

Online Supplement B

Additional Analyses

For paper “Sexual Orientation Differences in Treatment Expectation, Alliance, and Outcome.

Findings from Patients at Risk for Suicide in a Public Psychiatric Hospital”

Content

1	Comments to Statistical Analysis.....	3
2	Treatment Outcome – Main Results for various SM Dimensions	4
2.1	Change of Suicide Ideation and Dimensions of Sexual Orientation	4
2.2	Change of Hopelessness and Dimensions of Sexual Orientation.....	10
2.3	Change of Depression and Dimensions of Sexual Orientation	16
3	Alternative measures of Treatment Outcome.....	22
3.1	Reliable Change Index.....	22
3.1.1	Suicide Ideation.....	22
3.1.2	Depression.....	23
3.1.3	Hopelessness	24
4	Treatment Expectancy – Main Results for various SM Dimensions	25
4.1	Sexual Identity and Treatment Expectancy	25
4.2	Sexual Identity (clarified) and Treatment Expectancy	26
4.3	Sexual Behavior and Treatment Expectancy.....	28
4.4	Sexual Attraction and Treatment Expectancy	29
5	Working Alliance – Main Results for various SM Dimensions.....	31
5.1	Sexual Identity and Working Alliance	31
5.2	Sexual Identity (clarified) and Working Alliance	32
5.3	Sexual Behavior and Working Alliance	34
5.4	Sexual Attraction and Working Alliance.....	35
6	Intention to treat analysis	37
6.1	Rates of completion and sexual orientation measures.....	38
6.2	Differences in the intake assessment (completers vs. noncompleters).....	40
6.3	Interaction completion of discharge assessment × sexual orientation.....	42
7	Gender differences for main outcome variables	45
7.1	Treatment Outcome	45
7.2	Treatment expectancy.....	48
7.3	Working alliance.....	49

1 Comments to Statistical Analysis

These supplemental statistical results are carried out with R 3.1.3 using additional packages such as “psych” and “rms” (for some descriptive tabulation), ggplot2 (for interaction plots), BayesFactor (for Bayesian analysis), and foreign (for importing SPSS files).

For Bayesian analysis, Bayes factors (BF) were calculated for the ANOVAs with R’s BayesFactor package (Morey and Rouder 2015).

BF < 1 means that the data are more likely under H_0 (grand mean only) than H_1 (sexual orientation effect). We used the qualitative interpretation of the BF according to Jeffreys (from Jarosz and Wiley 2014).

<i>Support for H_0 over H_1</i>	<i>Support for H_1 over H_0</i>	<i>Interpretation of Evidence</i>
1 – 0.33	1 – 3	Anecdotal
.33 – .10	3 – 10	Substantial
.10 – .03	10 – 30	Strong
.03 – .01	30 – 100	Very strong
<.01	>100	Decisive

For the Bayesian One-Way ANOVAS, parameters of posterior distributions are calculated with sexual orientation as predictor variable. “mu” is the grand mean, and posteriors of the deviations from the grand mean for each categorical predictor level are given (mean, SD, quantiles) in the tables.

All statistically significant ($p < .05$) or, for Bayesian ANOVA analysis, posterior credible intervals of differences from the grand mean not covering zero are highlighted in yellow.

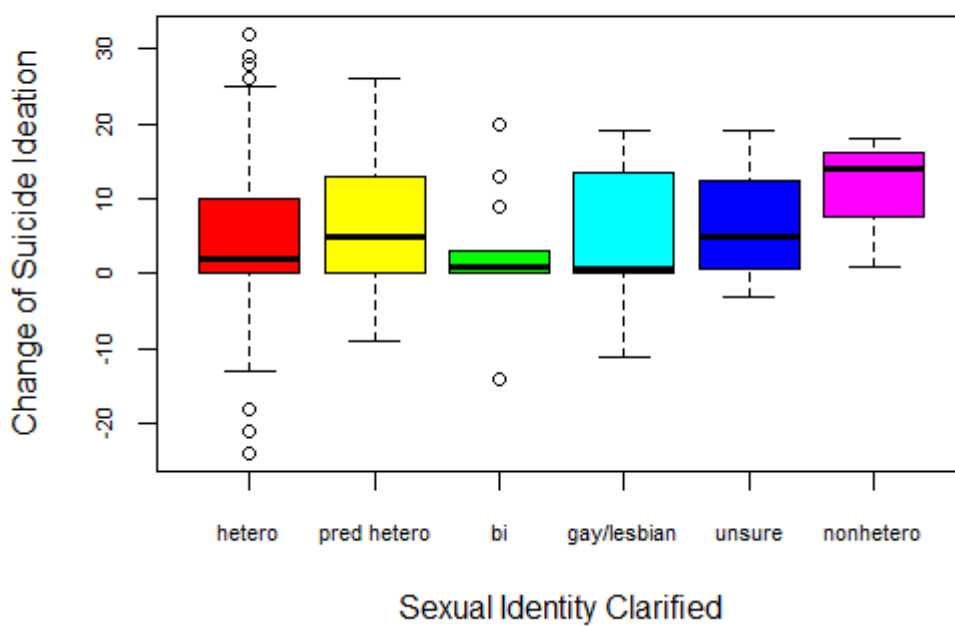
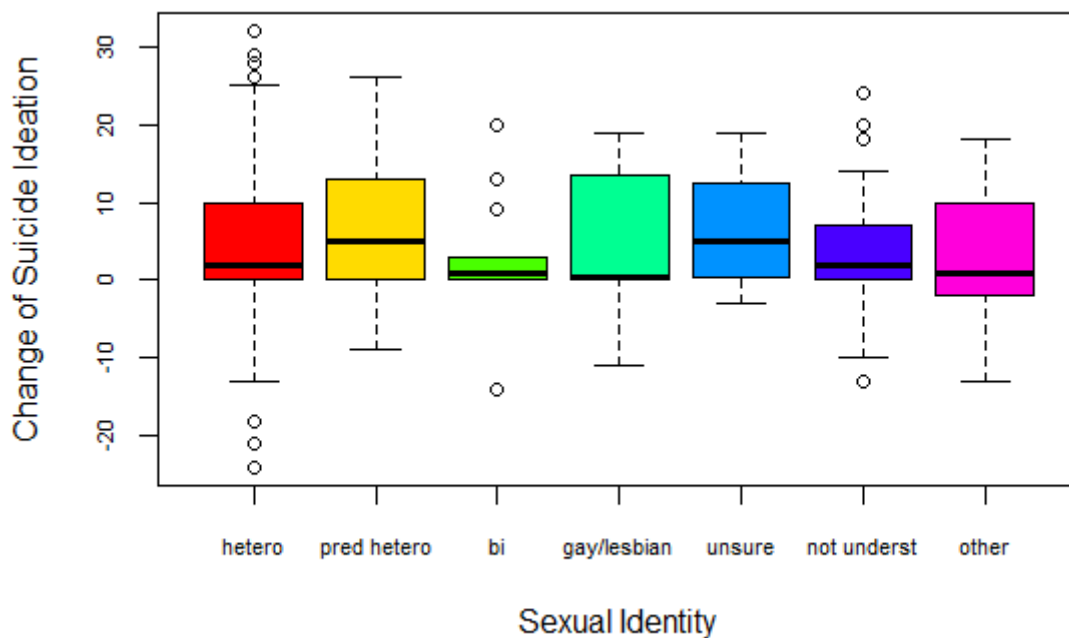
Jarosz, A. F. and J. Wiley. 2014. “What are the odds? A practical guide to computing and reporting Bayes factors.” *The Journal of Problem Solving* 7(1): 2.

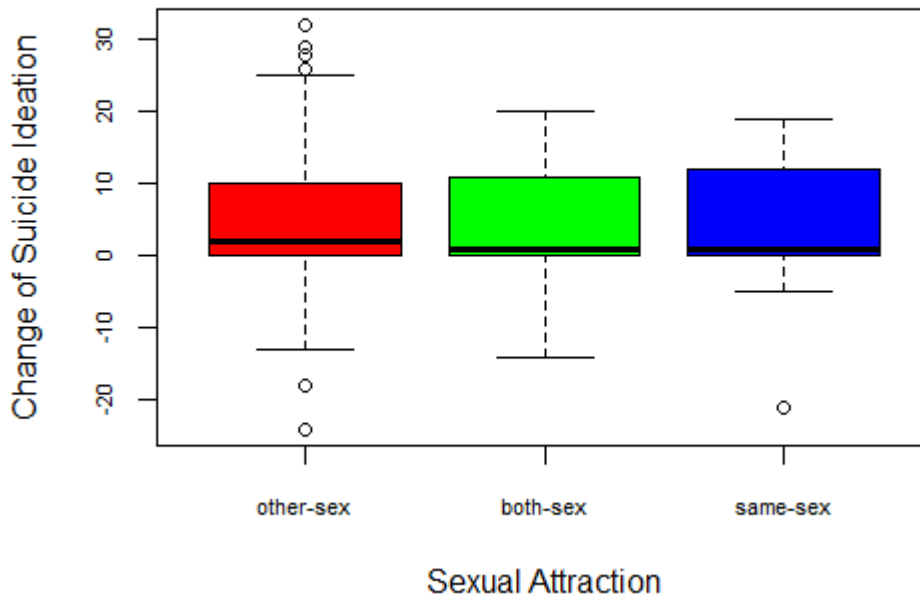
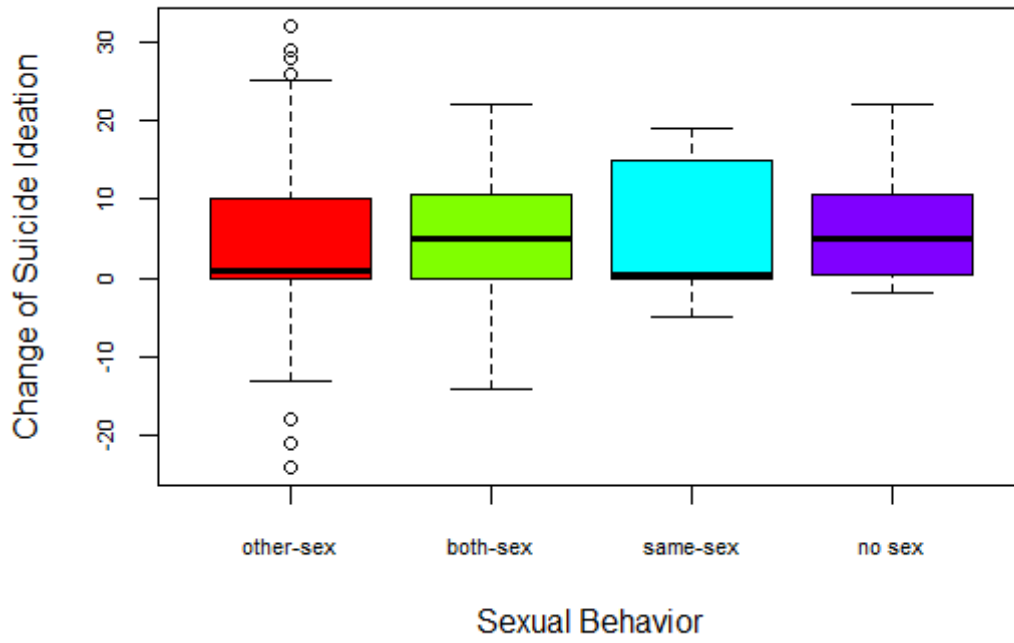
Morey, R. D. and J. N. Rouder. 2015. *BayesFactor: Computation of Bayes Factors for Common Designs*. R package version 0.9.12-2 (release).

