

Simulated iOSCE with Physician Assistant and Pharmacy Students

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Purpose:

- Interprofessional education (IPE) prepares students for interprofessional practice (IPP) by supporting interdisciplinary collaboration.
- This study measured knowledge of and attitudes regarding IPP among physician assistant and pharmacy students before and after an IPE experience.

Methods:

- A team of faculty experts (2 Pharm.D, 3 PA, and 1 DO) designed an interprofessional objective structured clinical examination (iOSCE) case and rubric with five key patient safety and quality of care interventions.
- The Readiness for Interprofessional Learning Scale (RIPLS) questionnaire, utilizing a 5-point Likert scale, was administered pre-iOSCE.
- Students individually reviewed the admitting orders in the patient case to identify whether any safety or efficacy interventions should be made to optimize patient care and submitted their individual written interventions.
- Students then collaborated as an interprofessional team consisting of one PA student and one to two Pharm.D students.
- Following team collaboration, students verbally presented their final interventions to an interprofessional faculty panel.
- The RIPLS questionnaire was again administered post-iOSCE.





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IPP Knowledge & Attitudes Among Physician Assistant and Pharmacy Students Before & After an IPE Experience

> Statement about Interprofession Practice and Training

Benefits of IPP Training

Q1 Learning with other students will help me more effective member of a health care team

Q2 Patients would ultimately benefit if health worked together to solve patient problems

Q3 Shared learning with other health care stu increase my ability to understand clinical prob

Q6 Shared learning will help me to think posi⁻ other professionals

Q9 Shared learning will help me to understand limitations

Q13 Shared learning with other health care st help me to communicate better with patients professionals

Q15 Shared learning will help to clarify the na problems

Q16 Shared learning before qualification will become a better team worker

Development of IPP Relationships

Q4 Learning with health care students before would improve relationships after qualificatio Q8 Team working skills are essential for all he students to learn

Interprofessional Learning Environment

Q5 Communication skills should be learned w health care students

Q7 For small group learning to work, student and respect one another

Q10 I don't want to waste my time learning w health care students

Q11 It is not necessary for undergraduate heat students to learn together

Q12 Clinical problem solving skills can only be students from my own department

Q14 I would welcome the opportunity to worl group projects with other health care student

Q19 I have to acquire much more knowledge other health care students

N=112 (58 PA; 54 PharmD); Scale: 1=Strongly disagree, 2= Disagree, 3=Neutral, 4=Agree, 5=Strongly Agree; IPP=Interprofessional Practice; IQR=Inter-Quartile Range; *p < 0.001; **p < 0.05





onal	Median (IQR) ^a		<i>p</i> -value
	Pre	Post	Wilcoxon
become a			
)	4 (1)	5 (1)	0.002**
n care students	5 (1)	5 (0)	<0.001*
udents will blems	4 (1)	5 (1)	<0.001*
tively about	4 (2)	5 (1)	<0.001*
id my own	4 (1)	5 (1)	<0.001*
tudents will s and other	4 (1)	5 (1)	<0.001*
ature of patient	4 (1)	4 (1)	<0.001*
help me	4 (1)	4.5 (1)	<0.001*
e qualification on	4 (1)	5 (1)	0.009**
ealth care	5 (1)	5 (1)	0.002**
t			
vith other	4 (1)	5 (1)	<0.001*
s need to trust	5 (1)	5 (1)	0.014**
vith other	2 (2)	2 (1)	<0.001*
alth care	2 (2)	2 (2)	0.149
e learned with	2 (1)	1 (1)	0.028**
rk on small ts	4 (1)	4 (1)	<0.001*
and skills than	3 (1)	3 (1)	0.967



Results:

- among scores.

Conclusions:

- roles.
- benefit patient care.

References: Health. 2015;44(2):73-82. Educ. 2007;41(9):892-896. (RIPLS). Med Educ. 1999;33(2):95-100. Health. 2016;45(2):147-151



Although the students had a positive attitude towards IPP prior to the IPE experience, the results overall showed a statistically significant improvement in attitudes following the iOSCE.

The statements displayed in the table are grouped based on key words related to the benefits of IPP training, development of IPP relationships, and interprofessional learning environment.

Following the iOSCE, the strongest degree of consensus among the group (IQR = 0) was the perception that patients would ultimately benefit if health care students worked together (Q2).

IQR is a measure of variability; an IQR of '1' indicates near consensus

• The RIPLS data revealed positive perception changes regarding the benefits of IPP training and the development of IPP relationships.

Although, the significance of individual items related to the interprofessional learning environment was more varied, the clustered nature and similarity of the results overall is supportive.

Students can learn from, with, and about each other's professional

Further, students perceived that engaging in IPE would ultimately

Activities or efforts to promote IPE may be beneficial even for students with established knowledge and positive attitudes toward IPP. • This study design can be applied across all disciplines to promote IPE.

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