

APPENDIX A

Table 7: Descriptive analysis of the factors associated with making an error and/or acknowledging it

Variables	Values	I have Made an Error as a resulting of using my smart device at the ED		P value (Significant values are marked with an asterisk)
		No N=78	Yes N=15	
Gender	Female	39 (51.3%)	5 (38.5%)	.39
	Male	37 (48.7%)	8 (61.5%)	
Age	<30	52 (66.7%)	7 (46.7%)	.04*
	30-39	19 (24.4%)	3 (20.0%)	
	≥40	7 (9.0%)	5 (33.3%)	
Job	Medical student	17 (21.8%)	5 (33.3%)	.17
	Nurse	29 (37.2%)	2 (13.3%)	
	Resident	19 (24.4%)	3 (20.0%)	
	Attending physician	13 (16.7%)	5 (33.3%)	
Experience in years	<5 years	14 (50.0%)	0 (0.0%)	.049*
	6 to 10 years	8 (28.6%)	1 (25.0%)	
	>10 years	6 (21.4%)	3 (75.0%)	
Do you use a smart tablet	Yes	25 (32.1%)	3 (20.0%)	.54
Do you use a smart watch	Yes	3 (3.8%)	0 (0.0%)	1.000
Do you bring Smart device to ED	Yes	78 (100.0%)	15 (100.0%)	NA
Do you use any medical related applications on your smart device	Yes	67 (85.9%)	13 (86.7%)	1.000
Do you use Medication formulary/drug reference applications	Yes	66 (85.7%)	12 (80.0%)	.69
Do you use Clinical score systems/medical Calculator applications	Yes	52 (62.5%)	10 (66.7%)	1.000
Do you use Disease diagnosis/management applications	Yes	53 (69.7%)	9 (60.0%)	.55

Do you use Procedure documentation applications	Yes	16 (24.6%)	4 (26.7%)	1.000
Do you use Web access of applications	Yes	66 (85.7%)	11 (73.3%)	.26
Do you use Email access applications	Yes	68 (90.7%)	14 (93.3%)	1.000
Do you use Calendar applications	Yes	58 (76.3%)	11 (73.3%)	.75
Do you use Social applications	Yes	49 (63.6%)	11 (78.6%)	.37
Do you use Messaging applications	Yes	66 (85.7%)	14 (93.3%)	.68
Do you use your smart device for Phone calls	Yes	57 (74.0%)	12 (80.0%)	.75
Do you use your smart device for Clinical care related use in ED	Yes	71 (91.0%)	15 (100.0%)	.59
Do you use your smart device for the personal use during your shift in the ED	Yes	59 (76.6%)	15 (100.0%)	.04*
I have observed a trainee use their smart device during their ED shift	Yes	75 (96.2%)	15 (100.0%)	1.000
I have observed a nurse use their smart device during their ED shift	Yes	69 (88.5%)	13 (86.7%)	1.000
I have observed an attending physician use their smart device during their ED shift	Yes	76 (97.4%)	14 (93.3%)	.41
I have observed trainees use their smart devices during ED shifts for Clinical care related use	Yes	68 (93.2%)	13 (92.9%)	1.000
I have observed trainees use their smart devices during ED shifts for personal use	Yes	65 (87.8%)	14 (100.0%)	.34
I have observed attending use their smart devices during ED shifts for Clinical care related use	Yes	63 (86.3%)	14 (93.3%)	.68

I have observed attending use their smart devices during ED shifts for personal use	Yes	66 (90.4%)	15 (100.0%)	.6
I have observed nurses use their smart devices during ED shifts for Clinical care related use	Yes	50 (67.6%)	6 (42.9%)	.12
I have observed nurses use their smart devices during ED shifts for personal use	Yes	63 (84.0%)	13 (86.7%)	1.000
I have missed information as a result of using my smart device	Yes	2 (2.6%)	3 (20.0%)	.03*
Using the smart device has positively impacted my performance at work	Yes	30 (41.7%)	3 (20.0%)	.12
I have witnessed a trainee getting distracted as a result of using the smart device	Yes	45 (58.4%)	13 (92.9%)	.01*
I have witnessed a nurse getting distracted as a result of using the smart device	Yes	40 (53.3%)	10 (66.7%)	.34
I have witnessed an attending getting distracted as a result of using the smart device	Yes	32 (43.2%)	11 (73.3%)	.03*
Have any of your ED co-workers made an error as a result of using the smart device	Yes	36 (46.2%)	15 (100.0%)	<0.001*
Using smart devices allowed better coordination among the healthcare providers	Yes	57 (78.1%)	13 (100.0%)	.12
Using smart devices improved ED cohesion teamwork	Yes	41 (58.6%)	5 (35.7%)	.12
Using smart devices improved patient safety	Yes	43 (63.2%)	4 (28.6%)	.02*

Using smart devices is beneficial to patient care	Yes	59 (78.7%)	11 (78.6%)	1.000
Using smart devices assisted in solving my personal issues	Yes	62 (83.8%)	9 (64.3%)	.13
Using smart devices reduces my stress	Yes	56 (77.8%)	8 (57.1%)	.18
Do you support the need for a code of Conduct	Yes	30 (39.5%)	10 (71.4%)	.03*
My feeling about colleagues when use devices for non-clinical purposes	Negative	26 (34.2%)	8 (57.1%)	0.3
	Neutral	46 (60.5%)	6 (42.9%)	
	Positive	4 (5.3%)	0 (0.0%)	
Patient feelings feel when see the providers using smart devices for non-clinical purposes	Negative	54 (71.1%)	13 (92.9%)	.01*
	Neutral	22 (28.9%)	0 (0.0%)	
	Positive	0 (0.0%)	1 (7.1%)	
Patient feelings when see the providers using smart devices for clinical purposes	Negative	17 (22.4%)	3 (21.4%)	.93
	Neutral	27 (35.5%)	4 (28.6%)	
	Positive	32 (42.1%)	7 (50.0%)	
Using smart devices (the adapted CAGE tool)				
First thing in the morning	Yes	49 (64.5%)	12 (85.7%)	.21
Felt to cut down	Yes	23 (30.7%)	8 (57.1%)	.07
People annoyed criticizing	Yes	13 (17.1%)	4 (28.6%)	.46
Felt guilty	Yes	12 (15.8%)	5 (35.7%)	.13
0 of the above	Yes	18 (23.7%)	0 (0.0%)	.03*
At least one of the above	Yes	30 (39.5%)	6 (42.9%)	
At least two of the above	Yes	18 (23.7%)	3 (21.4%)	
At least 3 of the above	Yes	9 (11.8%)	3 (21.4%)	
All of the above	Yes	1 (1.3%)	2 (14.3%)	
Insignificant addiction score (average <2)	Yes	48 (63.2%)	6 (42.9%)	.15
Significant addiction score (average ≥2)	Yes	28 (36.8%)	8 (57.1%)	