1.1 Treatment Outcome – Main Results for various SM Dimensions

1.2 Change of Suicide Ideation and Dimensions of Sexual Orientation

Boxplots





Linear Regression, with heterosexuals as baseline

Identity

Residuals:

Min	1Q	Median	3Q	Max
-28.930	-4.931	-2.930	5.069	27.070

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	4.9305	0.3521	14.005	<2e-16 ***
identity pred hetero	1.4267	1.2518	1.140	0.255
identity bi	-2.3590	2.1102	-1.118	0.264
identity same-sex	0.2570	1.9779	0.130	0.897
identity unsure	1.8195	1.9779	0.920	0.358
identity not underst	-1.1500	1.2658	-0.909	0.364
identity other	-2.0638	2.0407	-1.011	0.312

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.785 on 626 degrees of freedom

Multiple R-squared: 0.008753, Adjusted R-squared: -0.0007479

F-statistic: 0.9213 on 6 and 626 DF, p-value: 0.4789

Identity clarified

Residuals:

Min	1Q	Median	3Q	Max
-28.753	-4.753	-2.753	5.247	27.247

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	4.7528	0.3341	14.226	<2e-16 ***
id.cl-pred hetero	1.6044	1.2458	1.288	0.198
id.cl-bi	-2.1813	2.1054	-1.036	0.301
id.cl-same-sex	0.4347	1.9730	0.220	0.826
id.cl-unsure	1.9972	1.9730	1.012	0.312
id.cl-nonhetero	6.2472	4.5030	1.387	0.166

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.778 on 627 degrees of freedom

Multiple R-squared: 0.009002, Adjusted R-squared: 0.001099

F-statistic: 1.139 on 5 and 627 DF, p-value: 0.3383

Behavior

Residuals:

Min	1Q	Median	3Q	Max
-28.754	-4.754	-3.471	5.246	27.246

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	4.7538	0.3391	14.018	<2e-16 ***
behavior bi	0.7168	1.0040	0.714	0.476
behavior same-sex	0.2462	3.1992	0.077	0.939
behavior no sex	1.4075	1.4400	0.977	0.329

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.792 on 629 degrees of freedom

Multiple R-squared: 0.002163, Adjusted R-squared: -0.002596

F-statistic: 0.4545 on 3 and 629 DF, p-value: 0.7142

Attraction

Residuals:

Min	1Q	Median	3Q	Max
-28.927	-4.927	-2.927	5.073	27.073

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	4.9266	0.3259	15.119	<2e-16 ***
attract bi	0.1057	1.4372	0.074	0.941
attract same-sex	-0.6266	1.4597	-0.429	0.668

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.793 on 630 degrees of freedom

Multiple R-squared: 0.0003068, Adjusted R-squared: -0.002867

F-statistic: 0.09668 on 2 and 630 DF, p-value: 0.9079

Bayesian One-Way-ANOVAs

Identity:	BF = 0.03 ±0.01% (Strong evidence for H ₀ over H ₁)
Identity clarified:	BF = 0.09 ±0% (Strong evidence for H ₀ over H ₁)
Behavior:	BF = 0.06 ±0% (Strong evidence for H ₀ over H ₁)
Attraction:	BF = 0.07 ±0.02% (Strong evidence for H ₀ over H ₁)
Any SM indicator:	BF = 0.13 ±0.02% (Substant. evidence for H ₀ over H ₁)

Identity:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	4.72296	0.57906	0.0057906	0.005791
identity -hetero	0.19873	0.63344	0.0063344	0.006334
identity -pred hetero	1.22698	1.02315	0.0102315	0.011105
identity -bi	-1.12213	1.39084	0.0139084	0.014313
identity -same-sex	0.24134	1.31824	0.0131824	0.013182
identity -unsure	1.14382	1.33059	0.0133059	0.013855
identity -not underst	-0.69899	1.02037	0.0102037	0.010501
identity -other	-0.98975	1.37090	0.0137090	0.014086
sig2	60.37443	3.40553	0.0340553	0.033540
g_identity	0.09988	0.08751	0.0008751	0.001038

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	3.59731	4.33097	4.71921	5.112016	5.8670
identity -hetero	-1.03622	-0.22863	0.20005	0.624706	1.4434
identity -pred hetero	-0.73941	0.53453	1.20370	1.909862	3.2900
identity -bi	-4.03396	-2.00730	-1.07014	-0.171673	1.4688
identity -same-sex	-2.31327	-0.64392	0.23735	1.096920	2.8506
identity -unsure	-1.37837	0.25081	1.09734	2.004868	3.9021
identity -not underst	-2.73963	-1.37796	-0.68166	-0.002539	1.2653
identity -other	-3.77547	-1.86059	-0.95878	-0.079020	1.6541
sig2	54.11050	58.00213	60.21626	62.527308	67.4957
g_identity	0.02599	0.05076	0.07508	0.117822	0.3

Identity clarified:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	5.5373	0.7724	0.007724	0.007874
id.cl-hetero	-0.7660	0.8071	0.008071	0.008208
id.cl-pred hetero	0.6389	1.0864	0.010864	0.011151
id.cl-bi	-1.7269	1.5304	0.015304	0.017613
id.cl-same-sex	-0.2235	1.3883	0.013883	0.013883
id.cl-unsure	0.7171	1.3738	0.013738	0.014305
id.cl-nonhetero	1.3604	2.1303	0.021303	0.024453
sig2	60.3981	3.4452	0.034452	0.035040
g_id.cl-	0.1396	0.1511	0.001511	0.001821

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	4.04332	5.01749	5.52815	6.0380	7.0721
id.cl-hetero	-2.39004	-1.29137	-0.75947	-0.2318	0.8126
id.cl-pred hetero	-1.50751	-0.07296	0.63853	1.3591	2.7941
id.cl-bi	-4.92400	-2.69844	-1.65362	-0.6855	1.1319
id.cl-same-sex	-2.98561	-1.11709	-0.22377	0.6814	2.4996
id.cl-unsure	-1.98539	-0.18708	0.70561	1.6115	3.4920
id.cl-nonhetero	-2.46841	-0.02363	1.20189	2.6151	6.0902
sig2	53.98324	58.03978	60.24893	62.6625	67.5258
g_id.cl-	0.02895	0.06101	0.09592	0.1638	0.4997

Behavior:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	5.3353	0.7256	0.007256	0.007256
behavior -hetero	-0.5723	0.7550	0.007550	0.007550
behavior -bi	0.1103	0.9018	0.009018	0.009018
behavior-same-sex	-0.1487	1.6538	0.016538	0.016538
behavior -no sex	0.6107	1.0857	0.010857	0.010857
sig2	60.6958	3.4161	0.034161	0.035237
g_behavior	0.1733	0.3281	0.003281	0.003340

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	3.9029	4.86109	5.3369	5.81008	6.7512
behavior -hetero	-2.0840	-1.07028	-0.5697	-0.07137	0.8854
behavior -bi	-1.6581	-0.47720	0.1105	0.70866	1.8677
behavior-same-sex	-3.5244	-1.18704	-0.1310	0.90061	3.1574
behavior -no sex	-1.4771	-0.11693	0.5964	1.33177	2.7665
sig2	54.2619	58.36828	60.6171	62.92022	67.6467
g_behavior	0.0279	0.06168	0.1013	0.18131	0.7320

Attraction

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

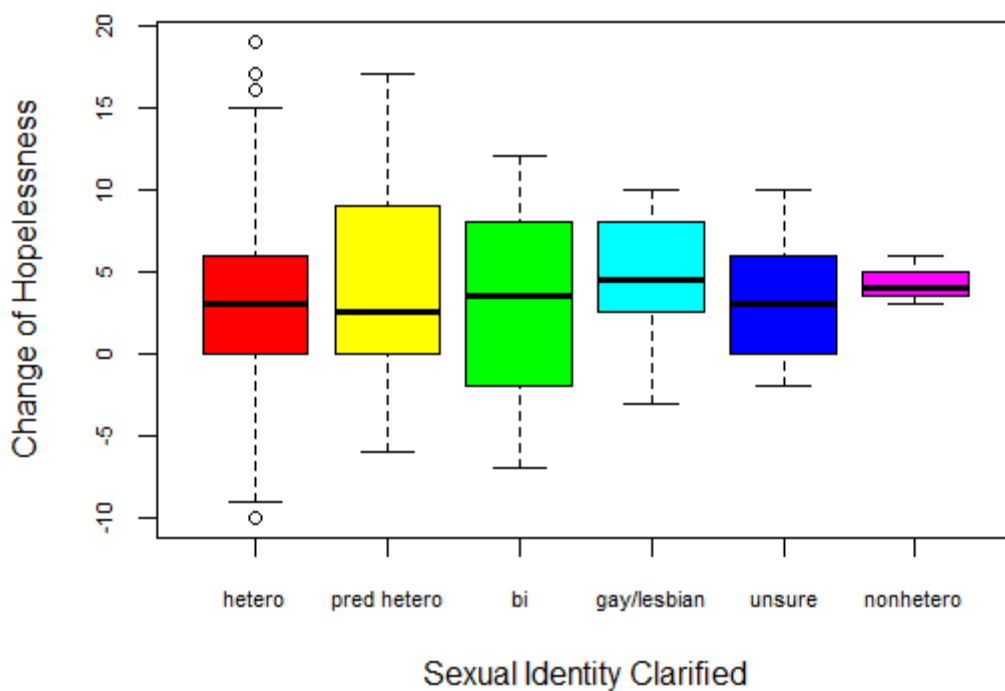
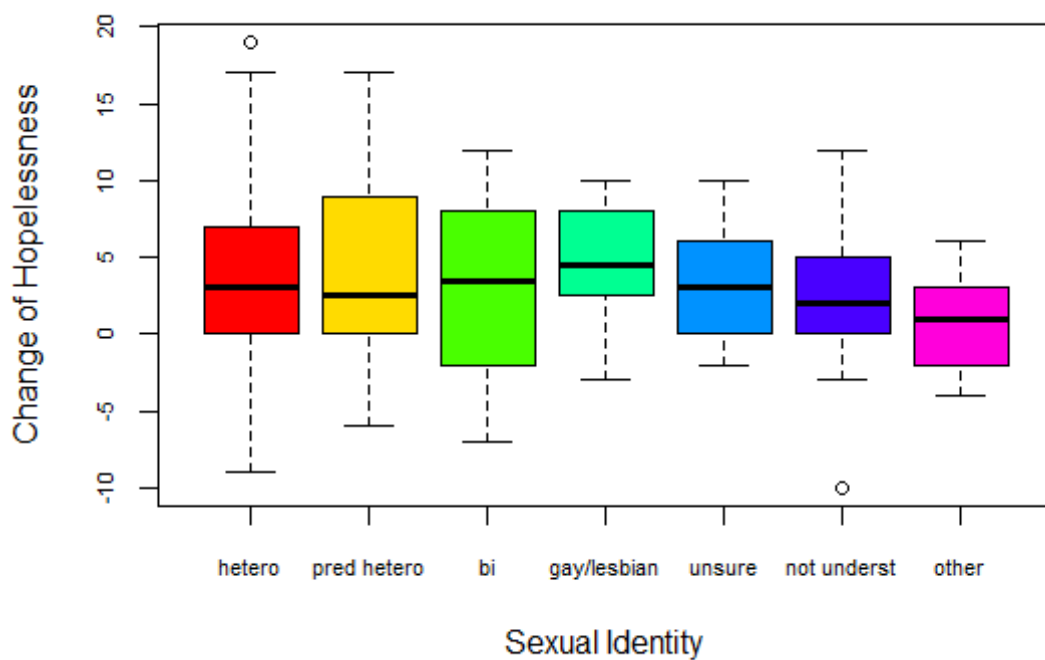
	Mean	SD	Naive SE	Time-series SE
mu	4.7663	0.6476	0.006476	0.006476
attract hetero	0.1540	0.6556	0.006556	0.006556
attract bi	0.1987	0.9275	0.009275	0.009280
attract same-sex	-0.3527	0.9320	0.009320	0.009187
sig2	60.7792	3.3999	0.033999	0.033999
g_attract	0.2774	1.0167	0.010167	0.010167

