Online Appendix. Bivariate analysis of different variables and barriers to participation in CPD

Variables	Accessible activity						Job cons	Job constraints						
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	P-value	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	P-value		
Age		I	I					II.	II.					
20-30 years	47.6%	39.2%	33.0%	40.8%	33.3%	0	44.8%	37.1%	34.2%	45.4%	42.9%	0		
31-40 years	28.2%	25.3%	40.4%	32.7%	50.0%	0.323	32.0%	28.7%	26.3%	33.3%	28.6%	0.231		
41-50 years	17.7%	22.6%	16.0%	18.4%	0.0%	۰,	15.7%	21.8%	27.6%	15.2%	0.0%			
51-60 years	4.0%	10.1%	10.6%	8.2%	16.7%		5.8%	8.9%	11.8%	6.1%	28.6%			
>61 years	2.4%	2.8%	0.0%	0.0%	0.0%		1.7%	3.5%	0.0%	0.0%	0.0%			
Gender							1							
Male	36.3%	35.5%	39.4%	42.9%	16.7%	0	38.4%	37.6%	30.3%	36.4%	42.9%	0		
Female	63.7%	64.5%	60.6%	57.1%	83.3%	0.690	61.6%	62.4%	69.7%	63.6%	57.1%	0.781		
Primary current site of pract		60.00	- CO C - :	T 50 111	22.25	1		1 60 454	1 45 454	20. 171	T ==	-		
Community pharmacy	58.1%	60.8%	62.8%	53.1%	33.3%	<u> </u>	66.3%	62.4%	47.4%	39.4%	57.1%	_b		
Hospital pharmacy	12.9%	7.4%	6.4%	8.2%	0.0%	0.650	7.0%	6.4%	10.5%	18.2%	0.0%	0.248		
Medical representative	8.1%	6.0%	6.4%	12.2%	33.3%	-[6.4%	6.4%	11.8%	12.1%	14.3%	-[~		
University teacher	3.2%	4.6%	2.1%	4.1%	0.0%		2.9%	4.5%	2.6%	6.1%	0.0%			
Industry	3.2%	1.8%	1.1%	2.0%	0.0%		1.7%	2.0%	1.3%	6.1%	0.0%			
Laboratory	0.8%	1.4%	0.0%	0.0%	0.0%	_	1.7%	0.5%	0.0%	0.0%	0.0%	_		
Other	13.7%	18.0%	21.3%	20.4%	33.3%		14.0%	17.8%	26.3%	18.2%	28.6%			
Variables	Lack of time						Family constraints							
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	P-value	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	P-value		
Age														
Age 20-30 years	44.6%	38.2%	32.8%	34.6%	16.7%	<u></u>	36.1%	28.8%	39.8%	57.5%				
Age 20-30 years 31-40 years	44.6% 33.2%	38.2% 27.6%	32.8% 31.3%	34.6% 19.2%	16.7% 50.0%	0,04	36.1% 38.6%	28.8% 34.9%	39.8% 32.0%	57.5% 17.2%	58.3% 22.2%	0.00		
20-30 years	44.6% 33.2% 16.3%	38.2% 27.6% 21.1%			16.7% 50.0% 0.0%	0.046					58.3%	0.005		
20-30 years 31-40 years	33.2% 16.3% 4.5%	27.6%	31.3%	19.2%	50.0% 0.0% 33.3%	0.046	38.6%	34.9% 23.3% 11.0%	32.0%	17.2%	58.3% 22.2%	0.005		
20-30 years 31-40 years 41-50 years	33.2% 16.3%	27.6% 21.1%	31.3% 20.3%	19.2% 34.6%	50.0% 0.0%	0,046	38.6% 20.5%	34.9% 23.3%	32.0% 18.0%	17.2% 13.8%	58.3% 22.2% 8.3%	0.005		
