

Supplementary Table 2: Univariate analysis results for UK candidates attempting the Part 1 FRCOphth exam for the 1<sup>st</sup> time

Group	Factor	Category	Percent passing	N doctors in sample – UKMED rounding rules applied.	Bivariate Association.	
					Bonferroni correction applied for 13 tests	
Training factors	Training programme at time exam taken	No training record	30.53%	130	X <sup>2</sup> = 34.463 P < 0.001	
		Foundation	42.99%	215		
		Other specialty inc. GP	27.27%	10		
		Ophthalmology	64.54%	140		
Demographics	Sex	Man	52.31%	280	X <sup>2</sup> = 11.575. P = 0.009	
		Woman	36.57%	215		
	Ethnicity	Asian or Asian British	39.8%	215	X <sup>2</sup> = 17.281 P = 0.052	
		Black or Black British	23.5%	15		
		Mixed	40.9%	20		
		Other Ethnic Groups	34.2%	40		
		White	56.2%	195		
	HESA Disability last	No record (missing and Not stated)	50.0%	10	Cells counts too low to meet expected frequency criterion.	
		A long-standing illness or health	66.67%	6		
		A physical impairment or mobility issues	100.00%	1		
		Another disability, impairment or	25.00%	4		
		No known disability	45.71%	455		
	HESA Disability summary	Specific learning difficulty	40.00%	30	X <sup>2</sup> = 0.003. P = 1	
		Missing	0.00%	1		
	IMD Quintile	HESA Disability summary	No	45.7%	455	X <sup>2</sup> = 3.942 P = 1
			Yes	43.9%	40	
		1 - Most deprived	2	52.4%	65	
3			47.4%	75		
4			45.9%	100		
5 - Least deprived			47.2%	125		
Missing	37.8%	100				
POLAR quintile	1 - Lowest rate of participation	31.58%	20			

Group	Factor	Category	Percent passing	N doctors in sample – UKMED	Bivariate Association.
		2	42.42%	35	X <sup>2</sup> = 7.582 P = 1
		3	50.85%	60	
		4	54.00%	100	
		5 - Highest rate of participation	45.21%	190	
		Missing	37.8%	100	
	SEC Combined	1 semi-routine and routine occupations	46.15%	40	X <sup>2</sup> = 2.738a P = 1
		2 lower supervisory and technical	50.00%	5	
		3 small employers and own account	33.33%	10	
		4 intermediate occupations	37.50%	30	
		5 managerial and professional	47.58%	330	
		99 Missing	41.25%	80	
	Graduate on entry	Graduate on entry	37.3%	75	X <sup>2</sup> = 5.043 P = 1
		Not graduate on entry	47.3%	420	
	Bursary	N			N too low to report
		Y			
	Parental education – cases with HESA data only	No	28.9%	40	X <sup>2</sup> = 3.521a P = 1
		Yes	41.7%	190	
		Don't know	41.7%	10	
		Unknown	41.3%	75	
	Age at 1st attempt	Mean age – passed	27.3319	225	F = 0.0133353068885761
Mean age -failed		27.3616	270	P = 1	
Medical school	Course type grouped	Standard entry	46.4%	435	X <sup>2</sup> = 4.111a 0.250
		Graduate entry	44.7%	45	
		Gateway and Preliminary	20.0%	15	
		Missing	50.0%	0	
	Intercalation	No record of intercalating	45.0%	360	X <sup>2</sup> = 0.086 P = 1
		Record of intercalating	53.0%	135	
	Final Medical School	Aberdeen	33.3%	6	N too low to test
		Barts	44.0%	25	
		Birmingham	43.5%	23	

Group	Factor	Category	Percent passing	N doctors in sample – UKMED	Bivariate Association.
		Brighton and Sussex	37.5%	8	
		Bristol	35.7%	14	
		Cambridge	84.0%	25	
		Cardiff	50.0%	12	
		Dundee	40.0%	10	
		Edinburgh	70.0%	10	
		Glasgow	41.7%	12	
		Hull York	50.0%	4	
		Imperial	42.6%	47	
		Keele	28.6%	7	
		King's	21.7%	23	
		Lancaster	0%	1	
		Leeds	17.6%	17	
		Leicester	50.0%	10	
		Liverpool	20.0%	10	
		Manchester	25.0%	28	
		Newcastle	57.1%	21	
		Norwich	40.0%	5	
		Nottingham	53.3%	15	
		Oxford	84.6%	26	
		Peninsula	21.1%	19	
		Queen's	33.3%	6	
		Sheffield	42.9%	14	
		Southampton	43.8%	16	
		St George's	37.5%	32	
		Swansea	25.0%	4	
		UCL	69.8%	43	
		Warwick	0.0%	4	