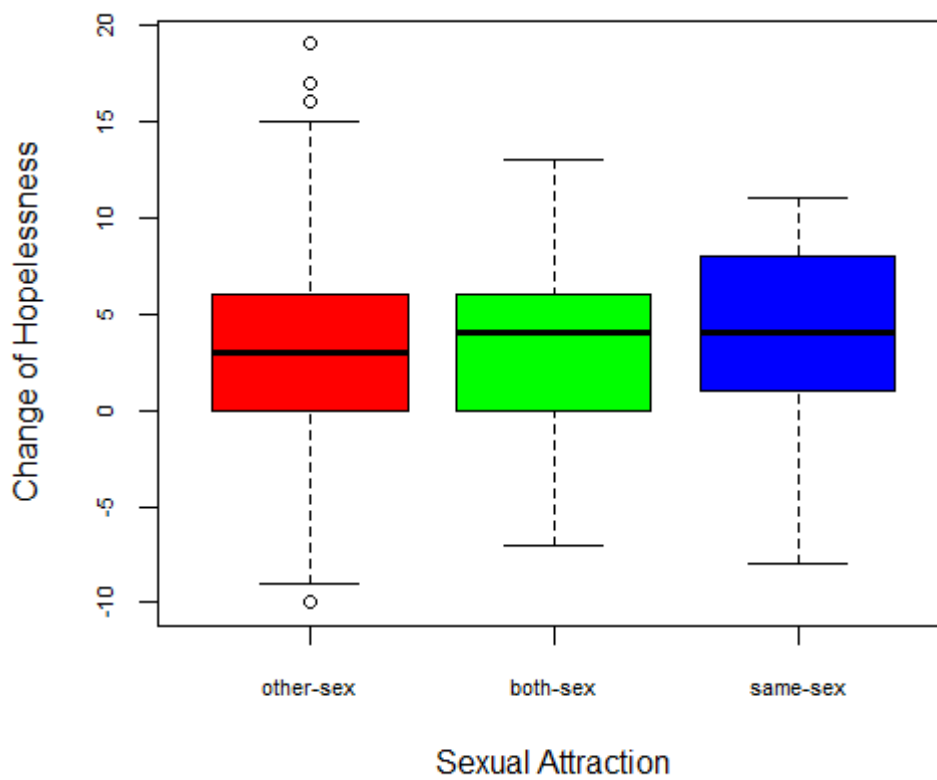
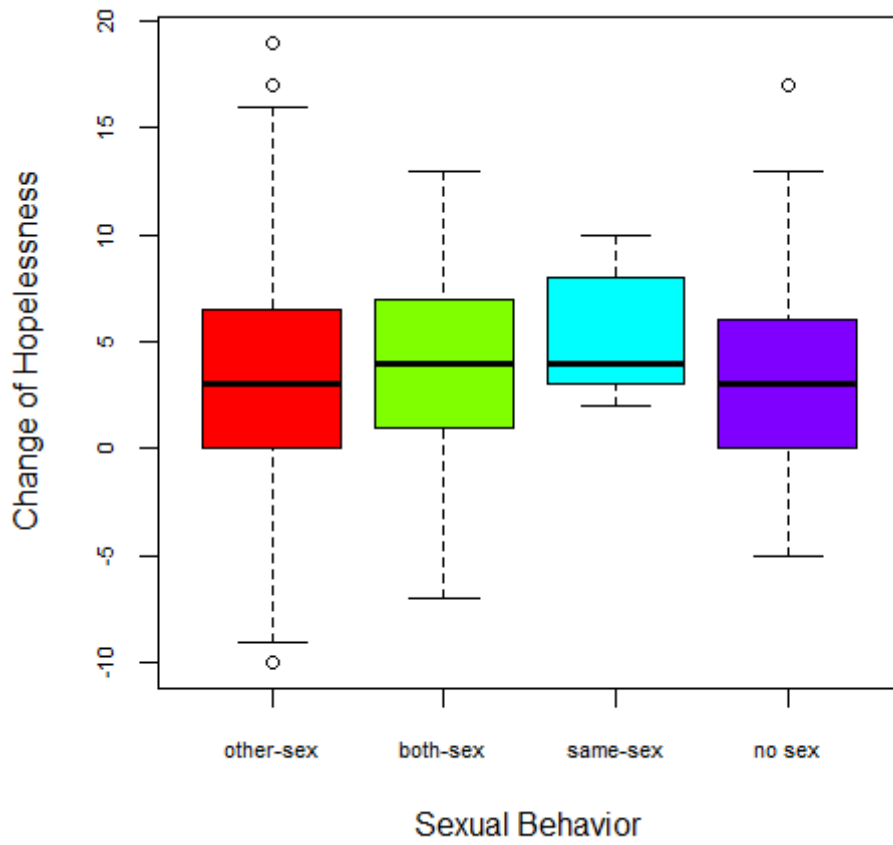
2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	3.47080	4.32766	4.7689	5.2048	6.036
attract hetero	-1.11628	-0.29414	0.1570	0.5987	1.455
attract bi	-1.59054	-0.41489	0.1932	0.8146	2.032
attract same-sex	-2.21485	-0.96303	-0.3512	0.2713	1.474
sig2	54.40704	58.45318	60.6201	62.9880	67.771
g_attract	0.02935	0.06912	0.1197	0.2363	1.360

1.3 Change of Hopelessness and Dimensions of Sexual Orientation

Boxplots





Linear Regression, with heterosexuals as baseline

Identity

Residuals:

Min	1Q	Median	3Q	Max
-28.930	-4.931	-2.930	5.069	27.070

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	4.9305	0.3521	14.005	<2e-16 ***
identity pred hetero	1.4267	1.2518	1.140	0.255
identity bi	-2.3590	2.1102	-1.118	0.264
identity same-sex	0.2570	1.9779	0.130	0.897
identity unsure	1.8195	1.9779	0.920	0.358
identity not underst	-1.1500	1.2658	-0.909	0.364
identity other	-2.0638	2.0407	-1.011	0.312

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.785 on 626 degrees of freedom

Multiple R-squared: 0.008753, Adjusted R-squared: -0.0007479

F-statistic: 0.9213 on 6 and 626 DF, p-value: 0.4789

Identity clarified

Residuals:

Min	1Q	Median	3Q	Max
-28.753	-4.753	-2.753	5.247	27.247

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	4.7528	0.3341	14.226	<2e-16 ***
id.cl-pred hetero	1.6044	1.2458	1.288	0.198
id.cl-bi	-2.1813	2.1054	-1.036	0.301
id.cl-same-sex	0.4347	1.9730	0.220	0.826
id.cl-unsure	1.9972	1.9730	1.012	0.312
id.cl-nonhetero	6.2472	4.5030	1.387	0.166

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.778 on 627 degrees of freedom

Multiple R-squared: 0.009002, Adjusted R-squared: 0.001099

F-statistic: 1.139 on 5 and 627 DF, p-value: 0.3383

Behavior

Residuals:

Min	1Q	Median	3Q	Max
-28.754	-4.754	-3.471	5.246	27.246

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	4.7538	0.3391	14.018	<2e-16 ***
behavior bi	0.7168	1.0040	0.714	0.476
behavior same-sex	0.2462	3.1992	0.077	0.939
behavior no sex	1.4075	1.4400	0.977	0.329

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.792 on 629 degrees of freedom

Multiple R-squared: 0.002163, Adjusted R-squared: -0.002596

F-statistic: 0.4545 on 3 and 629 DF, p-value: 0.7142

Attraction

Residuals:

Min	1Q	Median	3Q	Max
-28.927	-4.927	-2.927	5.073	27.073

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	4.9266	0.3259	15.119	<2e-16 ***
attract bi	0.1057	1.4372	0.074	0.941
attract same-sex	-0.6266	1.4597	-0.429	0.668

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.793 on 630 degrees of freedom

Multiple R-squared: 0.0003068, Adjusted R-squared: -0.002867

F-statistic: 0.09668 on 2 and 630 DF, p-value: 0.9079

Bayesian One-Way-ANOVA**Identity:** BF = 0.17 ±0.04% (Substantial evidence for H₀ over H₁)**Identity clarified:** BF = 0.04 ±0.01% (Strong evidence for H₀ over H₁)**Behavior:** BF = 0.04 ±0.01% (Strong evidence for H₀ over H₁)**Attraction:** BF = 0.07 ±0.02% (Strong evidence for H₀ over H₁)**Any SM-Indicator:** BF = 0.11 ±0.0% (Substantial evidence for H₀ over H₁)

Identity:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	3.21682	0.3613	0.003613	0.003675
identity -hetero	0.45601	0.3979	0.003979	0.003979
identity -pred hetero	0.84026	0.6396	0.006396	0.006617
identity -bi	-0.03253	0.8721	0.008721	0.008721
identity -same-sex	0.87959	0.8820	0.008820	0.009552
identity -unsure	-0.06741	0.8346	0.008346	0.008346
identity -not underst	-0.60926	0.6383	0.006383	0.006689
identity -other	-1.46665	0.9264	0.009264	0.010554
sig2	23.17969	1.2978	0.012978	0.012978
g_identity	0.12132	0.1270	0.001270	0.001447

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	2.50594	2.97411	3.21849	3.4654	3.9109
identity -hetero	-0.30749	0.18444	0.45033	0.7247	1.2365
identity -pred hetero	-0.39174	0.40010	0.83203	1.2742	2.0990
identity -bi	-1.77130	-0.61245	-0.02821	0.5461	1.6608
identity -same-sex	-0.78204	0.27822	0.84429	1.4526	2.7086
identity -unsure	-1.71633	-0.60834	-0.06054	0.4916	1.5429
identity -not underst	-1.87261	-1.03490	-0.60561	-0.1798	0.6466
identity -other	-3.39362	-2.06035	-1.42945	-0.8334	0.2439
sig2	20.76473	22.27998	23.14425	24.0478	25.8401
g_identity	0.02909	0.05835	0.08958	0.1426	0.3928

Identity clarified:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	3.7822	0.4612	0.004612	0.004787
id.cl-hetero	-0.2730	0.4786	0.004786	0.004895
id.cl-pred hetero	0.3951	0.6492	0.006492	0.006592
id.cl-bi	-0.3469	0.8629	0.008629	0.008841
id.cl-same-sex	0.5160	0.8374	0.008374	0.008571
id.cl-unsure	-0.4118	0.8387	0.008387	0.008484
id.cl-nonhetero	0.1206	1.1829	0.011829	0.011712
sig2	23.3921	1.3106	0.013106	0.013332
g_id.cl-	0.1147	0.1180	0.001180	0.001404

