Results

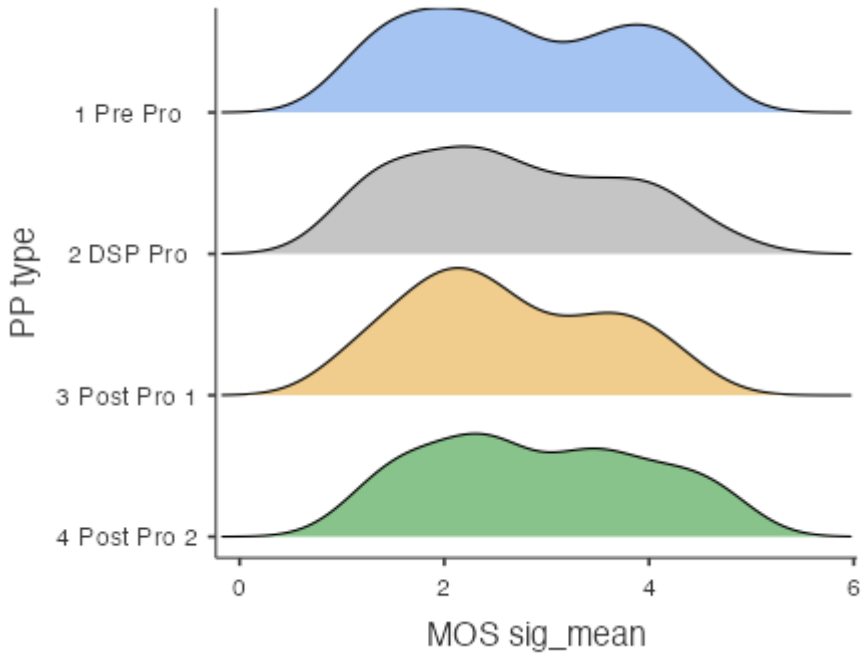
Descriptives

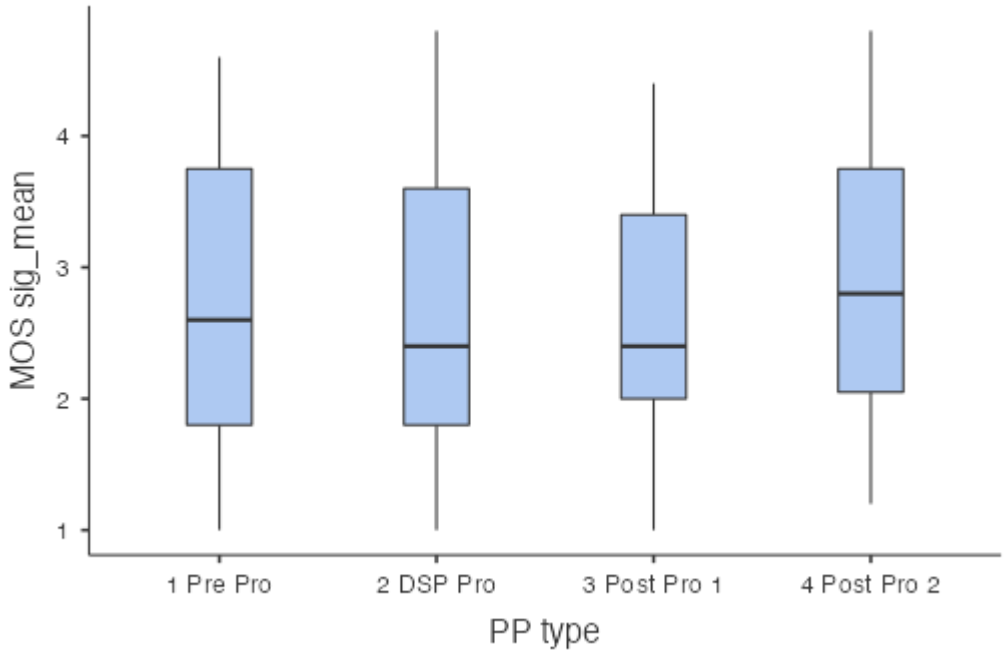
Descriptives

	PP type	Mean
MOS sig_mean	1 Pre Pro	2.74
	2 DSP Pro	2.65
	3 Post Pro 1	2.60
	4 Post Pro 2	2.92
MOS bak_mean	1 Pre Pro	3.64
	2 DSP Pro	2.83
	3 Post Pro 1	3.61
	4 Post Pro 2	3.62
MOS ovl_mean	1 Pre Pro	2.74
	2 DSP Pro	2.46
	3 Post Pro 1	2.63
	4 Post Pro 2	2.85

