

Virtual 2020



INTRODUCTION

Core EPAs for New Pharmacy Graduates were developed by the American Association of Colleges of Pharmacy (AACP) to promote practice-ready graduates.¹

The University of Colorado Skaggs School of Pharmacy (CU) introduced EPAs for entry-level PharmD students (2017), and for mid-career, distance-education, post-baccalaureate PharmD (North American and International Trained; NTPD and ITPD) and MS Clinical Pharmacy (MS) students (2019). CU's EPAs include AACP Core and more robust, faculty-driven, school-specific EPAs for these mid-career students with local practice needs and perceived greater skills. EPAs are required in 6 practice domains.

We report EPA levels and trends of distance students within the first 5 semesters.

AIMS

The aims of this program evaluation are to:

- Identify and assess EPA application trends across distance-based clinical pharmacy programs;
- Assess entrustment performance by each of six EPA practice domains;
- Assess entrustment levels reported by students and preceptors;
- Identify necessary EPA curricular development changes for each distanceeducation clinical pharmacy program.

METHODS – 1, RESULTS - 1

Methods: EPAs are completed at Introductory (community or health-system) and/or Advanced Pharmacy Practice Experience (IPPE, APPE) sites or work sites.

Results: 76 total EPAs. IPPEs: 36% (n=27), with 81% (n=22) community; APPEs: 5% (n=4). Work site: 59% (n=45). 100% MS, 86% NTPD at work.

Students complete 20 EPAs*, with a minimum number required in each of six EPA levels **practice domains:** 1. Patient care provider-8; 2. Interprofessional team **Pass rate**: Confirmed=89% (n=67), Rejected=11% (n=9) member-2; 3. Population health promoter-1; 4. Information master-1; 5. **Program Scores (n), (median, IQR):** NTPD (n=28): 5 (4,5); Practice Manager-4; 6. Self-developer-4 in any other chosen domain. Students ITPD (n=28): 4 (4,4); MS (n=20): 4 (3.25, 4); p<0.001 NTPD v. MS; 0.003 choose 10 EPAs for refinement. *Excepting NTPD students, who complete only 4 EPAs NTPD v. ITPD; NSS ITPD v. MS as part of Domain 6 -Self-developer.

(1=observation only, 5=teaches others). Data are tracked through the school's

Preceptors received evaluation training live and/or via email communications. Students and preceptors rate level of entrustment. To pass, both must rate entrustment at a level 3 (action with reactive supervision), of five levels learning management system (eValue[™]).

Results are labeled as: "Confirmed" - preceptor confirmed student's entrustment level \geq 3; "Rejected" - preceptor scored student at < 3. Student may attempt same EPA again, or another EPA.

Descriptive information is reported as medians (interquartile range, IQR), and as preceptor scores, unless otherwise stated. **Domain 6 EPAs** were assigned to original domains for analysis. **Comparisons** between and among entrustment levels were conducted with the Wilcoxon rank-sum test, using median EPA levels; significance defined as p<0.05; NSS=not statistically significant.

Students (n): Total = 18; NTPD=9, ITPD=7, MS=2 **Pharmacy degree country:** Egypt, India & Philippines=4, US=3, Guyana, Ghana and Nigeria=1

ENTRUSTABLE PROFESSIONAL ACTIVITIES (EPAs) FOR DISTANCE-BASED GLOBAL DOCTOR OF PHARMACY (PHARM.D.) AND MASTER OF SCIENCE (M.S.) STUDENTS

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METHODS - 2

RESULTS - 2

Demographics



EPAs by domain

EPAs by domain choice

Dom. 6: Selfdeveloper EPAs



RESULTS - 3



CONCLUSIONS

- levels.
- development needs, noting also the influence of program requirements for each.
- possibly reflecting practice levels among US pharmacists.

- Ongoing analysis of these findings may inform future EPA

REFERENCES

Educ. 2016;80(4):Article 57.

Overall scores (median, IQR): Student=4 (4,5), Preceptor=4 (3,5); NSS

Overall (Student vs.preceptor)	
•	25% (n=19) students rated
	EPA levels lower,

52.6% (n=40) the same, and • 22.4% (n=17) higher than the preceptor.

Refined scores (mean): 4.4 (n=5); all remained unchanged from first attempt.

EPAs are a successful way to assess practice-based skills of global pharmacists in distance-based, post baccalaureate programs EPAs are successfully completed in varied practice setting types and

• Frequency of chosen domains in initial semesters, and as choice EPAs, may indicate students' perceived local practice and/or personal

High confirmation rates in Domains 1 and 2 may confirm the success of these focus areas in our curricula, and student skills and comfort. • NTPD students (US licensed practitioners) scored significantly higher,

• These students and their preceptors rate entrustment levels similarly. • Entrustment levels of refined EPAs are at independent levels and remain consistent, possibly indicating students' comfort with them.

requirements in our distance-based, post-baccalaureate programs.