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	2.86981	3.47151	3.7834	4.09126	4.6897
id.cl-hetero	-1.20745	-0.59733	-0.2730	0.04867	0.6451
id.cl-pred hetero	-0.86681	-0.03652	0.3883	0.82713	1.7016
id.cl-bi	-2.15319	-0.90019	-0.3196	0.22523	1.2706
id.cl-same-sex	-1.09720	-0.04363	0.5062	1.06940	2.1788
id.cl-unsure	-2.10347	-0.95462	-0.3930	0.15137	1.2063
id.cl-nonhetero	-2.16412	-0.62689	0.1016	0.84796	2.5789
sig2	20.94122	22.49416	23.3573	24.24862	26.0933
g_id.cl-	0.02561	0.05238	0.0810	0.13562	0.4014

Behavior:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD Naive	SE	Time-series	SE
mu	3.8366	0.4548	0.004548		0.004587
behavior -hetero	-0.3034	0.4721	0.004721		0.004781
behavior -bi	-0.1166	0.5676	0.005676		0.005836
behavior -same-sex	0.5268	1.0463	0.010463		0.010991
behavior -no sex	-0.1068	0.6676	0.006676		0.006467
sig2	23.4501	1.3305	0.013305		0.013305
g_behavior	0.1689	0.2811	0.002811		0.002967

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	2.95443	3.53604	3.83262	4.129713	4.7710
behavior -hetero	-1.27048	-0.60792	-0.29053	0.009636	0.5992
behavior -bi	-1.27914	-0.48285	-0.10794	0.263930	0.9746
behav -same-sex	-1.43826	-0.17565	0.47361	1.179906	2.7755
behavior -no sex	-1.46143	-0.54448	-0.09491	0.332372	1.1939
sig2	21.00331	22.55008	23.40413	24.318864	26.2203
g_behavior	0.02786	0.06044	0.09917	0.179252	0.7204

Attraction:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

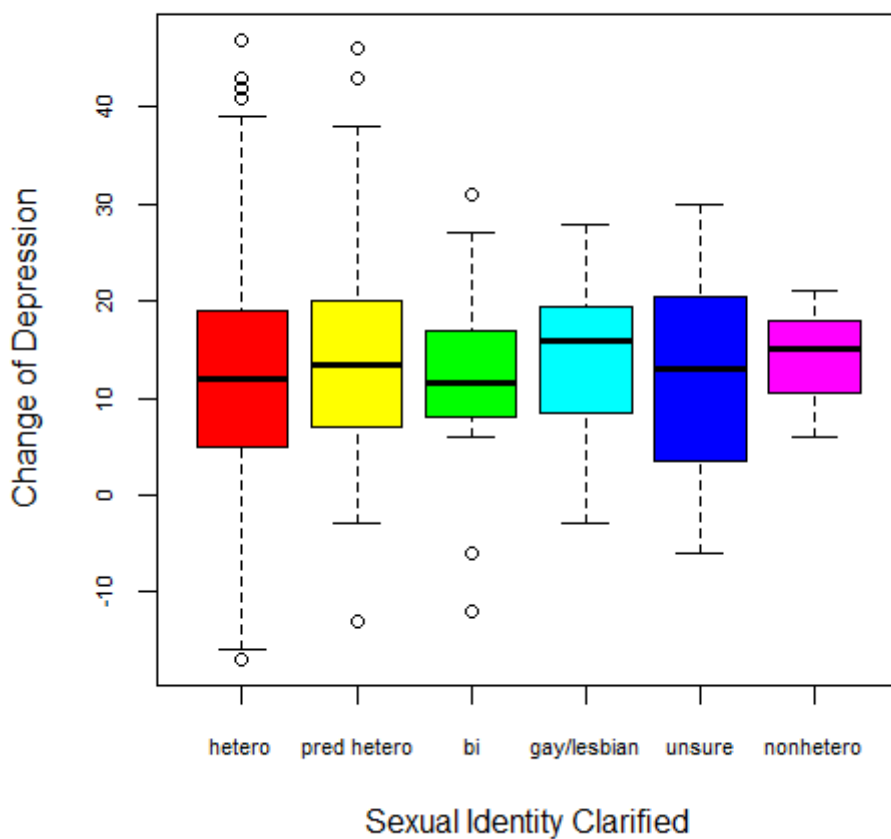
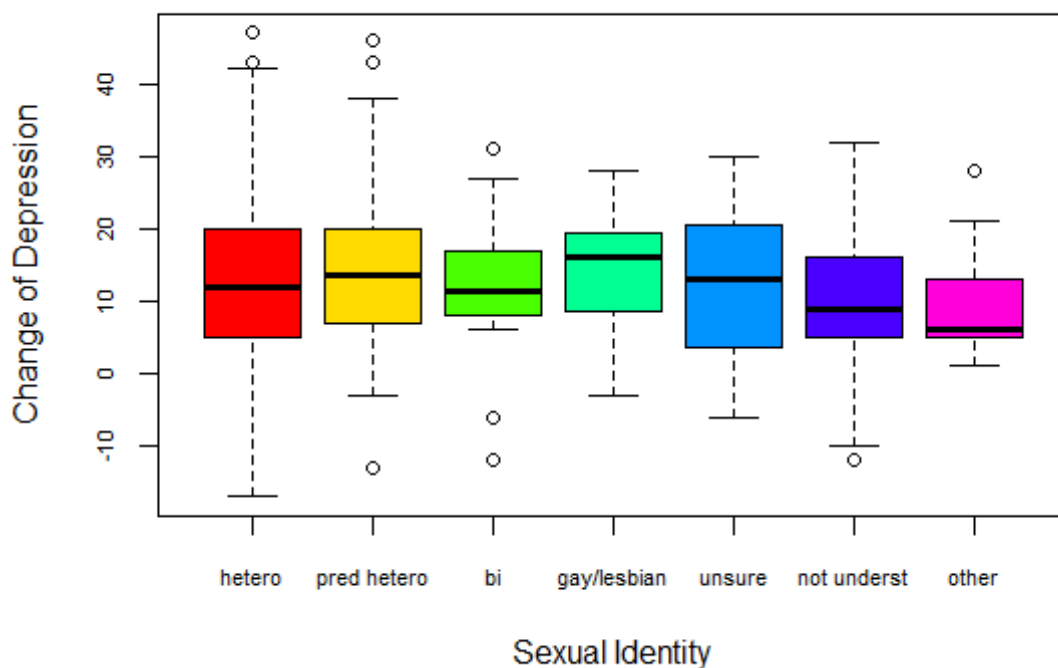
	Mean	SD Naive	SE	Time-series	SE
mu	3.6239	0.3977	0.003977		0.003977
attract hetero	-0.0587	0.4059	0.004059		0.004059
attract bi	-0.2085	0.5759	0.005759		0.005884
attract same-sex	0.2672	0.5801	0.005801		0.005837
sig2	23.4321	1.3317	0.013317		0.013317
g_attract	0.2651	0.9380	0.009380		0.009380

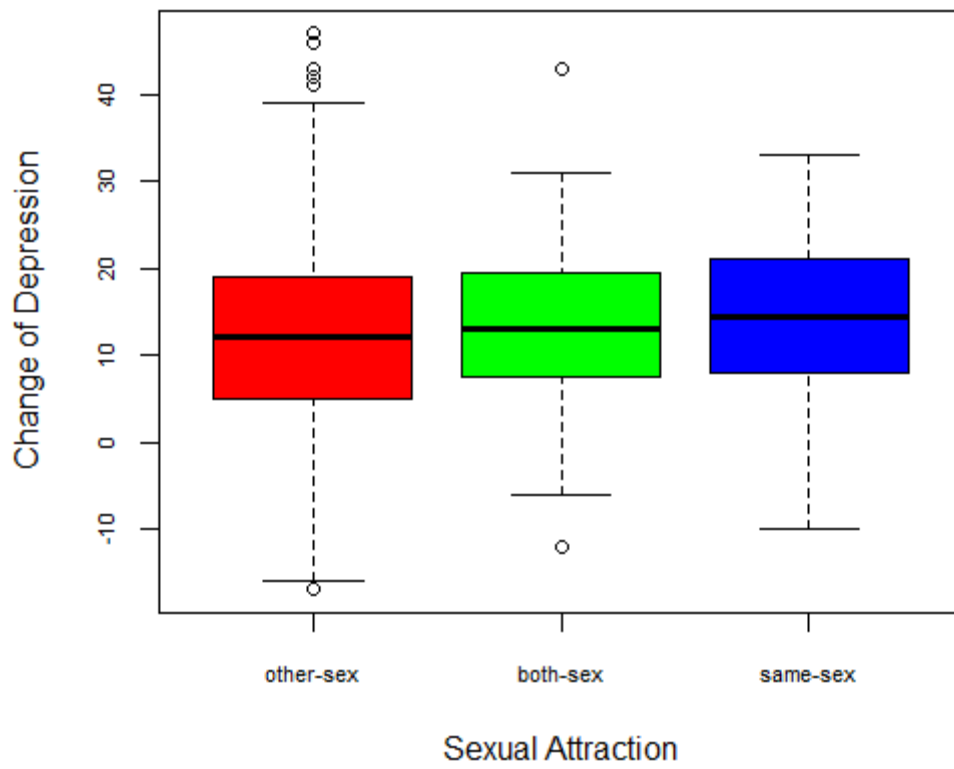
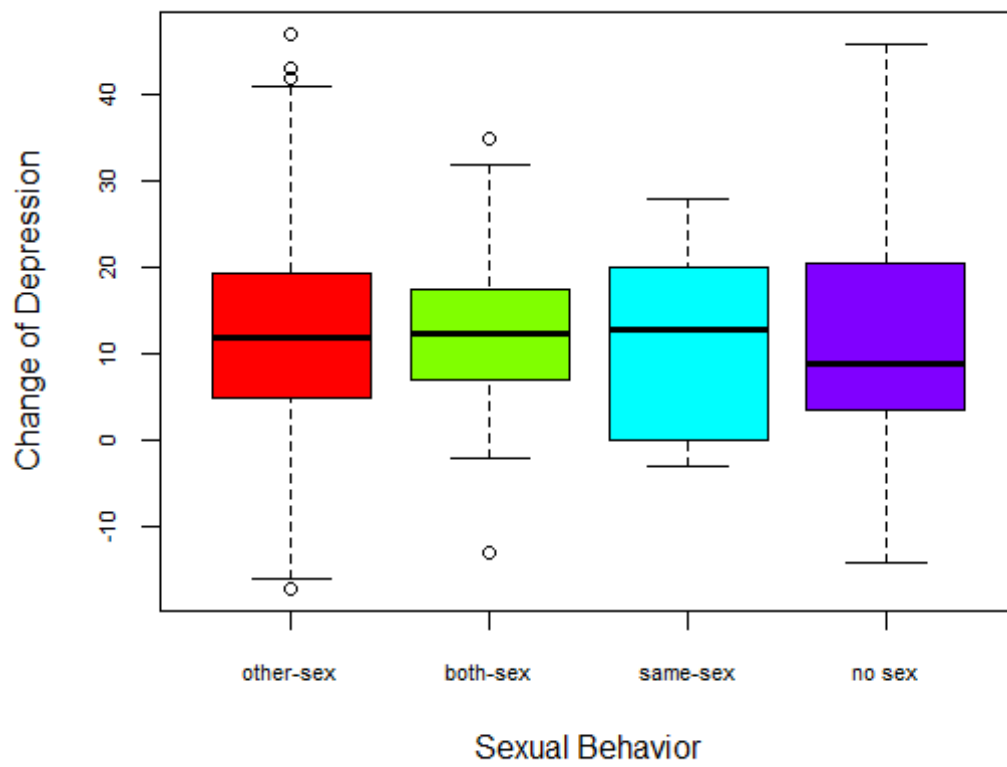
2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	2.84709	3.35153	3.62100	3.8926	4.4163
attract hetero	-0.86208	-0.33012	-0.06122	0.2149	0.7244
attract bi	-1.34606	-0.59544	-0.21034	0.1727	0.9297
attract same-sex	-0.86519	-0.11664	0.25928	0.6460	1.4345
sig2	20.97614	22.49479	23.39953	24.2920	26.1986
g_attract	0.03047	0.06936	0.12177	0.2372	1.2194