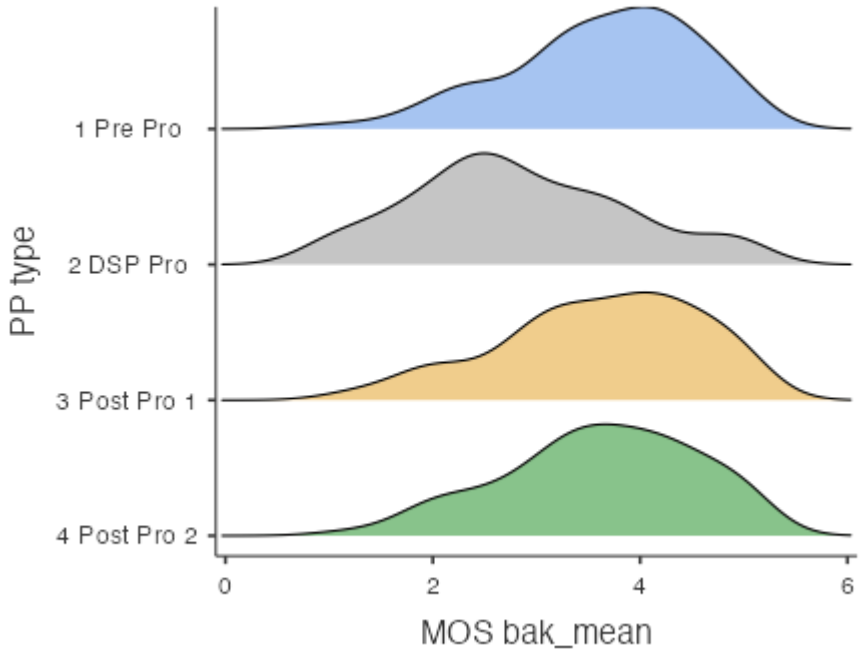
Plots

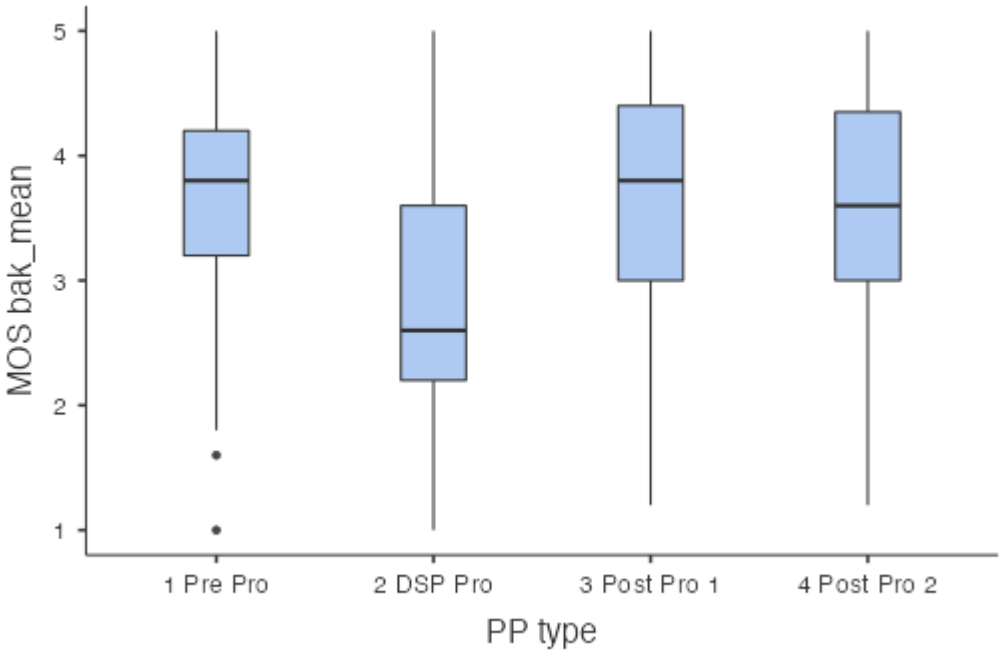
MOS sig_mean



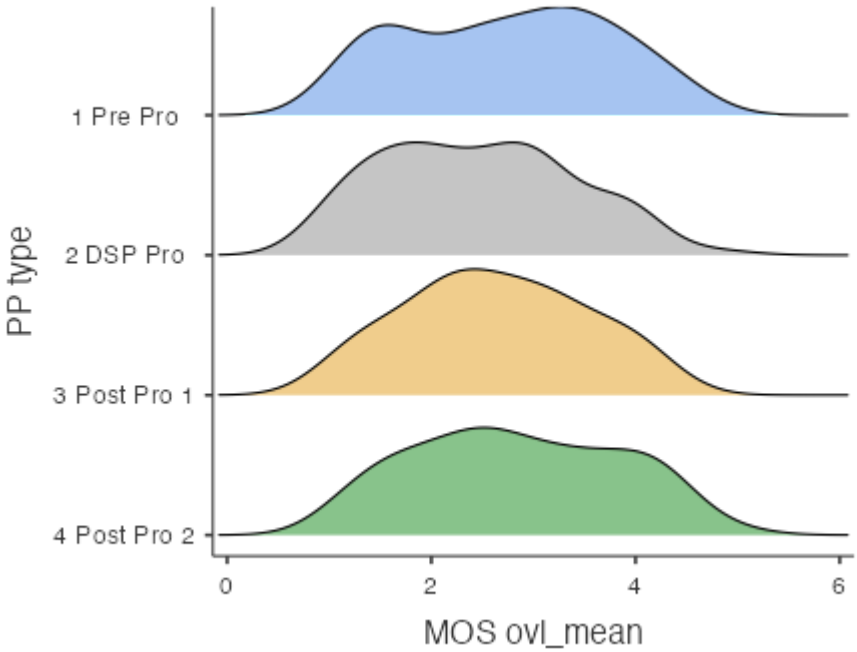

MOS sig_mean
4
3
2
1
1 Pre Pro
2 DSP Pro
3 Post Pro 1
4 Post Pro 2
PP type

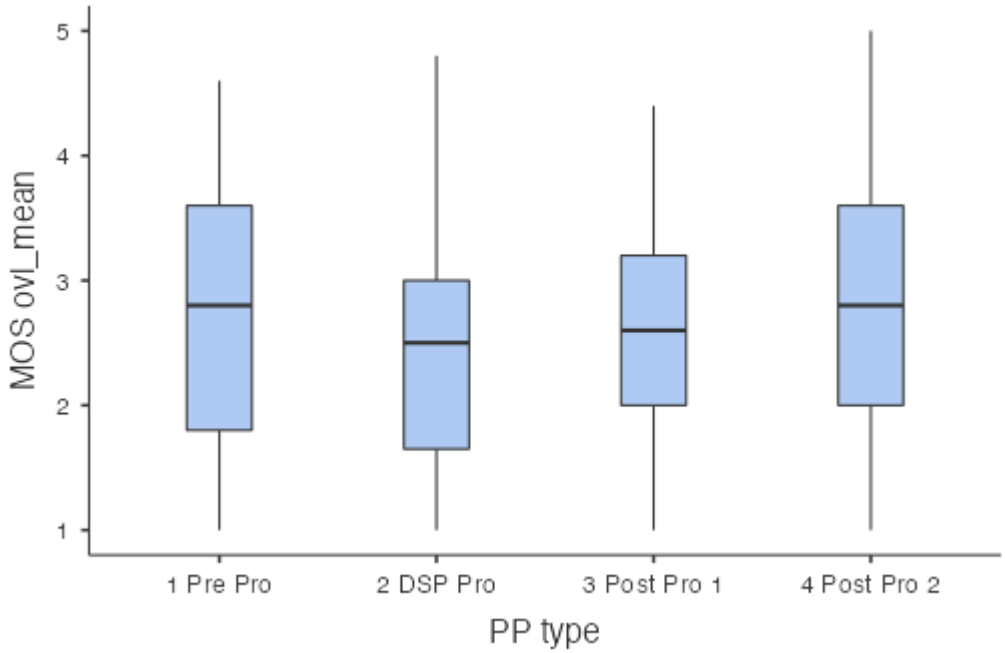
MOS bak_mean


PP type
1 Pre Pro
2 DSP Pro
3 Post Pro 1
4 Post Pro 2
0
2
4
6
MOS bak_mean

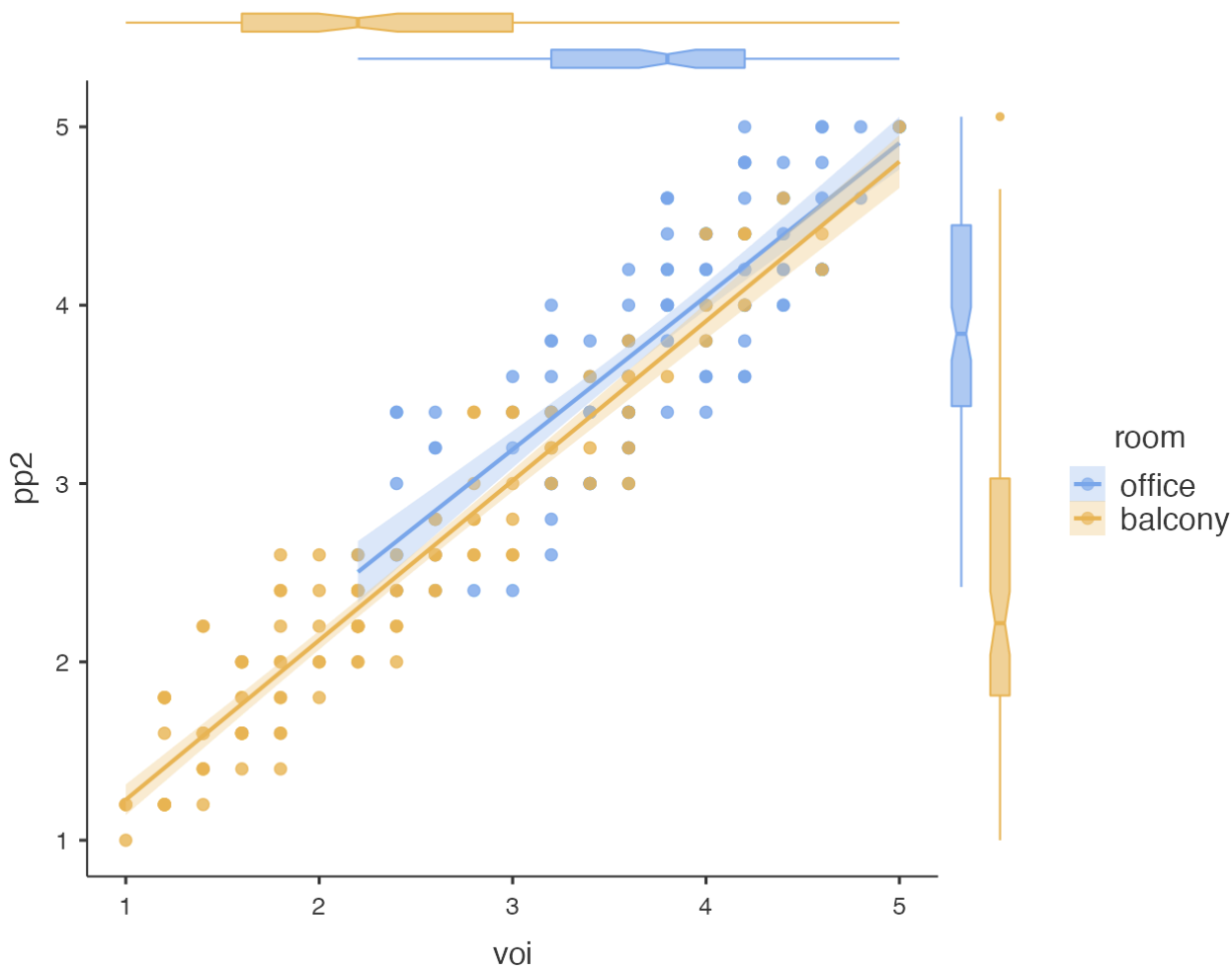

MOS bak_mean
5
4
3
2
1
1 Pre Pro
2 DSP Pro
3 Post Pro 1
4 Post Pro 2
PP type

MOS ovl_mean


PP type
1 Pre Pro
2 DSP Pro
3 Post Pro 1
4 Post Pro 2
0
2
4
6
MOS ovl_mean



Scatterplot



Correlation Matrix

Correlation Matrix

		pp1	pp2	ffm	voi	G5birth	G5expertise
pp1	Pearson's r	—					
	df	—					
