

Appendix 1: The APSQ questionnaire

Attitudes to Patient Safety Questionnaire

Name.....

Date completed.....

Please circle the number that best reflects your opinion

		Strongly disagree	Strongly agree
1	My training is preparing me to understand the causes of medical errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
2	I have a good understanding of patient safety issues as a result of my undergraduate medical training.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
3	My training is preparing me to prevent medical errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
4	I would feel comfortable reporting any errors I had made, no matter how serious the outcome had been for the patient.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
5	I would feel comfortable reporting any errors other people had made, no matter how serious the outcome had been for the patient.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
6	I am confident I could talk openly to my supervisor about an error I had made if it had resulted in potential or actual harm to my patient.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
7	Shorter shifts for doctors will reduce medical errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
8	By not taking regular breaks during shifts doctors are at an increased risk of making errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
9	The number of hours doctors work increases the likelihood of making medical errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
10	Even the most experienced and competent doctors make errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
11	A true professional does not make mistakes or errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
12	Human error is inevitable.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
13	Most medical errors result from careless nurses.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	
14	If people paid more attention at work, medical errors would be avoided.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7	

15	Most medical errors result from careless doctors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
16	Medical errors are a sign of incompetence.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
17	It is not necessary to report errors which do not result in adverse outcomes for the patient.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
18	Doctors have a responsibility to disclose errors to patients only if they result in patient harm	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
19	All medical errors should be reported.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
20	Better multi-disciplinary teamwork will reduce medical errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
21	Teaching teamwork skills will reduce medical errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
22	Patients have an important role in preventing medical errors.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
23	Encouraging patients to be more involved in their care can help to reduce the risk of medical errors occurring.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
24	Teaching students about patient safety should be an important priority in medical students training.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
25	Patient safety issues cannot be taught and can only be learned by clinical experience when qualified.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
26	Learning about patient safety issues before I qualify will enable me to become a more effective doctor.	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7

Error and patient safety

Please circle the number that best describes your level of knowledge for each item

What is your level of knowledge regarding:		Low.....High
27	Different types of human error?	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
28	Factors contributing to human error?	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
29	Factors influencing patient safety?	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
30	Ways of speaking up about error?	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
31	What should happen if an error is made?	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
32	How to report an error?	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7
33	The role of healthcare organisations (e.g. hospitals, general practitioners) in error reporting?	1 ... 2 ... 3 ... 4 ... 5 ... 6 ... 7

Appendix 2: The PANAS

The PANAS

Name.....

Date Completed.....

This scale comprises of a number of words that describe different feelings and emotions. Read each item and then circle the appropriate answer next to that word. Indicate to what extent you feel **right now, in the present moment**.

	Very slightly or not at all	A little	Moderately	Quite a bit	Extremely
Interested	1	2	3	4	5
Distressed	1	2	3	4	5
Excited	1	2	3	4	5
Upset	1	2	3	4	5
Strong	1	2	3	4	5
Guilty	1	2	3	4	5
Scared	1	2	3	4	5
Hostile	1	2	3	4	5
Enthusiastic	1	2	3	4	5
Proud	1	2	3	4	5
Irritable	1	2	3	4	5
Alert	1	2	3	4	5
Ashamed	1	2	3	4	5
Inspired	1	2	3	4	5
Nervous	1	2	3	4	5
Determined	1	2	3	4	5
Attentive	1	2	3	4	5
Jittery	1	2	3	4	5
Active	1	2	3	4	5
Afraid	1	2	3	4	5

Appendix 3: Baseline APSQ and PANAS scores by trial arm

	Intervention N=142	Control N=141	Overall N=283
APSQ Data			
Complete Baseline APSQ	n=65	n=77	n=142
Mean Total (SD)	134.11 (11.67)	132.79 (12.00)	133.39 (11.83)
Median Total (Min, Max)	132 (114, 163)	135 (99, 153)	133 (99, 163)
Inter-Quartile Range	125 to 141	125 to 141	125 to 160
Complete baseline data (%)	65 (45.8)	77 (54.6)	142 (50.2)
Completely missing baseline data (%)	62 (43.7)	59 (41.8)	121 (42.8)
Partially missing baseline data (%)	15 (10.6)	5 (3.5)	20 (7.1)
PANAS Data			
Complete Baseline PANAS	n=132	n=112	n=244
PA Mean Total (SD)	23.85 (7.31)	22.96 (7.81)	23.44 (7.54)
PA Median Total (Min, Max)	23 (10 to 44)	22 (10, 43)	23 (10, 44)
PA Inter-Quartile Range	18 to 29	17 to 28.5	17.5 to 29
NA Mean Total (SD)	12.89 (3.72)	12.33 (3.72)	12.66 (3.74)
NA Median Total (Min, Max)	12 (10, 30)	11 (10, 28)	11 (10, 30)
NA Inter-Quartile Range	11 to 14	10 to 13	10 to 13
Complete baseline data (%)	132 (93.0)	112 (79.4)	244 (86.2)
Completely missing baseline data (%)	8 (5.6)	23 (16.3)	31 (10.9)
Partially missing baseline data (%)	2 (1.4)	6 (4.3)	8 (2.8)

Appendix 4: Baseline APSQ and PANAS scores by centre

	Hull N=110	York N=96	Scarborough N=31	Grimsby N=25	Scunthorpe N=21
APSQ Data					
Complete Baseline APSQ	n=44	n=66	n=13	n=8	n=11
Mean Total (SD)	134.34 (10.01)	133.12 (13.59)	132.15 (10.40)	133.75 (14.41)	132.45 (7.58)
Median Total (Min, Max)	134 (115, 153)	133 (99, 163)	132 (111, 148)	160 (114, 152)	135 (119, 144)
Inter-Quartile Range	127 to 141.5	124 to 142	125 to 139	123.5 to 148	126 to 138
Complete baseline data (%)	44 (40.0)	66 (68.8)	13 (41.9)	8 (32.0)	11 (52.4)
Completely missing baseline data (%)	60 (54.5)	21 (21.9)	15 (48.4)	16 (64.0)	9 (42.9)
Partially missing baseline data (%)	6 (5.5)	9 (9.4)	3 (9.7)	1 (4.0)	1 (4.8)
PANAS Data					
Complete Baseline PANAS	n=102	n=72	n=26	n=25	n=19
PA Mean Total (SD)	24.27 (7.87)	23.40 (7.04)	24.35 (7.20)	18.88 (6.08)	23.89 (8.29)
PA Median Total (Min, Max)	24 (11, 44)	23.5 (10, 42)	23 (14, 39)	17 (10, 30)	23 (10,41)
PA Inter-Quartile Range	18 to 29	18 to 28	20 to 30	15 to 22	17 to 30
NA Mean Total (SD)	12.78 (3.45)	12.72 (4.32)	12.19 (2.95)	13.00 (4.65)	11.63 (1.95)
NA Median Total (Min, Max)	11 (10, 24)	11 (10, 30)	11 (10, 22)	11 (10, 28)	11 (10,16)
NA Inter-Quartile Range	10 to 14	10 to 13	10 to 13	10 to 14	10 to 13
Complete data (%)	102 (92.7)	72 (75.0)	26 (83.9)	25 (100.0)	19 (90.5)
Completely missing data (%)	5 (4.5)	22 (22.9)	4 (12.9)	0 (0.0)	0 (0.0)
Partially missing data (%)	3 (2.7)	2 (2.1)	1 (3.2)	0 (0.0)	2 (9.5)