1.4 Change of Depression and Dimensions of Sexual Orientation

Boxplots





Linear Regression, with heterosexuals as baseline

Identity

Residuals:

Min	1Q	Median	3Q	Max
-12.6871	-3.6871	-0.6871	3.3129	15.3129

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.6871	0.2179	16.924	<2e-16 ***
identity pred hetero	0.6224	0.7747	0.803	0.4220
identity bi	-0.5443	1.3059	-0.417	0.6770
identity same-sex	1.0004	1.2240	0.817	0.4141
identity unsure	-0.6246	1.2240	-0.510	0.6100
identity not underst	-1.2725	0.7833	-1.625	0.1048
identity other	-3.0204	1.2629	-2.392	0.0171 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 4.818 on 626 degrees of freedom

Multiple R-squared: 0.01608, Adjusted R-squared: 0.006653

F-statistic: 1.705 on 6 and 626 DF, p-value: 0.1172

Identity clarified

Residuals:

Min	1Q	Median	3Q	Max
-13.5037	-3.5037	-0.5037	2.8571	15.4963

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.5037	0.2081	16.839	<2e-16 ***
id.cl-pred hetero	0.8058	0.7759	1.039	0.299
id.cl-bi	-0.3608	1.3113	-0.275	0.783
id.cl-same-sex	1.1838	1.2288	0.963	0.336
id.cl-unsure	-0.4412	1.2288	-0.359	0.720
id.cl-nonhetero	0.8296	2.8045	0.296	0.767

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 4.844 on 627 degrees of freedom

Multiple R-squared: 0.00364, Adjusted R-squared: -0.004305

F-statistic: 0.4581 on 5 and 627 DF, p-value: 0.8074

Behavior

Residuals:

Min	1Q	Median	3Q	Max
-13.5284	-3.5284	-0.5284	2.4716	15.4716

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.5284	0.2107	16.743	<2e-16 ***
behavior bi	0.1775	0.6239	0.284	0.776
behavior same-sex	1.6383	1.9881	0.824	0.410
behavior no sex	0.1813	0.8949	0.203	0.840

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 4.842 on 629 degrees of freedom

Multiple R-squared: 0.001224, Adjusted R-squared: -0.00354

F-statistic: 0.2568 on 3 and 629 DF, p-value: 0.8565

Attraction

Residuals:

Min	1Q	Median	3Q	Max
-13.5629	-3.5629	-0.5629	2.6452	15.4371

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.5629	0.2024	17.604	<2e-16 ***
attract bi	-0.2081	0.8926	-0.233	0.816
attr. same-sex	0.4037	0.9066	0.445	0.656

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 4.84 on 630 degrees of freedom

Multiple R-squared: 0.0004186, Adjusted R-squared: -0.002755

F-statistic: 0.1319 on 2 and 630 DF, p-value: 0.8764

Bayesian One-Way-ANOVA**Identity:** BF = 0.03 ±0.01% (Very strong evidence for H₀ over H₁)**Identity clarified:** BF = 0.04 ±0.01% (Strong evidence for H₀ over H₁)**Behavior:** BF = 0.04 ±0.01% (Strong evidence for H₀ over H₁)**Attraction:** BF = 0.09 ±0.02% (Strong evidence for H₀ over H₁)**Any SM-Indicator:** BF = 0.11 ±0.02% (Substantial evidence for H₀ over H₁)

Identity:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	12.21709	0.81050	0.0081050	0.0080545
identity -hetero	0.42516	0.88242	0.0088242	0.0087090
identity -pred hetero	1.62626	1.40119	0.0140119	0.0151283
identity -bi	-0.48099	1.87151	0.0187151	0.0190065
identity -same-sex	1.02601	1.83716	0.0183716	0.0191513
identity -unsure	0.12923	1.82049	0.0182049	0.0182049
identity -not underst	-1.09776	1.40468	0.0140468	0.0142821
identity -other	-1.62790	1.90805	0.0190805	0.0199884
sig2	116.73112	6.58553	0.0658553	0.0658553
g_identity	0.09565	0.08577	0.0008577	0.0009624

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	10.60072	11.68003	12.22466	12.7579	13.7921
identity -hetero	-1.29764	-0.16556	0.42315	1.0078	2.1758
identity -pred hetero	-1.10332	0.69005	1.60541	2.5321	4.4323
identity -bi	-4.22446	-1.72995	-0.45351	0.7663	3.1714
identity -same-sex	-2.46497	-0.22532	0.96402	2.2036	4.7219
identity -unsure	-3.45376	-1.06339	0.11040	1.3055	3.7346
identity -not underst	-3.89973	-2.02581	-1.06532	-0.1514	1.5999
identity -other	-5.61141	-2.84952	-1.56878	-0.3233	1.9014
sig2	104.57757	112.19679	116.52297	120.9008	130.3594
g_identity	0.02519	0.04899	0.07298	0.1135	0.3057

Identity clarified:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	13.0236	1.031	0.01031	0.010314
id.cl-hetero	-0.5990	1.080	0.01080	0.011074
id.cl-pred hetero	1.0382	1.454	0.01454	0.014538
id.cl-bi	-0.9130	1.912	0.01912	0.019700
id.cl-same-sex	0.5565	1.860	0.01860	0.018603
id.cl-unsure	-0.3398	1.841	0.01841	0.018613
id.cl-nonhetero	0.2571	2.611	0.02611	0.025304
sig2	116.9921	6.611	0.06611	0.066114
g_id.cl-	0.1110	0.115	0.00115	0.001313

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	10.98778	12.32302	13.01916	13.7201	15.0469
id.cl-hetero	-2.69831	-1.32743	-0.59889	0.1328	1.5072
id.cl-pred hetero	-1.80613	0.07677	1.01555	1.9938	3.9396
id.cl-bi	-4.81767	-2.14210	-0.88026	0.3570	2.7392
id.cl-same-sex	-3.01873	-0.67058	0.51224	1.7658	4.3136
id.cl-unsure	-4.08847	-1.52764	-0.33121	0.8942	3.2123
id.cl-nonhetero	-4.82223	-1.35884	0.19978	1.8564	5.6245
sig2	104.94543	112.43827	116.71339	121.2345	130.7889
g_id.cl-	0.02574	0.05132	0.07938	0.1301	0.3793

Behavior:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	12.2072	1.0043	0.010043	0.01004
behavior -hetero	0.4268	1.0399	0.010399	0.01040
behavior -bi	0.2738	1.2306	0.012306	0.01207
behavior -same-sex	-0.1531	2.2564	0.022564	0.02178
behavior -no sex	-0.5475	1.4780	0.014780	0.01499
sig2	117.0792	6.5884	0.065884	0.06588
g_behavior	0.1582	0.2241	0.002241	0.00236

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	10.23540	11.54287	12.20603	12.8680	14.1759
behavior -hetero	-1.62341	-0.27343	0.43374	1.1015	2.4717
behavior -bi	-2.11354	-0.55548	0.27756	1.0980	2.6740
behavior -same-sex	-4.58917	-1.59460	-0.15510	1.2954	4.3004
behavior -no sex	-3.47662	-1.52586	-0.53651	0.4367	2.3439
sig2	105.03565	112.55764	116.77273	121.3872	130.9337
g_behavior	0.02711	0.05832	0.09582	0.1725	0.6721

Attraction:

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	13.12382	0.8898	0.008898	0.009736
attract hetero	-0.65703	0.9125	0.009125	0.009125
attract bi	-0.07802	1.2891	0.012891	0.012891
attract same-sex	0.73505	1.3122	0.013122	0.013122
sig2	117.12927	6.6035	0.066035	0.067220
g_attract	0.29420	1.2540	0.012540	0.013253

2. Quantiles for each variable:

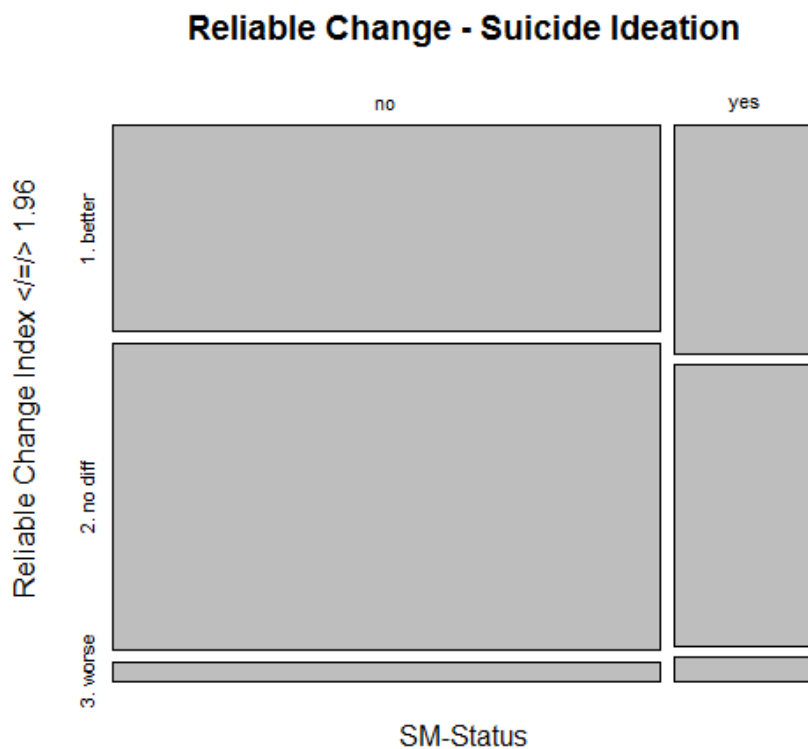
	2.5%	25%	50%	75%	97.5%
mu	11.40723	12.51309	13.11854	13.72998	14.891
attract hetero	-2.46460	-1.27059	-0.65738	-0.04172	1.117
attract bi	-2.61396	-0.94984	-0.06822	0.79279	2.438
attract same-sex	-1.83485	-0.13994	0.73092	1.61654	3.329
sig2	104.94372	112.57940	116.85984	121.40339	130.697
g_attract	0.03029	0.07078	0.12282	0.24226	1.352