	p-value	—					
pp2	Pearson's r	0.942 ***	—				
	df	232	—				
	p-value	<.001	—				
ffm	Pearson's r	0.804 ***	0.844 ***	—			
	df	232	232	—			
	p-value	<.001	<.001	—			
voi	Pearson's r	0.943 ***	0.949 ***	0.810 ***	—		
	df	232	232	232	—		
	p-value	<.001	<.001	<.001	—		
G5birth	Pearson's r	0.389 *	0.265	0.388 *	0.414 **	—	
	df	37	37	37	37	—	
	p-value	0.014	0.103	0.015	0.009	—	
G5expertise	Pearson's r	-0.144	-0.164	-0.289	-0.158	0.055	—
	df	37	37	37	37	37	—
	p-value	0.383	0.317	0.074	0.338	0.741	—

Note. * p < .05, ** p < .01, *** p < .001

ANOVA

ANOVA - MOS sig_mean

	Sum of Squares	df	Mean Square	F	p	η^2p
PP type	4.46	3	1.488	3.355	0.019	0.032
room1	195.54	1	195.542	440.917	<.001	0.592
PP type ✻ room1	1.12	3	0.373	0.841	0.473	0.008
Residuals	134.82	304	0.443			

[3]

General Linear Model

Model Info

Info	
Estimate	Linear model fit by OLS
Call	MOS sig_mean ~ 1 + `PP type` + room1 + `PP type`:room1
R-squared	0.599
Adj. R-squared	0.589

[4]

Model Results

ANOVA Omnibus tests

	SS	df	F	p	η^2p
Model	201.12	7	64.786	<.001	0.599
PP type	4.46	3	3.355	0.019	0.032
room1	195.54	1	440.917	<.001	0.592
PP type ✻ room1	1.12	3	0.841	0.473	0.008
Residuals	134.82	304			
Total	335.94	311			

Fixed Effects Parameter Estimates

				95% Confidence Interval					
Names	Effect	Estimate	SE	Lower	Upper	β	df	t	p
(Intercept)	(Intercept)	2.72628	0.0377	2.6521	2.8005	0.00000	304	72.3114	<.001
PP type1	2 DSP Pro - 1 Pre Pro	-0.08974	0.1066	-0.2996	0.1201	-0.08635	304	-0.8416	0.401
PP type2	3 Post Pro 1 - 1 Pre Pro	-0.13590	0.1066	-0.3457	0.0739	-0.13075	304	-1.2744	0.203
PP type3	4 Post Pro 2 - 1 Pre Pro	0.17692	0.1066	-0.0329	0.3868	0.17023	304	1.6591	0.098
room11	2 office - 1 balcony	1.58333	0.0754	1.4350	1.7317	1.52342	304	20.9980	<.001
PP type1 ✻ room11	2 DSP Pro - 1 Pre Pro ✻ 2 office - 1 balcony	-0.15897	0.2133	-0.5787	0.2607	-0.15296	304	-0.7454	0.457
PP type2 ✻ room11	3 Post Pro 1 - 1 Pre Pro ✻ 2 office - 1 balcony	-0.28205	0.2133	-0.7017	0.1376	-0.27138	304	-1.3225	0.187
PP type3 ✻ room11	4 Post Pro 2 - 1 Pre Pro ✻ 2 office - 1 balcony	0.00513	0.2133	-0.4146	0.4248	0.00493	304	0.0240	0.981

