Psychological safety in students' clinical learning environment - thematic analysis of openended questions and DREEM questionnaire assessment

Constantine Ezeme^{1,2}, Ebere Ugwu¹, Oluwafunmilayo Soneye¹, Nurudeen Akinbami¹, Naomi Olagunju¹, Olanrewaju Amusat^{1,3}, Jesse Tanko¹, Habeeb Ogundipe¹, Olukayode Abayomi^{1,4}, Kenneth Onah¹, Hyginus Ekwuazi¹, Hari Akachuku¹, Olumide Farinre¹, Moshood Adeyemo¹, Adebanji Adeyoju⁵, Eme Owoaje⁶, Olufunso Adebola Adedeji⁷

1 University College Hospital, Ibadan, Nigeria
2 Sheffield Teaching Hospitals NHS Foundation Trust, Shefield, United Kingdom
3 Luton and Dunstable University Hospital, Luton, United Kingdom
4 Victoria Hospital, Kirkcaldy, Scotland, United Kingdom
5 Stockport Hospital, Stockport, United Kingdom
6 College of Medicine University of Ibadan, Ibadan, Nigeria
7 University Hospital of North Durham, Durham, United Kingdom

Supplement 1

Frequency distribution and mean values (Std Dev) of individual DREEM guestions

Statement	Strongly agree n (%)	Agree	Uncertain	Disagree	Strongly disagree	MEAN ±SD
	Students'			hing		
I am encouraged to participate in teaching sessions	41(21.6)	102(53.7)	33(17.4)	13(6.8)	1(0.5)	2.11 ±0.83
The teaching is often stimulating	23(12.0)	107(56.0)	42(22.0)	17(8.9)	2(1.0)	2.31±0.836
The teaching is student-centered	24(12.4)	100(51.8)	51(26.6)	16(8.3)	1(0.5)	2.32±0.819
The teaching helps to develop my competence	39(20.3)	104(54.2)	38(19.8)	9(4.7)	2(1.0)	2.12±0.819
The teaching is well focused	22(11.4)	117(60.6)	45(23.3)	5(2.6)	4(2.1)	2.23±0.765
The teaching helps to develop my confidence	24(12.4)	86(44.6)	54(28.0)	25(13.0)	4(2.1)	2.48±0.941
The teaching is put to good use	21(10.9)	108(56.0)	45(23.3)	17(8.8)	2(1.0)	2.33±0.825
The teaching emphasizes factual learning	1(0.6)	27(14.9)	56(30.9)	75(41.4)	22(12.2)	3.50±0.911
I am clear about the learning objectives of the course	21(0.9)	120(62.5)	33(17.2)	16(8.3)	2(1.0)	2.26±0.802
The teaching encourages me to be an active learner	22(11.6)	118(62.1)	33(17.4)	14(7.4)	3(1.6)	2.25±0.816
Long-term learning is emphasized over learning	28(15.1)	87(47.0)	48(25.9)	20(10.8)	2(1.1)	2.36±0.904
The teaching is too teacher-centered	7(3.7)	77(41.2)	59(31.6)	36(18.7)	8(4.1)	2.79±0.941
	Students'	percepti	on of teac	hers		
The teachers are knowledgeable	103(53.4)	86(44.6)	3(1.6)	1(0.5)	0(0.0)	1.49±0.560
The teachers are patients with patients	35(18.4)	93(48.9)	39(20.5)	22(11.6)	1(0.5)	2.27±0.912
The teachers ridicule the students	8(4.2)	48(25.1)	50(26.2)	57(29.8)	28(14.7)	3.26±1.116
The teachers are authoritarian	3(1.6)	51(26.8)	49(25.8)	65(34.2)	22(11.6)	3.27±1.033
The teachers have good communication skills with patients	25(13.2)	136(71.6)	21(11.1)	7(3.7)	1(0.5)	2.07±0.659
The teachers are good at providing feedback to students	18(9.6)	83(44.1)	47(24.2)	29(15.3)	2(1.1)	2.60±0.963
The teachers provide constructive criticism here	17(8.9)	96(50.5)	46(24.2)	29(15.3)	2(1.1)	2.49±0.895
The teachers give clear examples	32(16.8)	123(64.4)	28(14.7)	8(4.2)	0(0.0)	2.06±0.693
The teachers get angry in teaching sessions	15(7.9)	72(38.13)	38(20.6)	56(29.6)	7(3.7)	2.83±1.058
The teachers are well prepared for their teaching session	43(22.8)	122(64.6)	20(10.6)	4(2.1)	0(0.0)	1.92±0.643
The students irritate the teachers	8(4.2)	44(22.8)	72(37.9)	58(30.5)	8(4.2)	3.07±0.934