2 Alternative measures of Treatment Outcome

2.1 Reliable Change Index

2.1.1 Suicide Ideation

	rci_BSI_c		
sm	1. better	2. no diff	3. worse
no	194	289	19
yes	56	69	6

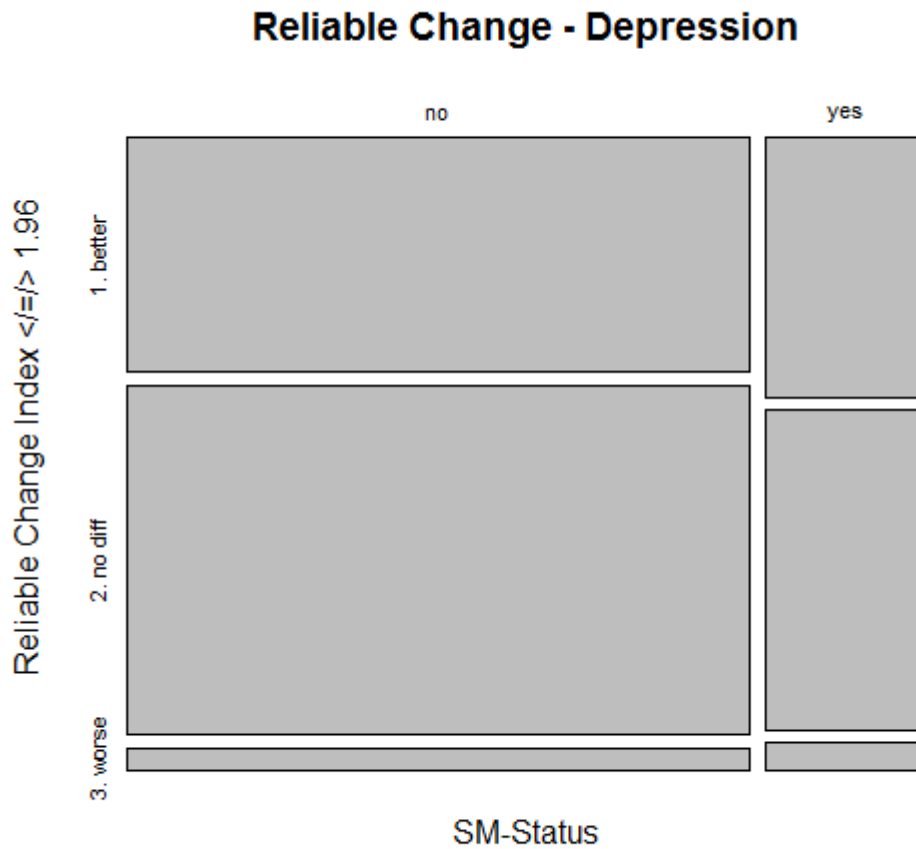


Pearson's Chi-squared test

data: sm and rci_BSI_c
 X-squared = 1.0498, df = 2, p-value = 0.5916

2.1.2 Depression

	rci_BDI_c		
sm	1. better	2. no diff	3. worse
no	287	207	8
yes	77	51	3



Pearson's Chi-squared test

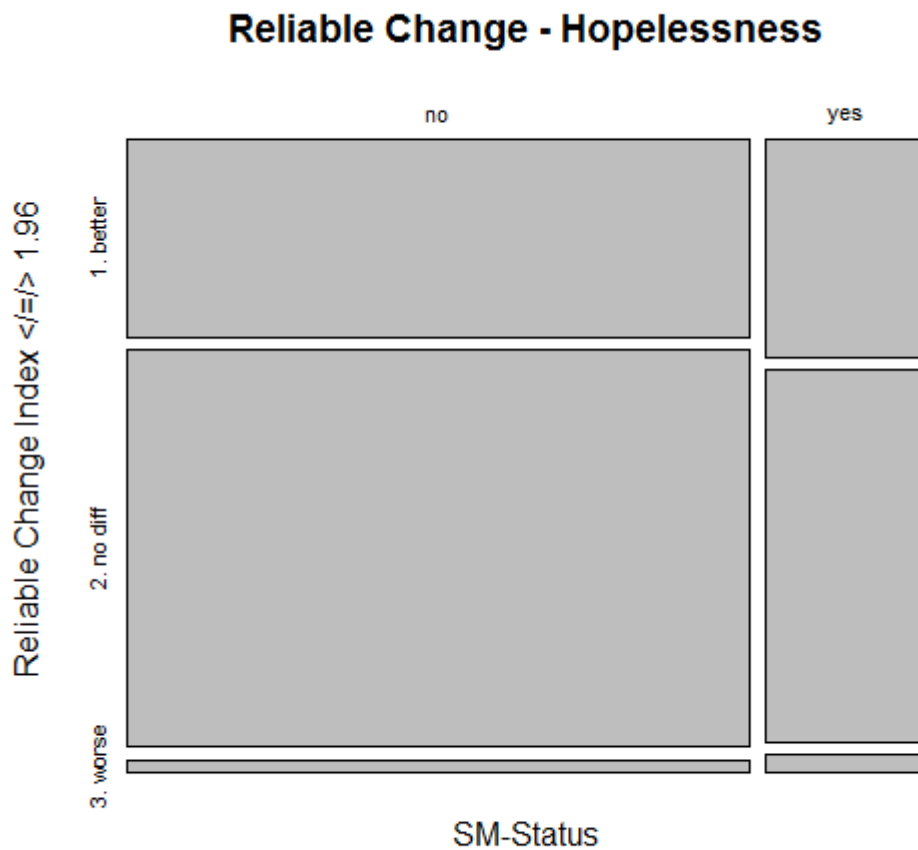
data: sm and rci_BDI_c

X-squared = 0.4719, df = 2, p-value = 0.7898

Pearson's Chi-squared test

2.1.3 Hopelessness

	rci_BHS_c		
sm	1. better	2. no diff	3. worse
no	163	328	11
yes	47	80	4



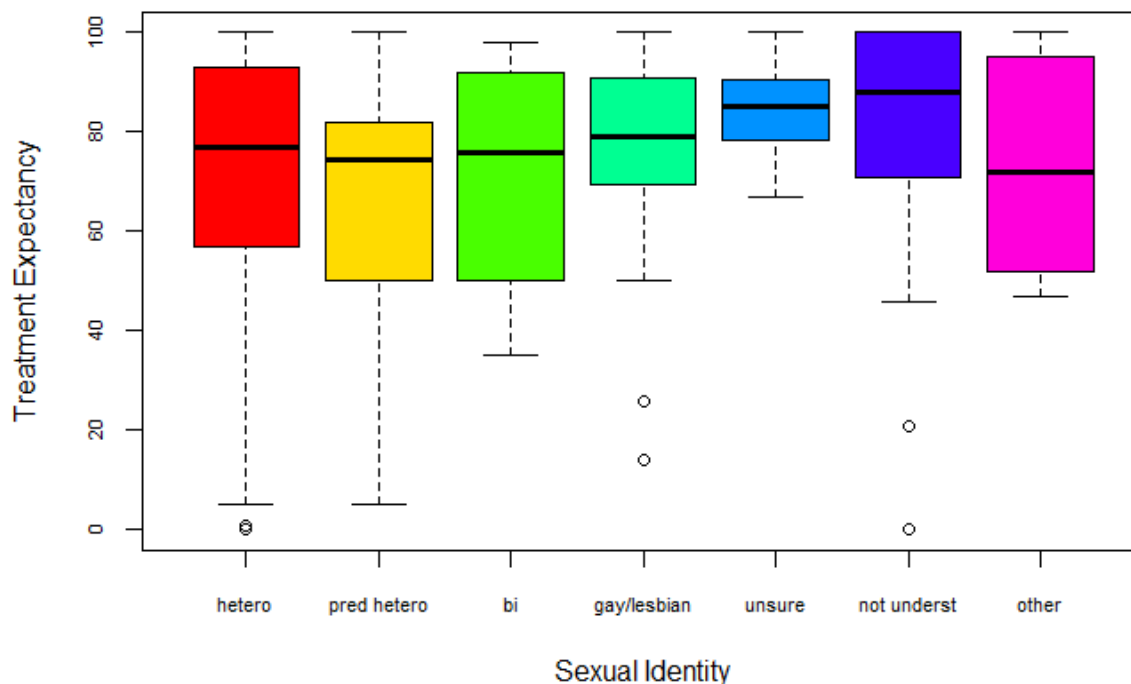
Pearson's Chi-squared test

data: sm and rci_BHS_c
 X-squared = 0.9834, df = 2, p-value = 0.6116

4 Treatment Expectancy – Main Results for various SM Dimensions

4.1 Sexual Identity and Treatment Expectancy

Boxplot



Linear Regression, with heterosexuals as baseline

Call:

```
lm(formula = EXPECTANCY~ identity )
```

Residuals:

Min	1Q	Median	3Q	Max
-79.707	-15.707	4.078	19.078	32.381

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	72.9223	1.0470	69.647	<2e-16 ***
identity pred hetero	-5.3032	3.7229	-1.424	0.155
identity bi	-3.0651	6.2759	-0.488	0.625
identity same-sex	0.3277	5.8823	0.056	0.956
identity unsure	11.4527	5.8823	1.947	0.052 .
identity not underst	6.7850	3.7645	1.802	0.072 .
identity other	0.2777	6.0692	0.046	0.964

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 23.15 on 626 degrees of freedom
Multiple R-squared: 0.01536, Adjusted R-squared: 0.005923
F-statistic: 1.628 on 6 and 626 DF, p-value: 0.1369

Bayesian One-Way-ANOVA

BF = 0.17 ±01% - substantial evidence for H_0 (grand mean) over H_1 (main effect for sexual orientation)

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

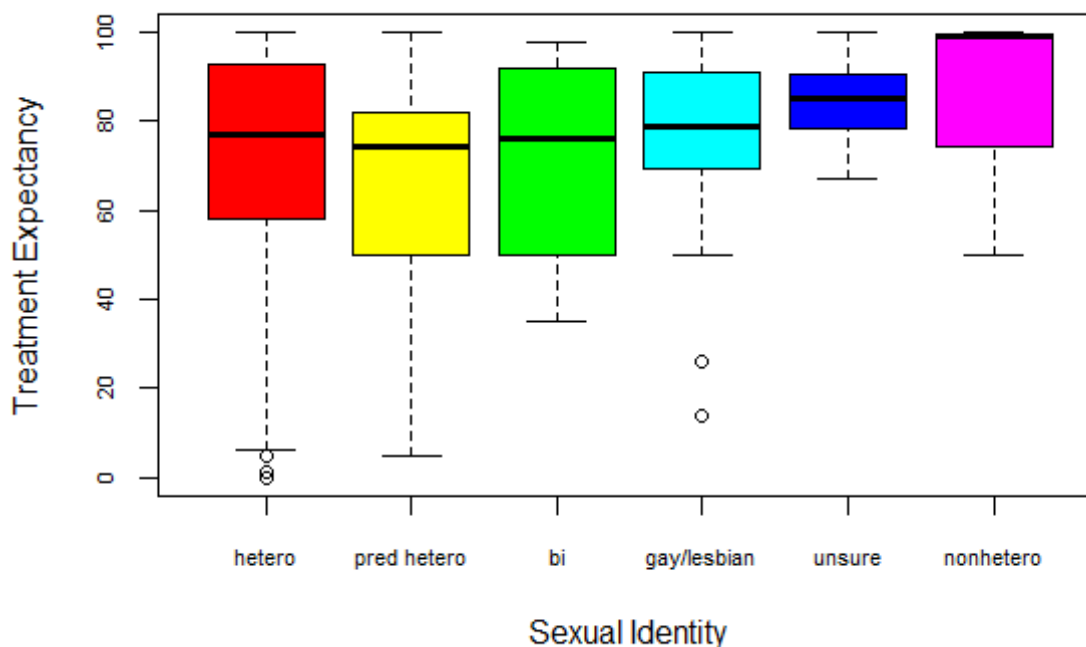
	Mean	SD	Naive SE	Time-series SE
mu	74.2884	1.72859	0.0172859	0.017286
identity -hetero	-1.3167	1.88522	0.0188522	0.018852
identity -pred hetero	-5.1745	3.13334	0.0313334	0.033157
identity -bi	-2.4615	4.25623	0.0425623	0.043519
identity -same-sex	-0.5982	4.02748	0.0402748	0.040275
identity -unsure	5.9080	4.24572	0.0424572	0.047177
identity -not underst	4.2424	3.07534	0.0307534	0.031461
identity -other	-0.5995	4.10429	0.0410429	0.042196
sig2	534.9955	30.62125	0.3062125	0.314172
g_identity	0.1149	0.09785	0.0009785	0.001144