Post Hoc Tests

Post Hoc Comparisons - PP type

Comparison							
PP type		PP type	Difference	SE	t	df	p_{tukey}
1 Pre Pro	-	2 DSP Pro	0.0897	0.107	0.842	304	0.835
1 Pre Pro	-	3 Post Pro 1	0.1359	0.107	1.274	304	0.580
1 Pre Pro	-	4 Post Pro 2	-0.1769	0.107	-1.659	304	0.347
2 DSP Pro	-	3 Post Pro 1	0.0462	0.107	0.433	304	0.973
2 DSP Pro	-	4 Post Pro 2	-0.2667	0.107	-2.501	304	0.062
3 Post Pro 1	-	4 Post Pro 2	-0.3128	0.107	-2.934	304	0.019

Post Hoc Comparisons - room1

Comparison							
room1		room1	Difference	SE	t	df	p_{tukey}
1 balcony	-	2 office	-1.58	0.0754	-21.0	304	<.001

General Linear Model

Model Info

Info	
Estimate	Linear model fit by OLS
Call	MOS bak_mean ~ 1 + `PP type` + room1 + `PP type`:room1
R-squared	0.286
Adj. R-squared	0.270

[4]

Model Results

ANOVA Omnibus tests

	SS	df	F	p	η^2p
Model	90.32	7	17.415	<.001	0.286
PP type	36.61	3	16.473	<.001	0.140
room1	52.68	1	71.101	<.001	0.190
PP type ✻ room1	1.03	3	0.463	0.709	0.005
Residuals	225.23	304			
Total	315.54	311			

Fixed Effects Parameter Estimates

				95% Confidence Interval					
Names	Effect	Estimate	SE	Lower	Upper	β	df	t	p
(Intercept)	(Intercept)	3.4237	0.0487	3.328	3.520	0.0000	304	70.259	<.001
PP type1	2 DSP Pro - 1 Pre Pro	-0.8103	0.1378	-1.081	-0.539	-0.8044	304	-5.879	<.001
PP type2	3 Post Pro 1 - 1 Pre Pro	-0.0333	0.1378	-0.305	0.238	-0.0331	304	-0.242	0.809
PP type3	4 Post Pro 2 - 1 Pre Pro	-0.0256	0.1378	-0.297	0.246	-0.0255	304	-0.186	0.853
room11	2 office - 1 balcony	0.8218	0.0975	0.630	1.014	0.8159	304	8.432	<.001
PP type1 ✻ room11	2 DSP Pro - 1 Pre Pro ✻ 2 office - 1 balcony	-0.2769	0.2757	-0.819	0.266	-0.2749	304	-1.005	0.316
PP type2 ✻ room11	3 Post Pro 1 - 1 Pre Pro ✻ 2 office - 1 balcony	-0.0462	0.2757	-0.589	0.496	-0.0458	304	-0.167	0.867
PP type3 ✻ room11	4 Post Pro 2 - 1 Pre Pro ✻ 2 office - 1 balcony	-2.84e−16	0.2757	-0.542	0.542	-9.24e−16	304	-1.03e−15	1.000

Post Hoc Tests

Post Hoc Comparisons - PP type

Comparison							
PP type		PP type	Difference	SE	t	df	p_{tukey}
1 Pre Pro	-	2 DSP Pro	0.81026	0.138	5.8787	304	<.001
1 Pre Pro	-	3 Post Pro 1	0.03333	0.138	0.2418	304	0.995
1 Pre Pro	-	4 Post Pro 2	0.02564	0.138	0.1860	304	0.998
2 DSP Pro	-	3 Post Pro 1	-0.77692	0.138	-5.6369	304	<.001
2 DSP Pro	-	4 Post Pro 2	-0.78462	0.138	-5.6927	304	<.001
3 Post Pro 1	-	4 Post Pro 2	-0.00769	0.138	-0.0558	304	1.000

