

Collaborative Use of a Mock Trial as a Learning and **Assessment Activity in Two Pharmacy Programs**

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BACKGROUND

- ☐ Outside of law programs, few reports appear in the literature on the utility of mock trials as a teaching-learning tool. 1-9
- ☐ The described mock trial project is a previously tested model for teachinglearning and assessment of student debate on controversial issues in health care. 10-12
- ☐ The deliberate design of this specific activity reinforces cognitive skills, while affording opportunities for developing and measuring affective domain competencies. 10-12
- ☐ The mock trial project was originally developed at West Coast University School of Pharmacy (WCU) in 2015 and repeated in 2016. 10-12
- ☐ The mock trial project exposes students to self-directed learning and research, opportunities to apply evidence-based decision making; and immerses students in civic processes, argument and advocacy, courtroom decorum.
- ☐ Essential elements of the mock trial project include students' selfawareness, leadership, and collaboration within a group learning environment. 10-12
- ☐ In 2017, an educational research collaboration between WCU and University of Maryland Eastern Shore (UMES) School of Pharmacy and Health Professions allowed its implementation in both institutions in two parallel tracks, data from which is reported here.

OBJECTIVE

☐ To evaluate implementation of a mock-trial used as a learning and assessment activity in a first-professional year (P1) required course at two pharmacy programs (WCU & UMES).

METHODS

- ☐ After two iterations in a P1 course at one institution (WCU: 2015, 2016), a semester-long mock-trial project was expanded to incorporate another institution (WCU and UMES: 2017). 13-15
- ☐ Faculty from both institutions collaborated on topic selection, standardization of procedures, and assessment tools.
- ☐ Each cohort of students (at WCU and UMES) was divided into teams that researched, prepared, and debated the evidence-based merits "for" and "against" two distinct controversial topics in courtroom format in each of two trials:

Primary Care Shortage Trial:

- ☐ Petitioner: Pharmacists are best equipped to address the primary care shortage
- ☐ Respondent: Other health professionals are best equipped to address the primary care shortage.

Manufacturer Discount Coupon Trial:

- Manufacturer discount coupon programs should be
- ☐ Respondent: Manufacturer discount coupon programs should be eliminated.

METHODS (continued)

- ☐ A panel of 6 faculty-judges assessed students' trial performance in each trial based on eight criteria (Figure 1).
- ☐ A panel of 10-12 student-jurors evaluated classmates in the alternate trial using the identical eight criteria; the number of jurors served in the trial varied slightly in each institution due to difference in class size.
- ☐ Students also evaluated each of their teammates' engagement in the project throughout the semester (peer evaluation) using a different checklist of seven criteria (Figure 2).
- ☐ Descriptive analyses were conducted for faculty-judge scores, studentjuror scores, student-peer evaluations for each of two mock trials at both programs. Independent T-Tests were performed to compare faculty-judge scores and student-juror scores.
- ☐ Students from one program also completed a survey evaluating the overall mock trial experience.
- ☐ An Institutional Review Board approval was obtained.

ASSESSMENT TOOLS

Figure 1. Faculty-Judges/ Student	<u>'</u>
Jurors Evaluation Checklist	

Evidence	Strong Evidence (3.0 points)	Good Evidence (2.5 points)	Some Evidence (1.5 points)	No Evidence (0 point)	Po
Learner [Domain 1] Demonstrate Foundational Knowledge / Content					/3
Evidence-Base [Domain 1] Provide Citation(s)/Reference(s) (applicable literature and/or law)					/3
Apply/Integrate/Critique [Domain 1] Apply/Interpret/Compare/Contrast (applicable literature and/or law)					/3
Educate Audience [Domain 3] Visual Aid(s): [poster, diagrams, charts from literature, expert, or created by group]					/3
Communicate/Advocate [Domain 3] (Delivery: Style , Volume, Clarity, Articulate, Pace, Tone, Eye Contact)					/3
Communicate/ Listening [Domain 3] Active Listening and Response					/3
Problem-Solving / Critical Thinking [Domain 3] Overall Decision-Making					/3
Leader/Self-aware/Teamwork [Domain 4] (Optimize human, financial, time, and physical resources)					/3
Professionalism [Domain 4]					/3
Overall Performance [Domain 4]					K
Total Points					/3

