

S1 Table. Relationship between items of students' understanding towards pharmaceutical care and socio-demographic characteristics categories.

<i>Students Understanding VS Characteristics</i>	<i>Category</i>	<i>Correct Answer</i>	<i>P-Value</i>
pharmaceutical care involves a defined process of activities, in which all steps must be completed to provide this service * Gender	Male	79.7%	.012*
	Female	90.1%	
	Total	81.7%	
All patients who are treated with drug therapy need PC. [F] * Gender	Male	18.2%	.047*
	Female	27.5%	
	Total	20%	
pharmaceutical care providers need counseling rooms or other private areas to provide pharmaceutical care. * Gender	Male	26.6%	.009*
	Female	14.4%	
	Total	24.3%	
The term “clinical pharmacy” can be replaced with “pharmaceutical care”. [F] * Degree after graduation	B. Pharm	40.4%	0.011*
	B.Clin.Pharm	64.5%	
	Pharm D	51.2%	
	Total	43.9%	
pharmaceutical care is an extension of present community pharmacy services. [F] * Degree after graduation	B. Pharm	24.2%	0.004*
	B.Clin.Pharm	33.3%	
	Pharm D	41.7%	
	Total	27.9%	

<p>pharmaceutical care providers need counseling rooms or other private areas to provide pharmaceutical care. [F] * Degree after graduation</p>	<p>B. Pharm B.Clin.Pharm Pharm D Total</p>	<p>27.3% 25.8% 10.7% 24.2%</p>	<p>0.006*</p>
<p>The primary goal of pharmaceutical care is to maintain and improve patients' quality of life. * If you Work</p>	<p>Community pharmacy Hospital pharmacy Pharmaceutical industry Pharmaceutical marketing Others Total</p>	<p>98% 100% 80% 100% 100% 98.1%</p>	<p>.039*</p>
<p>Carrying out pharmaceutical care necessitates drug information support. * If you Work</p>	<p>Community pharmacy Hospital pharmacy Pharmaceutical industry Pharmaceutical marketing Others Total</p>	<p>99% 89.5% 80% 96% 84.6% 95.7%</p>	<p>.025*</p>
<p>The term “clinical pharmacy ” can be replaced with “pharmaceutical care. {F} * Preferred Career</p>	<p>Community pharmacy Hospital pharmacy Pharmaceutical industry Pharmaceutical marketing</p>	<p>46.5% 45.3% 32.2% 54.9%</p>	<p>.006*</p>

	Others	36.5%	
	Total	41.1%	
Pharmaceutical care providers need counseling rooms or other private areas to provide pharmaceutical care. {F} * Preferred Career	Community pharmacy	27.9%	.023*
	Hospital pharmacy	15.1%	
	Pharmaceutical industry	19.8%	
	Pharmaceutical marketing	33.1%	
	Others	18.9%	
	Total	24.6%	

(B. Pharm) **Bachelor of pharmacy** (B. Clin. Pharm) **Bachelor of clinical pharmacy**
(Pharm.D) **Doctor of pharmacy**

* Significant (<0.05)

{F} False Statement

S2 Table. Students' attitudes towards pharmaceutical care per PCAS scale

PCAS scale Vs characteristic	Category	Mean Rank (IQR)	P-Value
Professional benefit PB Vs Current work	Yes	4.5 (4.25 – 4.75)	.001* ^a
	No	4.3 (3.75 – 4.5)	
Professional duty PD Vs Current work	Yes	4.5 (4 – 5)	.008* ^a
	No	4.3 (4 – 4.5)	
Return on effort (RE) Vs Current work	Yes	3(2 – 3)	.009* ^a
	No	2.3(2 – 2.75)	
Return on effort (RE) Vs If, what type of work	Community pharmacy	2.5 (2 – 3)	.007* ^b
	Hospital pharmacy	3 (2.7 – 3.5)	
	Pharmaceutical industry	2 (1.5ss – 2)	
	Pharmaceutical marketing	3 (2.5 – 3)	
	Others	2.5 (2 – 3.5)	

^a Mann-Whitney U test

^b Kruskal-Wallis test

* Significant (<0.05)

S3 Table. Relationship between items of students' attitudes items and socio-demographic characteristics categories.

