

Background

- Communication is recognized as a core competency for pharmacists globally.
- Objective Structured Clinical Examinations (OSCEs) are a commonly used assessment method in pharmacy education that require student pharmacists to interact with a standardized participant (SP) to assess both clinical and communication skills.
- At Western University of Health Sciences College of Pharmacy, student pharmacists are assessed on communication skills across a variety of scenarios and settings during their OSCEs.
- Communication scores are assigned using a validated rubric consisting of six domains (Table 1), with each domain being assigned a score of 0-3, for a maximum total score of 18. Depending on the station type, a communication grade is assigned by a SP, a faculty member, or both.
- After collecting over a decade of OSCE communication grade data, OSCE facilitators wanted to determine if there were differences in student communication performance across the variety of different OSCE case types.

Objective

To examine patterns in student pharmacist communication performance on multi-station OSCEs based on grader type, practice setting, and station type.

Methods

- This study was a retrospective cohort review.
- In-person OSCE communication scores from second- and third-year pharmacy students were compiled for graduating classes of 2013-2021.
- Student scores were excluded if they withdrew, were dismissed from the program, or did not progress in the curriculum on schedule for any reason.
- Scores by grader type were analyzed by rubric domain using a t-test and by setting and station type using one-way ANOVA.

Table 1: Descriptions of the Six Global Communication Rubric Domains

Domain	1	2	3	4	5	6
Skill tested	Verbal Expression: Mechanics	Verbal Expression: Content	Non-Verbal Expression	Interaction with patient/ provider	Organization and Logic	Professional appearance and Rapport
Skill criteria	Grammar Pronunciation Filler words Rate Volume	Vocabulary Jargon Open- ended questions	Eye contact Distracting gestures Awkward pauses	Active listening Empathy Respect Confidence	Flow of encounter Control of session	Introduction Attire Teach back Closure

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Each Global Communication (GC) domain score out of max score of 3 Abbreviations: GC 1 - 6 - Global Communication Domains 1 - 6

A Decade of Objective Structured Clinical Exam (OSCE) **Communication Scoring Trends In Pharmacy Students** Julie Darnell, PharmD, BCACP, AAHIVP, Anthony Sengul, PharmD, APh,

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(SP) Global Communication (GC) Scores

	SP	Faculty	P-value
verall	14.82	14.73	P<0.001
	Setting		
ommunity	14.89	14.55	P<0.001
mbulatory Care	14.79	14.71	
patient	14.50	15.14	
rug Information enter	N/A	14.93	
	Station Type	2	
rug device ounseling	14.87	14.57	P<0.001
inical Icounter	14.77	14.96	
D Call	N/A	15.11	
idence-based actice	N/A	14.93	
bal Communication (GC	c) Score out of max sco	re of 18	



■ Faculty ■ SP

Anne J. Kugler, PharmD, BCACP



	Discussion				
•	The mean global communication score was >80%, demonstrating				
	satisfactory competence in communication.				
•	Communication scores differed between faculty and SPs (Table 2)				
	 Invite the due to variability in training on the GC rubric or inter- grader variation 				
	 Although statistically significant, the magnitude of this difference would not alter a student's letter grade and larger differences in communication scores were observed based on station type and setting. 				
•	Communication scores were lowest in the community setting and in providing drug/device counseling (Figures 1,2).				
	 Possibly due to: 1) limited experience of student pharmacists within this setting 				
	 2) lack of confidence or familiarity in drug/device counseling 3) a potential loss of skills without reinforcement, as OTC/self-care is taught in year 1 of our curriculum with a shift to clinical focus in years 2 and 3 				
•	Higher communication scores were achieved in the inpatient setting and with provider phone call interactions (Figures 1,2).				
	universally across all settings. Some items may not apply to				
	specific settings or scenarios, thus artificially inflating GC scores				
•	Communication scores also varied across the six domains of the				
	 GC rubric between faculty and SPs (Figure 3). Variability in scoring may be due to: inter-grader variation 				
	higher expectations among faculty in specific domains, and				
	direct vs. indirect observation of students during testing.				
	Conclusion				
•	Examination of 10 years of OSCE communication score data showed significant differences in both overall score and scoring				
	per domain between faculty graders and SPs.				
	providing drug/device counseling showed the lowest mean				
	communication scores, indicating that they may require				
	additional practice opportunities of this common skill-set and				
•	Inpatient phone call stations resulted in the highest				
	communication scores, which may require a re-examination of				
	the rubric in order confirm its ability to assess communication in this unique format.				
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