20-30 years 31-40 years 41-50 years 51-60 years >61 years	33.2% 16.3% 4.5%	27.6% 21.1% 10.1%	31.3% 20.3% 15.6%	19.2% 34.6% 11.5%	50.0% 0.0% 33.3%	0,046	38.6% 20.5% 3.6%	34.9% 23.3% 11.0%	32.0% 18.0% 7.0%	17.2% 13.8% 10.3%	58.3% 22.2% 8.3% 11.1%	0.005		
20-30 years 31-40 years 41-50 years 51-60 years	33.2% 16.3% 4.5%	27.6% 21.1% 10.1%	31.3% 20.3% 15.6%	19.2% 34.6% 11.5%	50.0% 0.0% 33.3%		38.6% 20.5% 3.6%	34.9% 23.3% 11.0%	32.0% 18.0% 7.0%	17.2% 13.8% 10.3%	58.3% 22.2% 8.3% 11.1%	-		
20-30 years 31-40 years 41-50 years 51-60 years >61 years	33.2% 16.3% 4.5% 1.5%	27.6% 21.1% 10.1% 3.0%	31.3% 20.3% 15.6% 0.0%	19.2% 34.6% 11.5% 0.0%	50.0% 0.0% 33.3% 0.0%	0,046 0 484	38.6% 20.5% 3.6% 1.2%	34.9% 23.3% 11.0% 2.1%	32.0% 18.0% 7.0% 3.1%	17.2% 13.8% 10.3% 1.1%	58.3% 22.2% 8.3% 11.1% 0.0%	0.005 0.590		
20-30 years 31-40 years 41-50 years 51-60 years >61 years Gender Male Female	33.2% 16.3% 4.5% 1.5% 39.6% 60.4%	27.6% 21.1% 10.1% 3.0%	31.3% 20.3% 15.6% 0.0%	19.2% 34.6% 11.5% 0.0%	50.0% 0.0% 33.3% 0.0%		38.6% 20.5% 3.6% 1.2%	34.9% 23.3% 11.0% 2.1% 35.6%	32.0% 18.0% 7.0% 3.1%	17.2% 13.8% 10.3% 1.1%	58.3% 22.2% 8.3% 11.1% 0.0%	-		
20-30 years 31-40 years 41-50 years 51-60 years >61 years Gender Male Female Primary current site of pract	33.2% 16.3% 4.5% 1.5% 39.6% 60.4%	27.6% 21.1% 10.1% 3.0% 34.7% 65.3%	31.3% 20.3% 15.6% 0.0% 28.1% 71.9%	19.2% 34.6% 11.5% 0.0% 42.9%	50.0% 0.0% 33.3% 0.0% 33.3% 66.7%	0 484	38.6% 20.5% 3.6% 1.2% 30.1%	34.9% 23.3% 11.0% 2.1% 35.6% 64.4%	32.0% 18.0% 7.0% 3.1% 39.1% 60.9%	17.2% 13.8% 10.3% 1.1% 41.4% 58.6%	58.3% 22.2% 8.3% 11.1% 0.0% 38.9%	0.590		
20-30 years 31-40 years 41-50 years 51-60 years >61 years Gender Male Female Primary current site of pract Community pharmacy	33.2% 16.3% 4.5% 1.5% 39.6% 60.4%	27.6% 21.1% 10.1% 3.0% 34.7% 65.3%	31.3% 20.3% 15.6% 0.0% 28.1% 71.9%	19.2% 34.6% 11.5% 0.0% 42.9% 57.7%	50.0% 0.0% 33.3% 0.0% 33.3% 66.7%	0 484	38.6% 20.5% 3.6% 1.2% 30.1% 69.9%	34.9% 23.3% 11.0% 2.1% 35.6% 64.4%	32.0% 18.0% 7.0% 3.1% 39.1% 60.9%	17.2% 13.8% 10.3% 1.1% 41.4% 58.6%	58.3% 22.2% 8.3% 11.1% 0.0% 38.9% 61.1%	0.590		
20-30 years 31-40 years 41-50 years 51-60 years >61 years Gender Male Female Primary current site of pract Community pharmacy Hospital pharmacy	33.2% 16.3% 4.5% 1.5% 39.6% 60.4% tice 58.9% 7.4%	27.6% 21.1% 10.1% 3.0% 34.7% 65.3%	31.3% 20.3% 15.6% 0.0% 28.1% 71.9%	19.2% 34.6% 11.5% 0.0% 42.9% 57.7%	50.0% 0.0% 33.3% 0.0% 33.3% 66.7% 66.7%		38.6% 20.5% 3.6% 1.2% 30.1% 69.9%	34.9% 23.3% 11.0% 2.1% 35.6% 64.4%	32.0% 18.0% 7.0% 3.1% 39.1% 60.9% 67.2% 9.4%	17.2% 13.8% 10.3% 1.1% 41.4% 58.6% 59.8% 8.0%	58.3% 22.2% 8.3% 11.1% 0.0% 38.9% 61.1%	-		