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	70.91414	73.11873	74.29748	75.44269	77.6716
identity -hetero	-4.99688	-2.57655	-1.31414	-0.06277	2.4280
identity -pred hetero	-11.49772	-7.23609	-5.10062	-3.05410	0.8667
identity -bi	-10.96811	-5.24400	-2.33481	0.42401	5.6005
identity -same-sex	-8.57709	-3.28083	-0.53940	2.11115	7.2834
identity -unsure	-1.94011	2.96161	5.72203	8.67198	14.7226
identity -not underst	-1.68930	2.17318	4.23743	6.26677	10.4320
identity -other	-8.66540	-3.29700	-0.58087	2.13781	7.5513
sig2	478.89273	513.79681	533.58971	555.13181	597.7096
g_identity	0.02891	0.05798	0.08793	0.13800	0.35

4.2 Sexual Identity (clarified) and Treatment Expectancy

Boxplot



Linear Regression, with heterosexuals as baseline

Residuals:

Min	1Q	Median	3Q	Max
-73.387	-15.387	4.613	19.613	32.381

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	73.3875	0.9959	73.690	<2e-16 ***
id.cl-pred hetero	-5.7684	3.7136	-1.553	0.1209
id.cl-bi	-3.5303	6.2761	-0.563	0.5740
id.cl-same-sex	-0.1375	5.8813	-0.023	0.9814
id.cl-unsure	10.9875	5.8813	1.868	0.0622 .
id.cl-nonhetero	9.6125	13.4231	0.716	0.4742

 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 23.19 on 627 degrees of freedom
 Multiple R-squared: 0.01106, Adjusted R-squared: 0.003171
 F-statistic: 1.402 on 5 and 627 DF, p-value: 0.2215

Bayesian One-Way-ANOVA

BF = 0.17 ±0.0% - Substantial evidence for H₀ (grand mean) over H₁ (main effect for sexual orientation)

- Empirical mean and standard deviation for each variable, plus standard error of the mean:

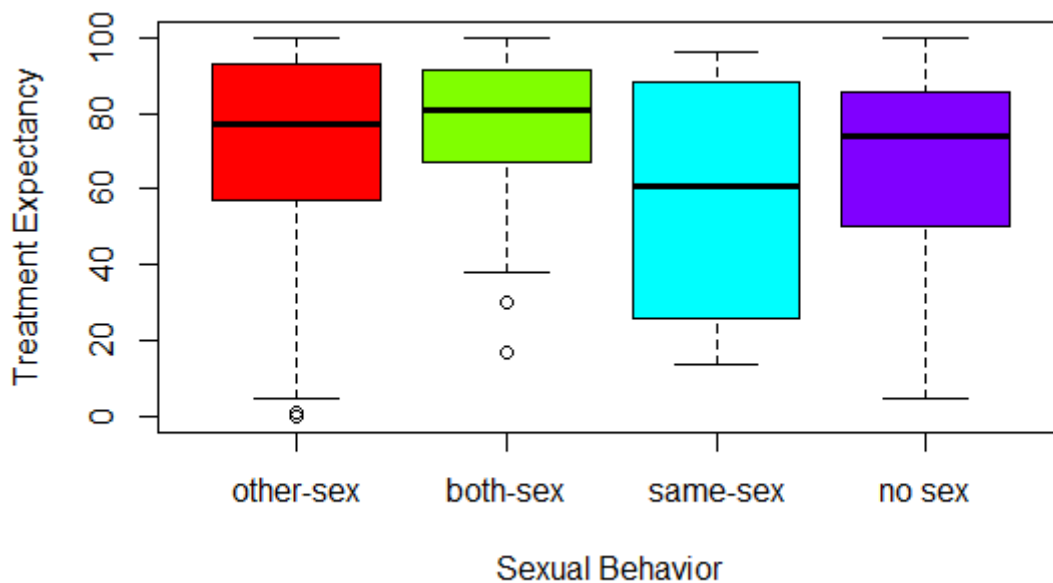
	Mean	SD	Naive SE	Time-series SE
mu	74.0299	2.2946	0.022946	0.022946
id.cl-hetero	-0.6187	2.4091	0.024091	0.024091
id.cl-pred hetero	-5.1762	3.3589	0.033589	0.038143
id.cl-bi	-2.4814	4.4463	0.044463	0.048009
id.cl-same-sex	-0.5415	4.1347	0.041347	0.041347
id.cl-unsure	6.3757	4.3863	0.043863	0.048873
id.cl-nonhetero	2.4420	6.2718	0.062718	0.064686
sig2	537.2621	30.1175	0.301175	0.301175
g_id.cl-	0.1503	0.1649	0.001649	0.001958

- Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	69.71577	72.43477	73.9998	75.5548	78.6154
id.cl-hetero	-5.47222	-2.21799	-0.5716	1.0298	3.9710
id.cl-pred hetero	-12.00513	-7.34979	-5.1196	-2.8997	1.1486
id.cl-bi	-11.57803	-5.32692	-2.3573	0.4786	6.0717
id.cl-same-sex	-8.89556	-3.23789	-0.4695	2.2421	7.5109
id.cl-unsure	-1.79188	3.40928	6.2424	9.1733	15.5192
id.cl-nonhetero	-9.30723	-1.57555	2.0949	6.2221	15.7661
sig2	481.32694	516.48481	535.8782	556.8532	599.3482
g_id.cl-	0.03108	0.06551	0.1047	0.1746	0.5477

4.3 Sexual Behavior and Treatment Expectancy

Boxplot



Linear Regression, with heterosexuals as baseline

Call:

```
lm(formula = EXPECTANCY ~ behavior)
```

Residuals:

Min	1Q	Median	3Q	Max
-73.203	-15.203	3.797	19.226	38.333

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	73.203	1.007	72.715	<2e-16 ***
behavior bi	4.709	2.980	1.580	0.115
behavior same-sex	-15.536	9.497	-1.636	0.102
behavior no sex	-6.428	4.275	-1.504	0.133

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 23.13 on 629 degrees of freedom

Multiple R-squared: 0.01243, Adjusted R-squared: 0.007719

F-statistic: 2.639 on 3 and 629 DF, p-value: 0.04871

Bayesian One-Way-ANOVA

BF = 0.56 ±0% - Anecdotal evidence for H_0 (grand mean) over H_1 (main effect for sexual orientation)

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	70.6170	2.3518	0.023518	0.02639
behavior -hetero	2.5441	2.4328	0.024328	0.02727
behavior -bi	6.6028	3.0638	0.030638	0.03511
behavior -same-sex	-6.1215	5.6323	0.056323	0.06395
behavior -no sex	-3.0254	3.3028	0.033028	0.03178
sig2	535.9187	29.9439	0.299439	0.29944
g_behavior	0.2669	0.6071	0.006071	0.00682

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	65.75728	69.08330	70.6792	72.2166	75.139
behavior -hetero	-2.05903	0.90776	2.4868	4.0938	7.530
behavior -bi	0.87266	4.47523	6.4770	8.5927	12.882
behavior -same-sex	-18.02530	-9.72874	-5.7927	-2.1624	4.027
behavior -no sex	-9.58662	-5.23381	-3.0098	-0.8619	3.490
sig2	479.85446	515.40727	534.7208	555.4104	596.941
g_behavior	0.03621	0.08624	0.1488	0.2757	1.203

4.4 Sexual Attraction and Treatment Expectancy

Boxplot



Linear Regression, with heterosexuals as baseline

Min	1Q	Median	3Q	Max
-73.33	-15.33	4.30	19.67	28.30

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	73.3287	0.9724	75.410	<2e-16 ***
attract bi	-0.1029	4.2887	-0.024	0.981
attr same-sex	-1.6287	4.3560	-0.374	0.709

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 23.26 on 630 degrees of freedom
Multiple R-squared: 0.0002219, Adjusted R-squared: -0.002952
F-statistic: 0.06991 on 2 and 630 DF, p-value: 0.9325

Bayesian One-Way-ANOVA

BF = 0.07 ±0.02% - Strong evidence for H_0 (grand mean) over H_1 (main effect for sexual orientation)

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

		Mean	SD	Naive SE	Time-series SE
mu		72.7978	1.929	0.01929	0.01929
attract	hetero	0.5188	1.971	0.01971	0.01971
attract	bi	0.3461	2.759	0.02759	0.02759
attract	same-sex	-0.8649	2.780	0.02780	0.02780
sig2		540.8725	30.623	0.30623	0.30623
g_attract		0.2821	1.098	0.01098	0.01098

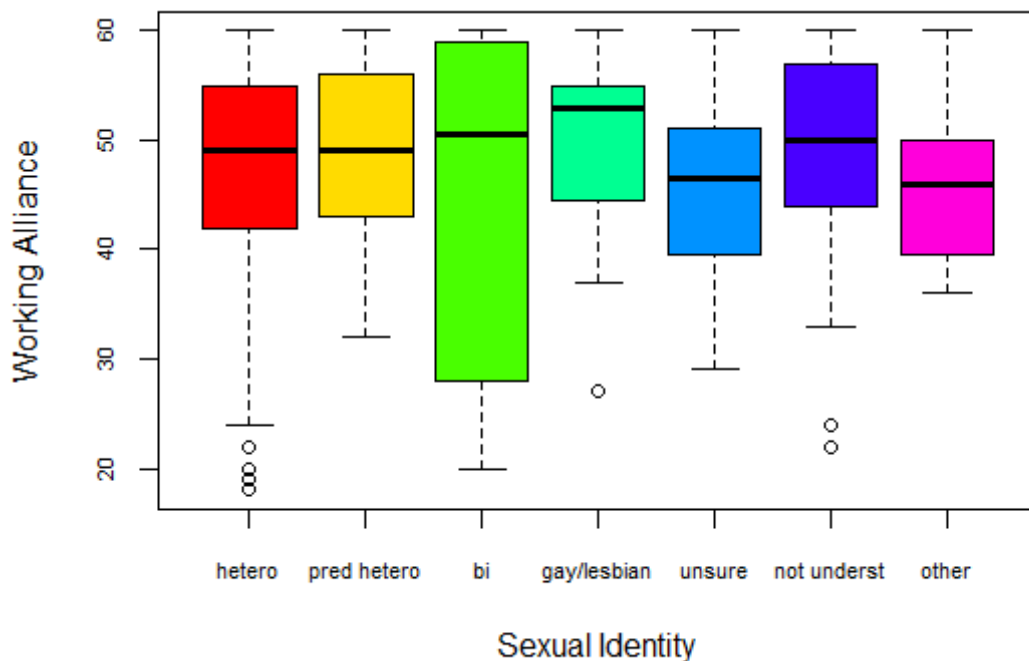
2. Quantiles for each variable:

