Pilot Evaluation of a Preceptor Development Program for Continuing Health Professional Education Programs in Qatar the "Practice Educators' Academy"

Mukhalalati B¹*, Awaisu A¹, Elshami S¹, Javed B¹, Abu-Hijleh M², Bawadi H³, Almahasneh R⁴, Al-Khal A⁵, Al-Amri K⁵

¹ College of Pharmacy, ² College of Medicine, ³ College of Health Sciences, ⁴ College of Education, Qatar University, PO Box 2713, Doha, Qatar ⁵ Medical Education Office, Hamad Medical Corporation, PO Box 3050, Doha, Qatar

Background

- Experiential education is a fundamental component of health profession education programs (1)
- Clinical preceptors are indispensable in the experiential training of health professional students; however, the vast majority of preceptors do not possess formal training as educators (2)
- The "Practice Educators' Academy" Program is an innovative educational intervention that was informed by an empirical evidence in the form of a preceptor-focused needs assessment (3)
- The "Practice Educators' Academy" aims to develop the teaching knowledge, skills, and attitudes of multi-disciplinary healthcare professionals who serve as clinical preceptors for students at Qatar University (QU)-Health Cluster (HC) (Colleges of Pharmacy (CPH), Medicines (CMED), and Health Sciences (CHS))

Aims

Primary aim

To evaluate the program's impact on self-efficacy and knowledge of multidisciplinary preceptors who precept students across the HC at QU.



Secondary

To assess the preceptors' satisfaction with the program's comprehensiveness, appropriateness and relevance.



Methods

- The program's impact was assessed utilizing a pretest-posttest (before-after) pilot intervention study on a single group of preceptors
- Preceptor self-efficacy was assessed using a Preceptor Self-Efficacy Questionnaire (PSEQ) which is a validated 21 item, 4-point Likertscale questionnaire
- Preceptor knowledge was assessed through a 25 item multiple choice question (MCQ) test
- Preceptor satisfaction with the course was assessed through a 5point Likert-scale questionnaire with open comments

Conclusions

- The program appears to be effective educational intervention to improve preceptors educational knowledge and skills, as demonstrated through a favorable impact on preceptor self-efficacy, knowledge, and satisfaction
- The inter-disciplinary nature of this program allowed for preceptors of different professional backgrounds to share their knowledge and interact

Results

1st Primary outcome: Self-efficacy

· A significant improvement in preceptors' self-efficacy median score was demonstrated after attending the program

Table 1: Overall change in self-efficacy score of participants after

attonamg		Tractice Educators Tradacting				
	N	PSEQ median score	IQR	Z value	P value	
Pretest Posttest	30	3.33 3.57	0.93 0.89	-3.33	0.001	

- Profession: Dieticians showed higher self-efficacy score than physicians at the posttest assessment
- · Years as a preceptor: Preceptors who had more than 20 years of preceptorship experience showed higher self-efficacy score than preceptors with 1-9 years of experience at the pretest assessment
- 12 out of 21 self-efficacy questionnaire items showed a statistical difference between pretest and posttest assessments

Results - Cont.

2nd Primary outcome: Knowledge

A significant improvement in preceptors' knowledge mean score was demonstrated after attending the program

Table 2: Overall change in knowledge score of participants after

ı	attending the "Practice Educators Academy"								
		N	Knowledge	Mean	95% CI	P-value			
ı			score Mean (SD)	difference (SD)					
	Pretest Posttest	26	10.15 (5.17) 15.65 (6.46)	-5.50 (5.26)	Lower: -7.626 Upper: -3.374	<0.001			
1			, ,						

- Number of students: preceptors who precept more than 20 students per year showed higher knowledge score than preceptors who precept 1-10 students at the pretest assessment
- 11 out of 25 knowledge test items showed a statistical difference between pretest and posttest assessments

Examples of suggestions for

"To teach each module in a

separate time; like a day for

another day for teaching methods." assessment and evaluation, and

"Some activities can be given to

participants as assignments to

"To be physically attended is

program improvement

Secondary outcome: Satisfaction

provided by participants

"This is a world class workshop. I have finished 2 years in UK and acquired higher certificate in education, but I still found this extremely helpful. I learnt so much!"

"The good thing is that it can be marketed in the future as useful for 'beginners' 'experienced' in medical education.'

practice."

better.'

Future Directions

- Strong preceptor training results in improved student training (4), which has significant long term effects on patient care, health outcomes, and organizational effectiveness.
- The assessment of these downstream effects was outside the scope of this study but should be considered when implementing such a program in the future research

References

- Funded by Qatar University: QUCP-CPH-2018/2019-1