20-30 years 31-40 years 41-50 years 51-60 years >61 years Gender Male Primary current site of pract Community pharmacy Hospital pharmacy Medical representative	33.2% 16.3% 4.5% 1.5% 39.6% 60.4% tice 58.9% 7.4% 11.4%	27.6% 21.1% 10.1% 3.0% 34.7% 65.3% 64.3% 9.0% 3.0%	31.3% 20.3% 15.6% 0.0% 28.1% 71.9% 48.4% 10.9% 9.4%	19.2% 34.6% 11.5% 0.0% 42.9% 57.7% 53.8% 7.7% 7.7%	50.0% 0.0% 33.3% 0.0% 33.3% 66.7% 66.7% 0.0% 16.7%	0 484	38.6% 20.5% 3.6% 1.2% 30.1% 69.9% 54.2% 8.4% 8.4%	34.9% 23.3% 11.0% 2.1% 35.6% 64.4% 54.8% 9.6% 5.5%	32.0% 18.0% 7.0% 3.1% 39.1% 60.9% 67.2% 9.4% 5.5%	17.2% 13.8% 10.3% 1.1% 41.4% 58.6% 59.8% 8.0% 9.2%	58.3% 22.2% 8.3% 11.1% 0.0% 38.9% 61.1% 55.6% 5.6% 16.7%	0.590		
20-30 years 31-40 years 41-50 years 51-60 years >61 years Gender Male Primary current site of pract Community pharmacy Hospital pharmacy Medical representative University teacher	33.2% 16.3% 4.5% 1.5% 39.6% 60.4% tice 58.9% 7.4% 11.4% 3.5%	27.6% 21.1% 10.1% 3.0% 34.7% 65.3% 64.3% 9.0% 3.0% 4.0%	31.3% 20.3% 15.6% 0.0% 28.1% 71.9% 48.4% 10.9% 9.4% 1.6%	19.2% 34.6% 11.5% 0.0% 42.9% 57.7% 53.8% 7.7% 7.7%	50.0% 0.0% 33.3% 0.0% 33.3% 66.7% 66.7% 0.0% 16.7% 0.0%	0 484	38.6% 20.5% 3.6% 1.2% 30.1% 69.9% 54.2% 8.4% 8.4% 3.6%	34.9% 23.3% 11.0% 2.1% 35.6% 64.4% 54.8% 9.6% 5.5% 4.1%	32.0% 18.0% 7.0% 3.1% 39.1% 60.9% 67.2% 9.4% 5.5% 3.1%	17.2% 13.8% 10.3% 1.1% 41.4% 58.6% 59.8% 8.0% 9.2% 3.4%	58.3% 22.2% 8.3% 11.1% 0.0% 38.9% 61.1% 55.6% 5.6% 16.7% 5.6%	0.590		
20-30 years 31-40 years 41-50 years 51-60 years >61 years Gender Male Primary current site of pract Community pharmacy Hospital pharmacy Medical representative	33.2% 16.3% 4.5% 1.5% 39.6% 60.4% tice 58.9% 7.4% 11.4%	27.6% 21.1% 10.1% 3.0% 34.7% 65.3% 64.3% 9.0% 3.0%	31.3% 20.3% 15.6% 0.0% 28.1% 71.9% 48.4% 10.9% 9.4%	19.2% 34.6% 11.5% 0.0% 42.9% 57.7% 53.8% 7.7% 7.7%	50.0% 0.0% 33.3% 0.0% 33.3% 66.7% 66.7% 0.0% 16.7%	0 484	38.6% 20.5% 3.6% 1.2% 30.1% 69.9% 54.2% 8.4% 8.4%	34.9% 23.3% 11.0% 2.1% 35.6% 64.4% 54.8% 9.6% 5.5%	32.0% 18.0% 7.0% 3.1% 39.1% 60.9% 67.2% 9.4% 5.5%	17.2% 13.8% 10.3% 1.1% 41.4% 58.6% 59.8% 8.0% 9.2%	58.3% 22.2% 8.3% 11.1% 0.0% 38.9% 61.1% 55.6% 5.6% 16.7%	0.590		

Variables	Enough time to achieve CPD						Sufficient resources							
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	P-value	Strongly agree		Agree	Neutral	Disagree	Strongly disagree	P-value	
Age	21.00/	26.40/	20.60/	27.60/	42.20/	1	24.70/	25 /	30/	16.90/	24.10/	(0.20/	1	