Figure 2. Student Peer Evaluation Checklist

	Competent	Partially Competent	Not Competent	Unsatisfactory	Points
	(3 points)	(2.5 points)	(1.5 point)	(0.5 points)	
	Contributed regularly to	Contributed inconsistently	Contributed little to	Did not contribute to	
2	decision making/strategy	to decision making/strategy	decision making/strategy of	decision making/strategy of	
Solving	of group	of group	group	group	
ŏ	Able to identify problems; Comments:	explore and prioritize potent	ial strategies; design, imp	lement, evaluate viable s	solution.
4	Active listener	Descending listening skills	Minimal listoning skills	IDaar listaning akilla	1
	(demonstrates strong	Reasonable listening skills (demonstrates moderate	Minimal listening skills (demonstrates minimal	Poor listening skills (demonstrates no	
	awareness of verbal and	awareness of verbal and	awareness of verbal	awareness of verbal	
	non-verbal cues). Is	non-verbal cues). Exhibits	and non-verbal cues).	and non-verbal cues).	
	completely non-	minimal judgment. Offers	Expresses substantial	Always judge mental	
	judgmental. Very	some unsolicited opinions	judgment. Often	and opinionated.	
	receptive to	and does not appear very	opinionated and not		
	thoughts/opinions of	receptive to	receptive to		
	fellow team members.	thoughts/opinions of other	thoughts/opinions of		
		team members.	other team members.		
	Marine Co. 14. April 1990; N. Alexandro Co. 1	ig (verbally/nonverbally) where listening, interviewing, and		als, groups, and organiza	itions;
	Comments:	e listering, interviewing, and	interpersonal skills.		
		Io	lar u u r	b :	
	Articulates thoughts very	Clarity and logic of thought processes communicated	Clarity and logic of thought processes	Lacks clarity and logic of thought processes	
2	clearly, logically and succinctly; exhibits a	is reasonable; some	communicated is	communicated; very	
3	solid command of the	difficulty understanding	minimal; significant	difficult to understand	
anyocate	language		difficulty understanding		
	Able to educate all audier	nces, uses effective ways to	elay information, and to r	epresent group's position	1.
i	Comments:				
	Interacted regularly with	Interacted with the group	Interacted on a limited	The student did not	
	the group. Respected	but inconsistently.	basis with the group.	interact with the	
	and encouraged views of		The student was not	group. The student	
	others Despended				
	others. Responded	others. Responded	receptive to others	did not respect the	
	others. Responded positively to others' comments.	neutrally to comments of others.	comments.	views of others.	
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- ☐ Course faculty developed grading checklists to be used for evaluating students' trial performance. (Figures 1 and 2) Grading criteria included:
 - ✓ Content/Knowledge
 - ✓ Critical Thinking
 - ✓ Application/Discussion Of Federal/State Law
 - √ Citations/References
 - ✓ Use Of Visual Aids
 - ✓ Delivery/Style
 - ✓ Active Listening
- ☐ A separate peer evaluation checklist was used for students to evaluate their respective teammates.

RESULTS

Primary Care Shortage Trial

Table 1. Summary of Scores from Four Mock Trials

Institution 1 (n=28)						
Judges Average		Jurors Average		Difference between Judges and Jurors Average Scores		
Mean (SD)	27.46 (0.47)	Mean (SD)	28.75 (1.27)	p < 0.01		
Median	27.46	Median	28.75			
Minimum	27.00	Minimum	27.50			
Maximum	27.92	Maximum	30.00			
		Institutio	on 2 (n=30)			
Judges Average		Jurors Average		Difference between Judges and Jurors Average Scores		
Mean (SD)	26.79 (0.55)	Mean (SD)	27.70 (0.46)	p < 0.01		
Median	26.79	Median	27.70			
Minimum	26.25	Minimum	27.25			
Maximum 27.33		Maximum	28 15			

Manufacturer Discount Coupon Trial								
	Institution 1 (n=29)							
Judges Average	ge	Jurors Averag	е	Difference between Judges and Jurors Average Scores				
Mean (SD)	27.00 (0.00)	Mean (SD)	28.71 (1.27)	p < 0.01				
Median	27.00	Median	27.50					
Minimum	27.00	Minimum	27.50					
Maximum	27.00	Maximum	30.00					
Institution 2 (n=30)								

		mstitutio	11 2 (11–30)	
Judges Average		Jurors Average		Difference between Judges and Jurors Average Scores
Mean (SD)	27.63 (0.97)	Mean (SD)	27.33 (1.32)	p > 0.05
Median	27.63	Median	27.37	
Minimum	26.67	Minimum	26.02	
Maximum	28.58	Maximum	28.64	

Table 2. Student Evaluation of Peer Engagement in Mock Trial Project

	Primary Care Shortage Trial		Manufacturer Discount Coupon Tri		
	Institution 1	Institution 2	Institution 1	Institution 2	
Mean (SD)	56.60 (4.96)	58.86 (4.13)	58.37 (3.31)	55.36 (6.65)	
Median	58.59	60.00	60.00	59.17	
Minimum	42.08	37.50	44.00	37.50	
Maximum	60.00	60.00	60.00	60.00	

Primary Care | Manufacturer

Table 3. Student Evaluation of Mock Trials Experience (Institution 1)

	Total	Shortage	Discount Coupon
	% agree/ strongly agree	% agree/ strongly agree	% agree/ strongly agree
1. The mock trial project provided a valuable learning experience.	86.0	78.5	93.1
Knowledge and skills learned in the course were used in preparing for the mock trial.	78.5	75.0	82.1
3. Participation in the mock trial challenged and further developed team members' communication skills.	87.7	78.6	93.6
4. Participation in the mock trial assessed student's ability to demonstrate professional attitude and behavior.	89.5	78.6	100
5. Participation in the mock trial provided opportunity to demonstrate responsibility and accountability to achieve team goals.	89.3	78.6	100
6. I recommend continuing with the mock trial project in the future.	82.2	75.0	89.3

DISCUSSION

- ☐ Results suggest that the mock trial project previously implemented in an Evidence-Based Practice course at Institution 1 was successfully replicated in a Public Health for Pharmacists course at Institution 2.
- ☐ Results reveal the difference between judges' and jurors' average scores was statistically significant in 3 out of the 4 mock trials. (Table 1)
- ☐ Both faculty-judges and student-jurors scores in the mock trials at Institution 1 were similar to those at Institution 2. Overall, students at both institutions met expected competencies. (Table 1)
- ☐ Student evaluations of peer engagement were also similar among the four different mock trials across two institutions. (Table 2)
- ☐ The overall mock trial experience was perceived positively by students at Institution 1. Interestingly, students who participated in the Manufacturer Discount Coupon Trial evaluated the mock trial experience more favorably than those participated in the Primary Care Shortage Trial. (Table 3)

CONCLUSION

☐ This study provides preliminary evidence to support that the mock trial as a learning and assessment strategy can be generalized to other programs and courses.



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