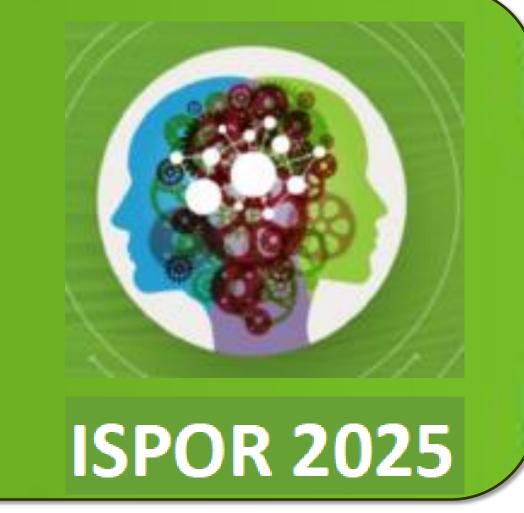


Perception Gap Between Preceptors and Pharmacy Students on Clinical Pharmacy Practice Education (CPPE) in Hospital Pharmacy

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OBJECTIVES

Since the adoption of the 6-year pharmaceutical college curriculum in Korea, the role of preceptors who conduct clinical pharmacy practice education (CPPE) has become more important. This study was conducted to assess the differences in perception and satisfaction of the CPPE through a survey of students and preceptors who completed CPPE from 2022 to 2023 at Veterans Hospital in Seoul, Korea.

METHOD

The survey composed of 17 questions for both students and preceptors, and additional 7 questions for only preceptor. The responses of "excellent" was considered as a positive responses and "average" – "insufficient" was considered as a negative responses. Statistical analysis was performed using the Chi square test and Fisher's exact test, with a p-value less than 0.05 defined as statistically significant.

RESULTS

Total 70 respondents (48 students and 22 preceptors) responded to the survey. 63.6% of preceptors had master's degrees, 77.3% were certified pharmacy specialists from the Korean Society of Health-system Pharmacists, and 59.1% had >10 years of experience. About overall evaluation of CPPE, "Providing positive educational environment" has the largest difference in positive evaluation rate between students and preceptors (85.4% vs 50.0%, p<0.05). In the evaluation of preceptor competency, "Providing systematic education" has the largest difference (97.9% vs 50.0%, p<0.05). In the preceptor subgroup analysis, clinical lecture preceptors and preceptors with more than 10 years of experience had higher positive response rates than practice preceptors and preceptors with less than 10 years of experience. Especially, "Providing opportunities to acquire and develop qualifications and capabilities as a pharmacist" had a difference of more than 3 times. The most disability influencing factor to performing the preceptor role was "Pressure of concurrent work" (55.3%), and the most promotional factor was "financial compensation" (39.5%). The detailed results were as shown in the following table (Result 1-4). Only the results with p<0.05 are shown in the table.

Result 1) General Characteristics of responders : N (%)

Characteristics		Total (n	Total (n=70)		
		Preceptors (n=22)	Students (n=48)		
	Preceptor subgroup				
Preceptors	Practice preceptor	10 (45.5)			
	Clinical lecture preceptor	12 (54.5)			
	Final degrees of preceptor				
	Bachelor's degree	8 (36.4)			
	Master's degree	14 (63.6)			
	Experiences as a hospital pharm	acist			
	< 5 years	0 (0.0)			
	5 ~ 10 years	9 (40.9)			
	10 years <	13 (59.1)			
	Certified pharmacy specialists pl	narmacist			
	by Korean Society of Health system Pharmacists				
	Qualified	17 (77.3)			
	Not Qualified	5 (22.7)			
	by the Ministry of Health and V				
	Qualified	10 (45.4)			
	Not Qualified	12 (54.6)			
	Academic year of CPPE				
	1 st session of 2021		12 (25.0)		
Students	2 nd session of 2021		12 (25.0)		
	1 st session of 2022		12 (25.0)		
	2 nd session of 2022		12 (25.0)		

The data are reported as n (%).