Statement	Strongly agree n(%)	Agree	Uncertain	Disagree	Strongly disagree	MEAN ±SD
	Students'					
Learning strategies that work for me before continue to work for me now	14(7.4)	77(40.5)	42(22.1)	51(26.8)	6(3.2)	2.78±1.025
I am confident about my passing exams	46(24.3)	96(50.8)	36(19.0)	10(5.3)	1(0.5)	2.07±0.832
this year	04/40.0)	00(40.0)	40(0.4.0)	10(0.5)	0(4.4)	0.00.0.004
I feel I am well being well-prepared for my profession	31(16.3)	93(48.9)	46(24.2)	18(9.5)	2(1.1)	2.30±0.891
Last year's work has been good	21(11.0)	99(51.8)	52(27.2)	14(7.3)	5(2.6)	2.39±0.875
preparation for this year work	0(2.4)	40/00 0)	70/20 0)	F0(20.0)	44/5.0)	2.44.0.022
I am able to memorize all I need	6(3.1)	42(22.0)	73(38.2)	59(30.9)	11(5.8)	3.14±0.932
I have learnt a lot about empathy in my profession	41(21.4)	108(56.3)	29(15.1)	12(6.3)	2(1.1)	2.09±0.839
My problem-solving skills are being well developed here	34(18.0)	110(58.2)	34(18.0)	9(4.8)	2(1.1)	2.13±0.795
Much of what I have to learn seems relevant to a career in medicine	63(33.2)	103(54.2)	15(7.9)	8(4.2)	1(0.5)	1.85±0.779
	Students' Po	arcontion o	of the atmo	cnhoro	·	
The atmosphere is relaxed during ward	15(7.9)	55(29.1)	45(23.8)	62(32.8)	12(6.3)	2.64±0.982
teaching	15(7.9)	55(29.1)	45(23.8)	62(32.8)	12(0.3)	2.04±0.982
The teaching is well timetabled	17(9.0)	52(27.5)	45(23.8)	61(32.3)	14(7.4)	3.02±1.123
Teaching is a problem in this placement	30(16.7)	64(35.6)	30(16.7)	33(18.3)	23(12.8)	2.75±1.290
The atmosphere is relaxed during lectures	18(9.6)	77(41.2)	52(27.8)	35(18.7)	5(2.7)	2.64±0.982
There are opportunities for me to develop interpersonal skills	30(15.9)	103(54.5)	37(19.6)	17(9.0)	2(1.1)	2.25±0.867
I feel comfortable in teaching sessions socially	21(11.2)	82(43.6)	54(28.7)	29(15.4)	2(1.1)	2.52±0.922
The atmosphere is relaxed during seminars/tutorials	23(12.2)	98(51.9)	44(23.3)	19(10.1)	5(2.6)	2.39±0.920
I find the experience disappointing	24(12.8)	90(48.1)	46(24.6)	22(11.8)	5(2.7)	2.43±0.950
I am able to concentrate well	17(9.0)	87(46.3)	56(29.8)	25(13.3)	3(1.6)	2.52±0.892
The enjoyment outweighs the stress of studying medicine	8(4.3)	27(14.4)	37(19.7)	77(41.0)	39(20.7)	3.60±1.098
The atmosphere motivates me as a learner	19(10.2)	69(36.9)	60(32.1)	31(16.6)	8(4.3)	2.68±1.007
I feel able to ask the questions I want	22(11.6)	86(45.5)	46(24.3)	30(15.9)	5(2.6)	2.52±0.982
	Student	ts' social se	lf-percepti	on		
There is a good support system for students who get stressed	9(4.7)	27(14.1)	39(20.4)	85(44.5)	31(16.2)	3.53±1.070
I am too tired to enjoy the course	8(4.2)	58(30.5)	61(32.1)	48(25.3)	15(7.9)	3.02±1.023
I am rarely bored on this course	6(3.1)	47(24.6)	57(29.8)	69(36.1)	12(6.3)	3.18±0.979
I have good friends in my group	44(23.0)	123(64.4)	16(8.4)	8(4.2)	0(0.0)	1.94±0.693
My social life is good	12(6.3)	65(33.7)	56(29.5)	42(22.1)	15(7.9)	2.91±1.063
I seldom feel lonely	23(12.2)	64(33.9)	37(19.6)	47(24.9)	18(9.5)	2.86±1.201
My accommodation is pleasant				1		
iviy accommodation is pleasant	19(10.1)	81(42.9)	37(19.6)	38(19.7)	14(7.4)	2.72±1.121