

Supplementary Table S1. Inter-circuit comparison of OSCE station scores

Station / domain	df (between)	df (within)	F	P
A.Abdo	6	150	21.868	<0.001
A.CN1-7	6	150	13.123	<0.001
A.Derm	6	150	11.708	<0.001
A.Psych.Hist	6	150	0.841	0.540
A.Resp	6	150	9.661	<0.001
CH.P.CVS	6	150	5.309	<0.001
CH.P.Hist	6	150	22.269	<0.001
CH.P.LLMotor	6	150	19.724	<0.001
Eth.Prof	6	150	20.476	<0.001
OBG.GynCouns	6	150	16.761	<0.001
OBG.GynModel.Pap	6	150	18.279	<0.001
OBG.ObsHist	6	150	14.912	<0.001
Surg.Hern.I	6	150	6.886	<0.001
Surg.Short.LB	6	150	20.257	<0.001
Surg.Tech.NG	6	150	4.600	<0.001
Surg.Thyroid	6	150	7.582	<0.001
Surg DF	3	62	9.331	<0.001
Surg.Vasc.VI	3	87	5.773	0.001
TOTAL	6	150	2.216	0.045

Supplementary Table S2. Significant Bonferroni-adjusted pairwise circuit comparisons by OSCE station

Station/domain	Circuit comparison	#Mean difference	*Bonferroni adjusted p	95% CI
A.Abdo	A vs B	17.88	<0.001	6.52 to 29.24
A.CN1-7	A vs B	-19.51	<0.001	-31.61 to -7.42
A.Derm	A vs D	-15.60	.003	-27.97 to -3.22
A.Derm	B vs C	17.77	<0.001	5.40 to 30.15
A.Derm	B vs E	14.92	.006	2.54 to 27.29
A.Derm	B vs G	22.28	<0.001	9.27 to 35.29
A.Derm	C vs D	-23.75	<0.001	-36.13 to -11.37
A.Derm	D vs E	20.90	<0.001	8.52 to 33.27
A.Derm	D vs F	14.46	.009	2.08 to 26.83
A.Derm	D vs G	28.26	<0.001	15.25 to 41.27
A.Derm	F vs G	13.80	.027	0.79 to 26.81
A.Resp	A vs B	11.75	.018	1.09 to 22.41
A.Resp	B vs D	-12.98	.005	-23.64 to -2.32
A.Resp	B vs E	-20.88	<0.001	-31.54 to -10.23
A.Resp	B vs F	-10.80	.044	-21.46 to -0.15
A.Resp	B vs G	-17.44	<0.001	-28.64 to -6.24
A.Resp	C vs D	-11.37	.026	-22.03 to -0.71
A.Resp	C vs E	-19.28	<0.001	-29.93 to -8.62
A.Resp	C vs G	-15.83	<0.001	-27.04 to -4.63
CH.P.CVS	C vs G	14.81	.028	0.80 to 28.82
CH.P.CVS	D vs E	15.22	.012	1.89 to 28.54
CH.P.CVS	D vs G	22.06	<0.001	8.05 to 36.07
CH.P.CVS	F vs G	17.21	.004	3.20 to 31.22
CH.P.Hist	A vs C	17.83	<0.001	5.95 to 29.71
CH.P.Hist	A vs D	21.83	<0.001	9.95 to 33.71

CH.P.Hist	A vs F	-12.85	.022	-24.73 to -0.97
CH.P.Hist	B vs C	24.55	<0.001	12.67 to 36.43
CH.P.Hist	B vs D	28.55	<0.001	16.67 to 40.43
CH.P.Hist	B vs G	17.40	.001	4.91 to 29.89
CH.P.Hist	C vs E	-18.97	<0.001	-30.85 to -7.09
CH.P.Hist	C vs F	-30.68	<0.001	-42.56 to -18.80
CH.P.Hist	D vs E	-22.97	<0.001	-34.85 to -11.09
CH.P.Hist	D vs F	-34.67	<0.001	-46.55 to -22.79
CH.P.Hist	F vs G	23.53	<0.001	11.04 to 36.02
CH.P.LLMotor	A vs C	23.74	<0.001	11.53 to 35.96
CH.P.LLMotor	A vs D	35.78	<0.001	23.57 to 48.00
CH.P.LLMotor	A vs F	14.06	.011	1.85 to 26.27
CH.P.LLMotor	A vs G	17.42	.001	4.58 to 30.26
CH.P.LLMotor	B vs C	16.77	.001	4.56 to 28.98
CH.P.LLMotor	B vs D	28.81	<0.001	16.60 to 41.02
CH.P.LLMotor	C vs E	-19.79	<0.001	-32.00 to -7.58
CH.P.LLMotor	D vs E	-31.83	<0.001	-44.04 to -19.62
CH.P.LLMotor	D vs F	-21.73	<0.001	-33.94 to -9.51
CH.P.LLMotor	D vs G	-18.36	<0.001	-31.20 to -5.52
CH.P.LLMotor	E vs G	13.47	.031	0.63 to 26.31
Eth.Prof	A vs D	-20.94	<0.001	-35.16 to -6.72
Eth.Prof	A vs F	25.60	<0.001	11.38 to 39.83
Eth.Prof	B vs E	16.64	.009	2.42 to 30.86
Eth.Prof	B vs F	33.89	<0.001	19.67 to 48.11
Eth.Prof	B vs G	16.01	.025	1.06 to 30.96
Eth.Prof	C vs D	-16.01	.014	-30.24 to -1.79
Eth.Prof	C vs F	30.53	<0.001	16.31 to 44.75
Eth.Prof	D vs E	29.30	<0.001	15.08 to 43.52
Eth.Prof	D vs F	46.55	<0.001	32.32 to 60.77

