

# Evaluating the effectiveness of pharmacy practice residents in preceptorship and academia through a postgraduate year 1 (PGY1) teaching certificate program

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## BACKGROUND

- The Philadelphia College of Osteopathic Medicine (PCOM) School of Pharmacy launched its first Postgraduate Year 1 (PGY1) pharmacy residency program in 2015, incorporating a teaching and learning curriculum (TLC).
- This program provides residents with the necessary training needed to develop their teaching skills by requiring the residents to attend teaching and learning seminars, participate in various teaching experiences (Pharmacy Practice Lab, Case Studies, small/large group teaching), serve as a co-preceptor to Advanced Pharmacy Practice Experience (APPE) students, and complete an online Pharmacy Preceptor Training Program.

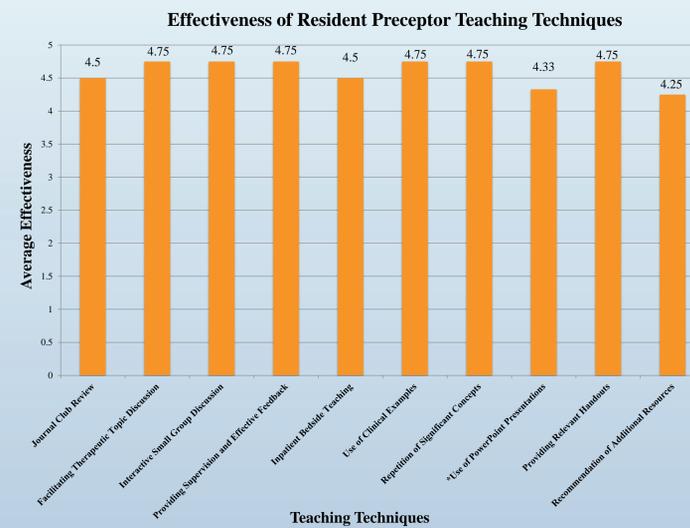
## OBJECTIVE

- The objective of this study is to evaluate the outcomes of the PCOM PGY1 TLC program.

## METHODS

- An IRB approved survey was sent out to four fourth year PCOM APPE students to evaluate the residents' preceptor skills during their required Internal Medicine II block where residents served as co-preceptors to these students.
- Didactic course evaluations were used to assess the residents' teaching skills in the classroom setting.
- 91 students completed a Dietary Supplements course evaluation for a didactic lecture presented by one resident and 22 students completed a Critical Care course evaluation for an elective lecture presented by the second resident.
- The average results from the survey and course evaluations were used to determine the effectiveness of the PCOM TLC program.

## RESULTS



**Figure 1** This graph represents the average effectiveness for various teaching techniques used by resident preceptors in the PCOM School of Pharmacy PGY1 program. The data was collected using student responses from a questionnaire that was completed by fourth year PCOM APPE (Advanced Pharmacy Practice Experience) pharmacy students to rate the teaching techniques of their Resident preceptors using an effectiveness scale from 0 (Not Effective) to 5 (Very Effective) or N/A for each of these techniques.



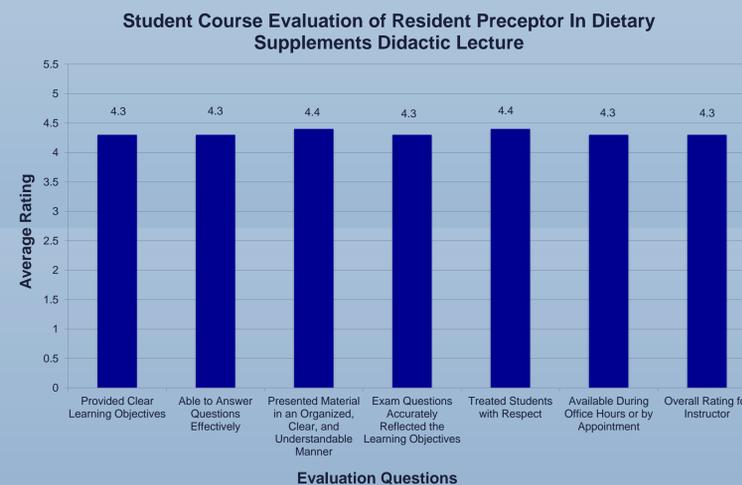
**Figure 2** This graph represents the average level of agreement for various qualities of resident preceptors in the PCOM School of Pharmacy PGY1 program. The data was collected using student responses from a questionnaire that was completed by fourth year PCOM APPE (Advanced Pharmacy Practice Experience) pharmacy students to rate various qualities of their resident preceptors using an agreement scale from 1 (Strongly Disagree) to 5 (Strongly Agree) for each of these qualities.

## RESULTS

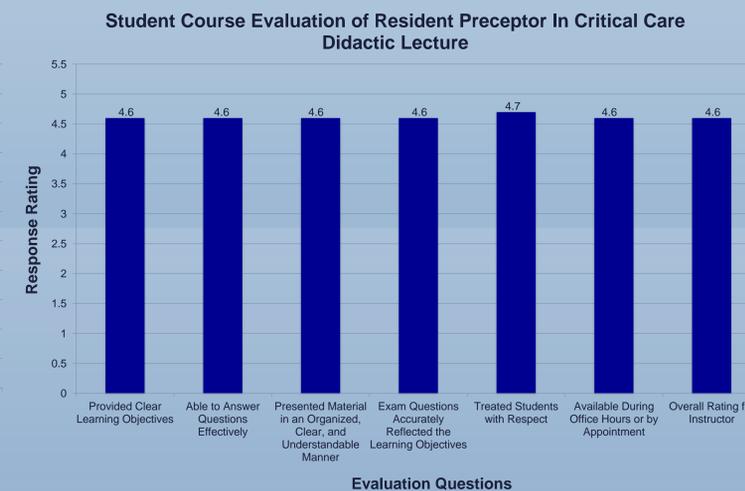
- After evaluating the residents' preceptor skills, it was found that the residents received an average student rating of greater than 4.25 out of 5 for each teaching technique shown in Figure 1.
- Residents also received an average student rating of greater than 4.75 out of 5 for the various qualities of preceptorship as shown in Figure 2.
- Evaluation of the residents' didactic lecture skills resulted with one resident receiving an average rating of greater than 4.3 out of 5 and the other resident receiving an average rating of greater than 4.6 out of 5 for each evaluation question shown in Figures 3 and 4, respectively.

## CONCLUSION

- PCOM School of Pharmacy provides an opportunity for PGY1 residents to participate in various teaching experiences, both at the School of Pharmacy and in the hospital setting.
- Upon successful completion of this program, each resident will be awarded a teaching certificate at the end of the residency year.
- PCOM's School of Pharmacy PGY1 program provides adequate training in teaching experiences that has effectively developed the skills of the residents in academia and preceptorship.



**Figure 3:** This graph represents the average rating of Resident 1 on various aspects of their didactic lecture in the Dietary Supplements course. The resident was evaluated by fourth year pharmacy students who attended the lecture using these specific questions from a course evaluation survey that was taken at the end of the term. The students rated the resident using an agreement scale of 1 (Strongly Disagree) to 5 (Strongly Agree).



**Figure 4:** This graph represents the average rating of Resident 2 on various aspects of their didactic lecture in the Critical Care course elective. The resident was evaluated by fourth year pharmacy students who attended the lecture using these specific questions from a course evaluation survey that was taken at the end of the term. The students rated the resident on these specific questions using an agreement scale of 1 (Strongly Disagree) to 5 (Strongly Agree).