Attitude Vs characteristic	Category	Median (IQR)	P-value
I feel that pharmaceutical care is the right direction for the profession to be headed. Vs Gender	M	5 (4 – 5)	.042 ^{*a}
	F	5 (4 – 5)	
Providing pharmaceutical care is not worth the additional work load that it places on the pharmacist. Vs Gender	M	3 (2 – 4)	.042 ^{*a}
	F	4 (2.5 – 4)	
Pharmacists' primary responsibility should be to practice pharmaceutical care. Vs Age	≤ 25 years	4 (4 – 5)	.042 ^{*a}
	> 25 years	4 (4 – 5)	
The primary responsibility of pharmacists in all health care settings should be to	B. Pharm	4 (4 – 5)	
	B. Clin. Pharm	5 (4 – 5)	

prevent and solve medication-related problems. Vs Type of program	Pharm. D	5 (4 – 5)	.033 ^{*b}
Providing pharmaceutical care takes too much time and effort. Vs Type of program	B. Pharm	2 (2 – 3)	.001 ^{*b}
	B. Clin. Pharm	2 (2 – 2.5)	
	Pharm. D	2 (1 – 2)	
I feel that pharmaceutical care is the right direction for the profession to be headed. Vs Type of program	B. Pharm	5 (4 – 5)	.003 ^{*b}
	B. Clin. Pharm	4 (4 - 5)	
	Pharm. D	5 (5 – 5)	
I feel that the pharmaceutical care movement will benefit pharmacists. Vs Type of program	B. Pharm	5 (4 – 5)	.003 ^{*b}
	B. Clin. Pharm	4 (4 – 5)	
	Pharm. D	5 (5 – 5)	
I feel that pharmaceutical care is the right direction for the profession to be headed. Vs Motivation	Self-motivation	5 (4 – 5)	.040 ^{*b}
	Force by family	4 (4 – 5)	
	Influence by friends or seniors	5 (4 – 5)	
	Others	5 (4 – 5)	
Providing pharmaceutical	Self-motivation	3 (2 – 4)	

care is not worth the additional work load that it places on the pharmacist. Vs Motivation	Force by family	4 (2 – 5)	.011 ^{*b}
	Influence by friends or seniors	3 (2 – 4)	
	Others	4 (2 – 5)	
Pharmacists' primary responsibility should be to practice pharmaceutical care. Vs Current employment	Yes	4 (4 – 5)	.032 ^{*a}
	No	4 (4 – 5)	
Pharmacy students can perform pharmaceutical care during their experiential training (placements). Vs Current employment	Yes	4 (4 – 5)	.010 ^{*a}
	No	4 (3 – 4)	
Providing pharmaceutical care takes too much time and effort. Vs Current employment	Yes	2 (1 – 3)	.027 ^{*a}
	No	2 (2 – 3)	
Providing pharmaceutical care takes too much time and effort Vs If, what type of work	Community pharmacy	2 (1 – 2)	.037 ^{*b}
	Hospital pharmacy	2 (2 – 4)	
	Pharmaceutical industry	2 (2 – 2)	
	Pharmaceutical marketing	2 (2 – 4)	

	Others	2 (2 – 3)	
I think the practice of pharmaceutical care is valuable Vs If, what type of work	Community pharmacy	5 (4 – 5)	.037 ^{*a}
	Hospital pharmacy	5 (4 – 5)	
	Pharmaceutical industry	4 (4 – 4)	
	Pharmaceutical marketing	4 (4 – 5)	
	Others	4 (4 – 5)	

(B. Pharm) **Bachelor of pharmacy** (B. Clin. Pharm) **Bachelor of clinical pharmacy** (Pharm.D) **Doctor of pharmacy**

^a Mann-Whitney U test

^b Kruskal-Wallis test

* Significant (<0.05)