Eth.Prof	D vs G	28.67	<0.001	13.72 to 43.62
Eth.Prof	E vs F	17.25	.005	3.02 to 31.47
Eth.Prof	F vs G	-17.88	.006	-32.83 to -2.92
OBG.GynCouns	A vs B	21.70	<0.001	8.59 to 34.81
OBG.GynCouns	A vs D	14.91	.012	1.79 to 28.02
OBG.GynCouns	A vs F	30.67	<0.001	17.55 to 43.78
OBG.GynCouns	A vs G	23.67	<0.001	9.88 to 37.45
OBG.GynCouns	B vs E	-24.65	<0.001	-37.76 to -11.54
OBG.GynCouns	C vs E	-14.36	.019	-27.48 to -1.25
OBG.GynCouns	C vs F	19.25	<0.001	6.14 to 32.37
OBG.GynCouns	D vs E	-17.86	.001	-30.97 to -4.74
OBG.GynCouns	D vs F	15.76	.006	2.65 to 28.87
OBG.GynCouns	E vs F	33.62	<0.001	20.51 to 46.73
OBG.GynCouns	E vs G	26.62	<0.001	12.83 to 40.40
OBG.GynModel.Pap	A vs B	22.90	<0.001	9.33 to 36.47
OBG.GynModel.Pap	A vs C	30.12	<0.001	16.55 to 43.69
OBG.GynModel.Pap	A vs D	20.27	<0.001	6.70 to 33.84
OBG.GynModel.Pap	A vs F	32.12	<0.001	18.55 to 45.69
OBG.GynModel.Pap	A vs G	29.92	<0.001	15.66 to 44.19
OBG.GynModel.Pap	B vs E	-20.81	<0.001	-34.38 to -7.24
OBG.GynModel.Pap	C vs E	-28.03	<0.001	-41.60 to -14.46
OBG.GynModel.Pap	D vs E	-18.17	.001	-31.74 to -4.60
OBG.GynModel.Pap	E vs F	30.02	<0.001	16.46 to 43.59
OBG.GynModel.Pap	E vs G	27.83	<0.001	13.56 to 42.10
OBG.ObsHist	A vs C	-15.07	.011	-28.22 to -1.92
OBG.ObsHist	A vs G	-20.32	<0.001	-34.14 to -6.50
OBG.ObsHist	B vs C	-20.18	<0.001	-33.32 to -7.03
OBG.ObsHist	B vs D	-16.45	.003	-29.60 to -3.30
OBG.ObsHist	B vs E	-17.93	.001	-31.07 to -4.78

OBG.ObsHist	B vs G	-25.42	<0.001	-39.25 to -11.60
OBG.ObsHist	C vs F	27.08	<0.001	13.93 to 40.23
OBG.ObsHist	D vs F	23.35	<0.001	10.20 to 36.50
OBG.ObsHist	E vs F	24.83	<0.001	11.68 to 37.97
OBG.ObsHist	F vs G	-32.32	<0.001	-46.15 to -18.50
Surg.Hern.I	A vs D	23.31	<0.001	9.65 to 36.96
Surg.Hern.I	A vs E	18.17	.001	4.51 to 31.82
Surg.Hern.I	B vs D	17.42	.003	3.76 to 31.07
Surg.Hern.I	C vs D	19.38	<0.001	5.72 to 33.04
Surg.Hern.I	C vs E	14.24	.033	0.59 to 27.90
Surg.Hern.I	D vs G	-15.96	.016	-30.32 to -1.61
Surg.Short.LB	B vs C	-12.59	.015	-23.85 to -1.33
Surg.Short.LB	B vs F	-17.41	<0.001	-28.67 to -6.14
Surg.Short.LB	B vs G	-28.77	<0.001	-40.61 to -16.93
Surg.Short.LB	C vs D	21.30	<0.001	10.04 to 32.56
Surg.Short.LB	C vs G	-16.18	.001	-28.02 to -4.34
Surg.Short.LB	D vs E	-15.26	.001	-26.52 to -4.00
Surg.Short.LB	D vs F	-26.12	<0.001	-37.38 to -14.86
Surg.Short.LB	D vs G	-37.48	<0.001	-49.32 to -25.64
Surg.Short.LB	E vs G	-22.21	<0.001	-34.05 to -10.37
Surg.Tech.NG	A vs F	-14.56	.035	-28.61 to -0.50
Surg.Tech.NG	B vs F	-21.00	<0.001	-35.06 to -6.95
Surg.Tech.NG	D vs F	-18.05	.002	-32.11 to -4.00
Surg.Tech.NG	F vs G	19.08	.002	4.31 to 33.86
Surg.Thyroid	A vs G	-13.46	.009	-25.03 to -1.89
Surg.Thyroid	B vs C	14.58	.001	3.58 to 25.59
Surg.Thyroid	B vs E	14.97	.001	3.96 to 25.97
Surg.Thyroid	C vs G	-19.21	<0.001	-30.78 to -7.64
Surg.Thyroid	E vs G	-19.59	<0.001	-31.16 to -8.02

Surg DF (circuits E–G)	E vs G	-20.03	<0.001	-30.67 to -9.39
Surg DF (circuits E–G)	F vs G	-20.22	<0.001	-30.86 to -9.58
Surg.Vasc.VI (circuits A–D)	A vs B	12.38	0.004	2.99 to 21.78
Surg.Vasc.VI (circuits A–D)	B vs C	-10.94	0.014	-20.33 to -1.54
TOTAL	A vs F	6.39	.046	0.05 to 12.73

**Shown are statistically significant ($p < 0.05$) Bonferroni-adjusted post-hoc comparisons from one-way ANOVA across circuits (A–G). #Mean difference is reported as (first circuit – second circuit).*