Result 2) Comparison of evaluations between preceptors and students : Overall Evaluation of CPPE

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Questionnaires	Preceptors (n=22)	Students (n=48)	Total (n=70)	P-value			
Providing opportunities to acquire and develop qualifications and capabilities as a pharmacist							
Positive responses	14 (63.6%)	46 (95.8%)	60 (85.7%)	0.001			
Negative responses	8 (36.4%)	2 (4.2%)	10 (14.3%)				
Providing positive educational environment that could improve student achievement							
Positive responses	11 (50.0%)	41 (85.4%)	52 (74.3%)	0.004			
Negative responses	11 (50.0%)	7 (14.6%)	18 (25.7%)				
Playing a positive role in career decision-making							
Positive responses	13 (59.1%)	42 (87.5%)	55 (78.6%)	0.012			
Negative responses	9 (40.9%)	6 (12.5%)	15 (21.4%)				
Overall evaluation of CPPE at institutions							
Positive responses	15 (68.2%)	44 (91.7%)	59 (84.3%)	0.029			
Negative responses	7 (31.8%)	4 (8.3%)	11 (15.7%)				
* The data are reported as n (%)							

The data are reported as n (%) * P values were calculated using the Chi square test or Fisher's exact test.

Result 3) Comparison of preceptor evaluations based on work experience as hospital pharmacist: 5 ~ 10 vs <10 years

	5~10 years	<10 years	Total	Dyalua		
Questionnaires	(n=9)	(n=13)	(n=22)	P-value		
Providing opportunities to acquire and develop qualifications and capabilities as a pharmacist						
Positive responses	2 (22.2%)	12 (92.3%)	14 (63.6%)	0.001		
Negative responses	7 (77.7%)	1 (7.7%)	8 (36.4%)			
Utilizing informatics to evaluate patient's drug therapy and learn skills to solve problems						
Positive responses	5 (55.5%)	13 (100.0%)	18 (81.8%)	0.017		
Negative responses	4 (44.4%)	0 (0.0%)	4 (18.2%)			
Overall evaluation of CPPE at institutions	S					
Positive responses	3 (33.3%)	12 (92.3%)	15 (68.2%)	0.007		
Negative responses	6(66.7%)	1 (7.7%)	7 (31.8%)			
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* P values were calculated using the Chi square test or Fisher's exact test

Result 4) Comparison of preceptor evaluations by task performed : Practice preceptor vs Clinical lecture preceptor

Questionnaires	Practice (n=10)	Clinical (n=12)	Total (n=22)	P-value		
Providing opportunities to acquire and develop qualifications and capabilities as a pharmacist						
Positive responses	3(30.0%)	11(91.7%)	14(63.6%)	0.006		
Negative responses	7(70.0%)	1(8.3%)	8(36.4%)			
Providing positive educational environi	ment that could i	mprove student	achievement			
Positive responses	2(20.0%)	9(75.0%)	11(50.0%)	0.032		
Negative responses	8(80.0%)	3(25.0%)	11(50.0%)			
Overall evaluation of CPPE at institutions						
Positive responses	4(40.0%)	11(91.7%)	15(68.2%)	0.020		
Negative responses	6(60.0%)	1(8.3%)	7(31.8%)			

CONCLUSIONS

The results of the study showed that students perceived CPPE more positively than the preceptors (93.8% vs 68.2%, p<0.05). The purpose of this study was to analyze the differences in perception between preceptors and students at in CPPE, and to improve the quality of CPPE.

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*Disclosure

Authors of presentation have the following to disclose concerning possible financial or personal relationships with commercial entities that may have a direct or indirect interest in the subject matter of this presentation. Nayoung Kim, Younjoo Jung, Soyoung Baek, Soojung Yoon, Kyungsook Yeon: Nothing to disclose