Post Hoc Comparisons - room1

Comparison							
room1		room1	Difference	SE	t	df	p_{tukey}
1 balcony	-	2 office	-0.822	0.0975	-8.43	304	<.001

General Linear Model

Model Info

Info	
Estimate	Linear model fit by OLS
Call	MOS ovl_mean ~ 1 + `PP type` + room1 + `PP type`:room1
R-squared	0.597
Adj. R-squared	0.588

[4]

Model Results

ANOVA Omnibus tests

	SS	df	F	p	η^2p
Model	172.04	7	64.29	<.001	0.597
PP type	6.45	3	5.62	<.001	0.053
room1	163.99	1	429.00	<.001	0.585
PP type ✻ room1	1.60	3	1.39	0.245	0.014
Residuals	116.21	304			
Total	288.25	311			

Fixed Effects Parameter Estimates

Names	Effect	Estimate	SE	95% Confidence Interval		β	df	t	p
				Lower	Upper				
(Intercept)	(Intercept)	2.669	0.0350	2.5997	2.7375	0.000	304	76.24	<.001
PP type1	2 DSP Pro - 1 Pre Pro	-0.282	0.0990	-0.4769	-0.0872	-0.293	304	-2.85	0.005
PP type2	3 Post Pro 1 - 1 Pre Pro	-0.105	0.0990	-0.2999	0.0897	-0.109	304	-1.06	0.289
PP type3	4 Post Pro 2 - 1 Pre Pro	0.108	0.0990	-0.0871	0.3025	0.112	304	1.09	0.278
room11	2 office - 1 balcony	1.450	0.0700	1.3122	1.5878	1.506	304	20.71	<.001
PP type1 ✻ room11	2 DSP Pro - 1 Pre Pro ✻ 2 office - 1 balcony	-0.236	0.1980	-0.6255	0.1537	-0.245	304	-1.19	0.234
PP type2 ✻ room11	3 Post Pro 1 - 1 Pre Pro ✻ 2 office - 1 balcony	-0.323	0.1980	-0.7127	0.0666	-0.336	304	-1.63	0.104
PP type3 ✻ room11	4 Post Pro 2 - 1 Pre Pro ✻ 2 office - 1 balcony	8.36e-16	0.1980	-0.3896	0.3896	-4.62e−16	304	4.22e-15	1.000

Post Hoc Tests

Post Hoc Comparisons - PP type

Comparison			Difference	SE	t	df	p_{tukey}
PP type		PP type					
1 Pre Pro	-	2 DSP Pro	0.282	0.0990	2.85	304	0.024
1 Pre Pro	-	3 Post Pro 1	0.105	0.0990	1.06	304	0.713
1 Pre Pro	-	4 Post Pro 2	-0.108	0.0990	-1.09	304	0.697
2 DSP Pro	-	3 Post Pro 1	-0.177	0.0990	-1.79	304	0.282
2 DSP Pro	-	4 Post Pro 2	-0.390	0.0990	-3.94	304	<.001
3 Post Pro 1	-	4 Post Pro 2	-0.213	0.0990	-2.15	304	0.140

Post Hoc Comparisons - room1

Comparison			Difference	SE	t	df	p_{tukey}
room1		room1					
1 balcony	-	2 office	-1.45	0.0700	-20.7	304	<.001

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[1] The jamovi project (2022). *jamovi*. (Version 2.3) [Computer Software]. Retrieved from https://www.jamovi.org.

[2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.1) [Computer software]. Retrieved from https://cran.r-project.org. (R packages retrieved from MRAN snapshot 2022-01-01).

[3] Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from https://cran.r-project.org/package=car.

[4] Gallucci, M. (2019). *GAMLj: General analyses for linear models*. [jamovi module]. Retrieved from https://gamlj.github.io/.