20-30 years	31.0%	26.4%	39.6%	37.6%	43.3%	0.001	24.7%	35.2		46.8%	24.1%	69.2%	0.006	
31-40 years	24.1%	24.0%	30.6%	37.6%	35.0%	Ĕ,	32.3%		30.5% 23.7%	25.8%	44.8%	15.4%		
41-50 years	10.3%	32.2%	20.7%	18.3%	16.7%		21.5%			14.5%	31.0%	15.4%	_	
51-60 years	31.0%	12.4% 5.0%	8.1% 0.9%	5.5% 0.9%	3.3% 1.7%		19.4%	7.2°		12.9% 0.0%	0.0%	0.0%		
>61 years	3.4%	3.0%	0.9%	0.9%	1.7%		2.2%	3.4	70	0.0%	0.0%	0.0%		
Gender														
Male	37.9%	28.1%	38.7%	38.5%	51.7%	0.0	33.3%	36.49	4%	38.7%	44.8%	46.2%	0.7	
Female	62.1%	71.9%	61.3%	61.5%	48.3%	0.043	66.7%	63.0	5%	61.3%	55.2%	53.8%	0.759	
[]	··							<u> </u>						
Primary current site of pra Community pharmacy	75.9%	53.9%	60.4%	58.7%	55.0%	1	55.9%	56.8	20/	61.3%	75.9%	61.5%		
Hospital pharmacy	3.4%	14.0%	5.4%	5.5%	10.0%	0.095	7.5%	9.3		8.1%	0.0%	15.4%	0.064	
Medical representative	3.4%	5.0%	9.9%	6.4%	16.7%		7.5%	7.29		12.9%	10.3%	7.7%	- 64	
University teacher	3.4%	4.1%	6.3%	1.8%	1.7%		6.5%	4.29		0.0%	0.0%	0.0%		
Industry	0.0%	2.5%	1.8%	3.7%	1.7%		3.2%	3.0		0.0%	0.0%	0.0%		
Laboratory	3.4%	0.0%	0.0%	0.9%	1.7%	_	2.2%	0.4		0.0%	0.0%	0.0%	_	
Other	10.3%	20.7%	16.2%	22.9%	13.3%		17.2%	19.		17.7%	13.8%	15.4%		
	10.570	201770	10.270	22.570	10.070		17.1270		1,0	171770	10.070	101.70		
Variables			Sufficient e	enthusiasm	1									
			agree	Strongly	Agree			Neutral		Disagree		Strongly disagree	P-value	
Age				1							T		- 1	
20-30 years			26.1%	33.79			1.9%		35.49		37.9%		0.0	
31-40 years					27.6%		24.8%		45.89		51.7%		0.013	
41-50 years					26.5%		21.0% 9.4%		14.69	6	10.3%			
51-60 years			18.8%	9.4%		_			4.2%		0.0%			
>61 years			2.9%	2.8%		2.	.9%		0.0%		0.0%			
Gender														
Male		31.9%		34.89	34.8% 65.2%		39.0% 61.0%		43.8%		48.3%	3%		
Female		(58.1%	65.29					56.3%	6	51.7%		0.429	
Primary current site of pra	octice													
Primary current site of pra Community pharmacy	actice		58.0%	60.29	%	6	1.0%		52.19	6	51.7%		0	
	actice		58.0% 11.6%	60.2° 8.8%			1.0% .7%	+	52.19 8.3%	6	51.7% 6.9%		0.69	
Community pharmacy	actice					5.							0.696	
Community pharmacy Hospital pharmacy	actice		11.6%	8.8%	1	5. 6.	.7%		8.3%		6.9%		0.696	
Community pharmacy Hospital pharmacy Medical representative	actice	8	11.6% 3.7%	8.8% 6.1%		5. 6. 4.	.7% .7%		8.3% 12.5%		6.9% 17.2%		0.696	
Community pharmacy Hospital pharmacy Medical representative University teacher	actice	1	11.6% 3.7% 7.2%	8.8% 6.1% 3.3%		5. 6. 4. 2.	.7% .7% .8%		8.3% 12.5% 0.0%	6	6.9% 17.2% 0.0%		0.696	