOM Year 3&4 Medica UC Year 3&4 Pharmacy St 10:00am 10:30am-10:45am 10:45am – 11:15am 11:15am – 11:40pm 11:40pm - 12:15pm 12:15pm –1:00pm 1:00pm – 1:30 pm 1:30pm – 2:30pm Additional Instructions Professional attire please Medical students please bring Pharmacy students please bring It is professional attire please bring It is pl	I Students tudents Welcome to WVSOM Orientation Case One Video Review Group Debrief Lunch Simulation Case Debrief and Wrap Up	A CEC Faculty and Staff CEC Faculty and Staff Stephanie Schuler Andrea Nazar D.O. David Bowyer Andrea Nazar D.O. David Bowyer Andrea Nazar D.O. David Bowyer	Clinica Center CEC R Exam Interv CEC R Sim-R CEC R
Pre-Event Survey	Thr abo	ee general qu out the day an	estions relatir d interprofess	ng to studen ional learni	t's f ng i
Post-Event Survey	Five abo	e general ques out the day.	stions relating	to student's	s fee

Lessons Learned from Year 1

- Students felt...
- patients.' "...fostered active learning"
- We needed more informal but guided ice breaker activities to allow the groups of
- students to begin communication
- We needed more structure or specific instruction to the disciplines on their role in the encounter
- if pharmacy students also presented (eventually we took these out)
- Pharmacy faculty should have a more active role in the simulations
- More specific roles should be outlined for the pharmacy students
- pharmacy students



Reflective practice via debriefing and observation Students were provided time within their learning activities to participate in structured observation activities and facilitated debriefing exercises. These reflective activities provided students opportunities to learn from one another at a deeper level in a controlled, safe environment.

		Year 3 (6th Event)
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ectives -	Chose compet assess chosen	encies first - then developed cases to best competencies.
ENDA	University of Ch November 21, 2014 9:45 AM 10:15 AM	AGENDA STUDENT arleston/WVSOM Interprofessional Day Check In Welcome
al Evaluation r	10:45 AM	Goals of Today's Program Let's Get Acquainted – Roles and Responsibilities SP Case Two Groups
200m 192	11:45 AM	Two Panels
Rooms 1-10	12:15 PM	Explanation and student placement for next activity
iew Rooms 1-5	12:30 PM	Round 1
200m 192		Group One Mannequin Simulation Group Two SP Simulation
200m 192	2:15 PM	Switch
ooms 1-5	2:30 PM	Round 2
200m 192		Group Two Mannequin Simulation
	4:15 PM	Wrap up and Evaluation

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elings

Goal specific questions linked to chosen competencies. Profession specific questions linked to specific objectives.

Goal specific questions linked to chosen competencies. Profession specific questions linked to specific objectives.

• "It advocated good teamwork and gave us an opportunity to work together to figure out what was going on with our

• "Maybe the DO students should be more aware of what a PharmD Student is capable, which is medication expertise."

• Case conferences would be more beneficial if they had some application for pharmacy or • We knew how to structure cases for med students but needed to tweak the instruction for

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performance on the team

Lessons Learned from Year 3

see the other roles of the professions and collaborating as peers rather than the hierarchy it is

e for me and I learned a lot" material ahead of time.'

smaller to allow for more hands on participation for each participant eneficial for all participants so that they feel more prepared for the

Post-Event Survey November 2014



Going Forward . . .

professions: Nurse Practitioner and Physician Assistant Students and

or the mannequin simulation cases by doubling the number of stations. tional college (West Virginia Wesleyan College) to increase the even out the proportions of groups.

2012, our interprofessional events have grown in both number and scope. Each Fall and Spring and Pharmacy, Nursing and Physician Assistant students from UC participate in a medical poration and development of programs, we have expanded and refined cases, techniques and e learners from different professions and backgrounds into a cohesive program that allows them e value of interprofessional education.

s provided a bridge between classroom and clinical learning and that bridge holds true for ts report that interprofessional simulation opportunities assist them in more fully understanding cognizing the roles/responsibilities, value and expertise of other health professionals. They also pportunity to listen actively and encourage ideas and opinions of other team members and mber to feedback from others.

ation among predetermined learner groups via ice breaker activities adds to the cohesiveness of ntentionally structuring the flow of the day to include specific instruction as building blocks allows For example, medical and pharmacy students are introduced to the SBAR concept in morning into subsequent simulation exercises.

zed to fit the needs of the professions involved in the IPE. This allows maximum participation and maximize the learner experience, multiple simulation modalities are utilized including participant, task trainers, high fidelity simulators and any combination of these.

an interprofessional curriculum provides students an opportunity to work with other members of vironment. Students report that the opportunity is a positive learning experience regardless of this experience. Working with other members of the healthcare team in a safe clinical s a team as they collectively make clinical decisions, practice their skills and gain a deeper oonsibilities of each member of the healthcare team.

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