Supplementary Table 1: Univariate analysis results for UK OST applicants

Group	Factor	Category	Percent offered place on OST training programme	N doctors in sample – UKMED rounding rules applied.	Bivariate Association. Bonferroni correction applied for 18 tests
	Exam relative to application	FRCOphth_Part_1 NOT taken before OST App	27.1%	760	$X^2 = 62.534$
		FRCOphth_Part_1 taken before OST App	56.4%	210	P < 0.0001
		2 year	38.7%	955	
	TIME from PMQ to first	3 year	41.0%	210	$X^2 = 6.597$
	OST application	4 or more years	29.6%	190	P =0.665
	Only applied to OST	Applied to multiple specialties	30.8%	785	X ² = 38.501
Applicant Behaviour		Only applied to OST	47.5%	565	P < 0.001
Applicant Benavious	ORIEL Year for 1st application	2012	55.8%	215	
		2013	40.0%	165	1
		2014	32.3%	190	1
		2015	35.7%	195	1
		2016	33.9%	220	X ² =
		2017	31.0%	195	39.020
		2018	34.3%	165	P < 0.0001
Demographics	Sex	Man	36.6%	760	$X^2 = 0.925$
		Woman	39.3%	590	P= 1
	Ethnicity	No record	55.0%	20	
		Asian or Asian British	35.1%	595	
		Black or Black British	29.2%	70	
		Mixed	36.7%	50	
		Not stated	38.9%	20	
		Other Ethnic Groups	29.1%	110	$X^2 = 17.576$
		White	43.7%	485	P= 0.133
	HESA Disability last	No record	52.9%	15	Cells counts too

Group	Factor	Category	Percent offered place on OST training programme	N doctors in sample – UKMED rounding rules applied.	Bivariate Association. Bonferroni correction applied for 18 tests
		A long-standing illness or health condition	63.6%	10	low to meet
		Another disability, impairment or medical condition	100.0%	0	expected frequency
		Deaf or a serious hearing impairment	30.8%	15	criterion.
		No known disability		0	
		Not known		0	
		Specific learning difficulty	33.3%	5	
		Two or more conditions	38.0%	1200	
		No	33.3%	10	
	HESA Disability summary	Yes	31.2%	95	$X^2 = 1.638$
		Missing	32.8%	265	P= 1
		Missing	31.8%	130	
		1 - Most deprived	37.0%	190	
	IMD Quintile	2	39.3%	180	
	IIVID Quintile	3	38.2%	240	
		4	43.2%	345	X ² =9.378
		5 - Least deprived	32.8%	265	P= 1
		Missing	31.3%	65	
		1 - Lowest rate of participation	36.4%	105	X ² = 3.610
	POLAR quintile	2	36.4%	175	
		3	39.1%	255	
		4	41.4%	490	
		5 - Highest rate of participation	33.0%	100	P= 1
		1 semi-routine and routine occupations	35.3%	15	
		2 lower supervisory and technical occupations	26.5%	35	
	SEC Combined	3 small employers and own account workers	34.3%	105	
	SEC COMBINED	4 intermediate occupations	39.6%	830	
		5 managerial and professional occupations	36.9%	270	$X^2 = 4.676$
		99 Missing	38.7%	955	P= 1
	Graduate on entry	No HESA record	40.9%	20	$X^2 = 1.905$
	Graduate on entry	Graduate on entry	33.8%	225	P= 1

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		Not graduate on entry	38.6%	1105	
	Bursary	N	38.2%	1330	$X^2 = 6.082$
	Бигзагу	Υ	9.5%	20	P= 0.246
	Parental education –	No	29.7%	35	
	cases with HESA data	Yes	31.1%	105	1
	only	Don't know	31.5%	180	$X^2 = 2.767$
		Unknown	37.0%	420	P= 1
	Age on application	Mean age - not offered	27.3853	840	F = 10.989
		Mean age - offered	26.7867	510	P = 0.017
		Standard entry	38.6%	1150	
	Course type grouped	Graduate entry	35.4%	125]
		Gateway and Preliminary	22.4%	50	$X^2 = 6.486$
		Missing	47.8%	25	P=1
	Intercalation	No record of intercalating	36.2%	995	$X^2 = 2.859$
	Intercalation	Record of intercalating	41.6%	340	P=1
		Aberdeen	21.1%	20	
	Final Medical School	Barts	34.2%	80	
		Birmingham	40.3%	65	
		Brighton and Sussex	42.1%	20]
		Bristol	46.3%	40	
		Cambridge	65.9%	40	
		Cardiff	25.6%	40	$X^2 = 83.491$
		Dundee	29.7%	35	P=0.001
		Edinburgh	39.5%	40	
		Glasgow	25.0%	40	
		Hull York	15.8%	20	London and
		Imperial	52.9%	105	Lancaster
		Keele	23.1%	15	removed due to
Medical school		King's	36.8%	85	low Ns

Group	Factor	Category	Percent offered place on OST training programme	N doctors in sample – UKMED rounding rules applied.	Bivariate Association. Bonferroni correction applied for 18 tests
		Leeds	43.6%	40	
		Leicester	31.7%	40	
		Liverpool	25.0%	35	
		Manchester	31.1%	75	
		Newcastle	33.3%	50	
		Norwich	30.4%	25	
		Nottingham	40.0%	40	
		Oxford	62.8%	45	
		Peninsula	32.5%	40	
		Queen's	20.7%	30	
		Sheffield	34.4%	30	
		Southampton	23.8%	40	
		St George's	30.3%	90	
		Swansea	14.3%	5	
		UCL	55.6%	100	1
		Warwick	23.5%	15	