		2.5%	25%	50%	75%	97.5%
mu		69.08989	71.48568	72.7805	74.1081	76.676
attract	hetero	-3.36642	-0.80134	0.5308	1.8389	4.375
attract	bi	-5.03399	-1.50443	0.3418	2.1674	5.793
attract	same-sex	-6.25552	-2.72141	-0.8518	1.0012	4.551
sig2		484.30128	519.76073	539.8113	560.9339	603.811
g_attract		0.03023	0.07045	0.1253	0.2442	1.343

5 Working Alliance – Main Results for various SM Dimensions

5.1 Sexual Identity and Working Alliance

Boxplot



Linear Regression, with heterosexuals as baseline

Residuals:

Min	1Q	Median	3Q	Max
-29.688	-5.688	1.312	7.312	15.143

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	47.6879	0.4155	114.779	<2e-16 ***
identity pred hetero	0.8731	1.4910	0.586	0.558
identity bi	-2.8307	2.4854	-1.139	0.255
identity same-sex	1.5121	2.4035	0.629	0.530
identity unsure	-1.8129	2.3295	-0.778	0.437
identity not underst	1.1414	1.4910	0.766	0.444
identity other	-1.4212	2.4035	-0.591	0.555

 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 9.169 on 622 degrees of freedom
 (4 observations deleted due to missingness)

Multiple R-squared: 0.005963, Adjusted R-squared: -0.003626
 F-statistic: 0.6218 on 6 and 622 DF, p-value: 0.7129

Bayesian One-Way-ANOVA

BF = 0.02 ±0.01% - Very strong evidence for H_0 (grand mean) over H_1 (main effect for sexual orientation)

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

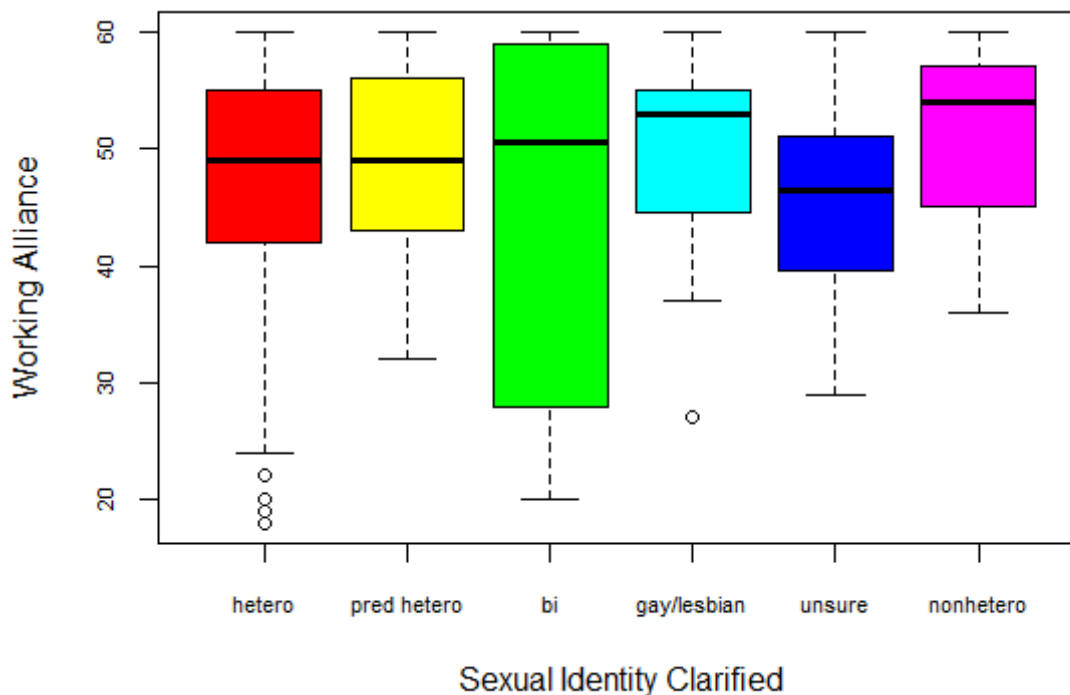
	Mean	SD	Naive SE	Time-series SE
mu	47.49018	0.67811	0.0067811	0.006821
identity -hetero	0.19052	0.74922	0.0074922	0.007492
identity -pred hetero	0.78706	1.20017	0.0120017	0.012935
identity -bi	-1.32288	1.61401	0.0161401	0.017322
identity -same-sex	0.91055	1.59500	0.0159500	0.016646
identity -unsure	-0.89890	1.51654	0.0151654	0.015165
identity -not underst	0.97758	1.20202	0.0120202	0.012212
identity -other	-0.64393	1.56510	0.0156510	0.016046
sig2	83.69227	4.75794	0.0475794	0.047579
g_identity	0.09535	0.08549	0.0008549	0.001010

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	46.14935	47.03502	47.49772	47.9451	48.8116
identity -hetero	-1.25730	-0.31281	0.18365	0.6950	1.6520
identity -pred hetero	-1.53016	-0.01299	0.77185	1.5807	3.2071
identity -bi	-4.64384	-2.35733	-1.28025	-0.2140	1.7083
identity -same-sex	-2.14286	-0.15887	0.82746	1.9260	4.2669
identity -unsure	-3.96588	-1.91503	-0.86644	0.1409	1.9786
identity -not underst	-1.31475	0.16305	0.95481	1.7759	3.3897
identity -other	-3.79620	-1.68224	-0.60008	0.3996	2.3673
sig2	74.88961	80.42093	83.54318	86.7780	93.6001
g_identity	0.02363	0.04724	0.07131	0.1121	0.3233

5.2 Sexual Identity (clarified) and Working Alliance

Boxplot



Linear Regression, with heterosexuals as baseline

Residuals:

Min	1Q	Median	3Q	Max
-29.722	-5.722	1.278	7.278	15.143

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	47.7222	0.3945	120.970	<2e-16 ***
id.cl-pred hetero	0.8388	1.4850	0.565	0.572
id.cl-bi	-2.8651	2.4816	-1.155	0.249
id.cl-same-sex	1.4778	2.3996	0.616	0.538
id.cl-unsure	-1.8472	2.3255	-0.794	0.427
id.cl-nonhetero	2.2778	5.3074	0.429	0.668

 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 9.167 on 623 degrees of freedom

(4 observations deleted due to missingness)

Multiple R-squared: 0.004688, Adjusted R-squared: -0.0033

F-statistic: 0.5869 on 5 and 623 DF, p-value: 0.71

Bayesian One-Way-ANOVA

BF = 0.04 ±0.01% - Strong evidence for H_0 (grand mean) over H_1 (main effect for sexual orientation)

- Empirical mean and standard deviation for each variable, plus standard error of the mean:

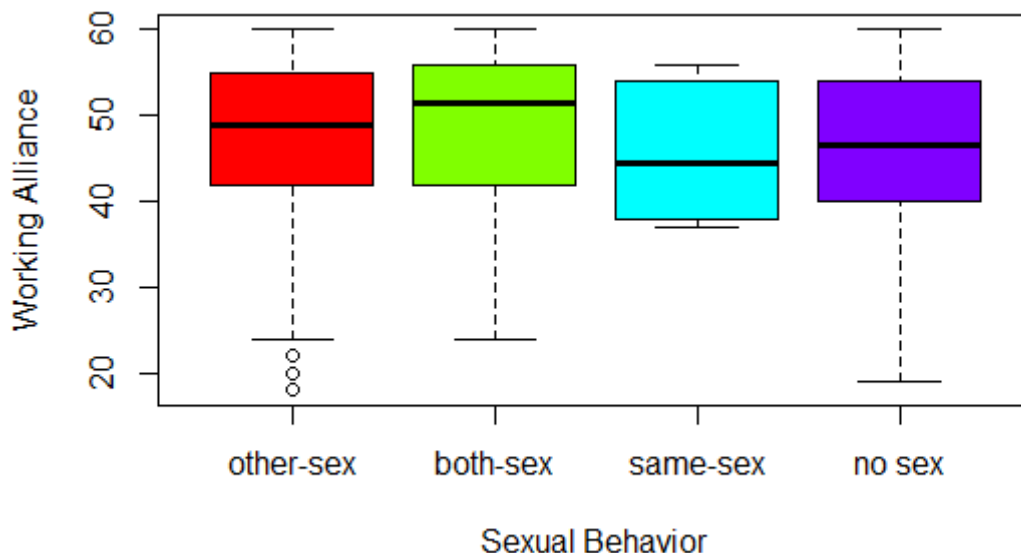
	Mean	SD	Naive SE	Time-series SE
mu	47.5489	0.8959	0.008959	0.008959
id.cl-hetero	0.1670	0.9314	0.009314	0.009314
id.cl-pred hetero	0.7653	1.2687	0.012687	0.012119
id.cl-bi	-1.4905	1.6866	0.016866	0.018645
id.cl-same-sex	0.9511	1.6393	0.016393	0.016846
id.cl-unsure	-0.9834	1.6291	0.016291	0.016812
id.cl-nonhetero	0.5905	2.3355	0.023355	0.023795
sig2	83.7992	4.8042	0.048042	0.048042
g_id.cl-	0.1272	0.1494	0.001494	0.001741

- Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	45.80577	46.94238	47.54931	48.1609	49.2942
id.cl-hetero	-1.64558	-0.46344	0.16995	0.8040	1.9872
id.cl-pred hetero	-1.66075	-0.08574	0.75105	1.6070	3.2955
id.cl-bi	-4.96891	-2.57208	-1.42056	-0.3357	1.6525
id.cl-same-sex	-2.17792	-0.15368	0.92457	2.0296	4.2498
id.cl-unsure	-4.31911	-2.04826	-0.93324	0.1081	2.0871
id.cl-nonhetero	-3.86992	-0.90446	0.51169	1.9825	5.4495
sig2	74.82028	80.50193	83.62131	86.9040	93.7384
g_id.cl-	0.02792	0.05603	0.08769	0.1462	0.4592

5.3 Sexual Behavior and Working Alliance

Boxplot



Linear Regression, with heterosexuals as baseline

Residuals:

Min	1Q	Median	3Q	Max
-29.729	-5.729	1.271	7.271	13.833

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	47.7287	0.3991	119.585	<2e-16 ***
behavior bi	0.7410	1.1963	0.619	0.536
behavior same-sex	-2.0620	3.7618	-0.548	0.584
behavior no sex	-1.5620	1.7198	-0.908	0.364

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 9.162 on 625 degrees of freedom
(4 observations deleted due to missingness)

Multiple R-squared: 0.002562, Adjusted R-squared: -0.002226

F-statistic: 0.5352 on 3 and 625 DF, p-value: 0.6583

Bayesian One-Way-ANOVA

BF = 0.06 ±0.01% - Strong evidence for H_0 (grand mean) over H_1 (main effect for sexual orientation)

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

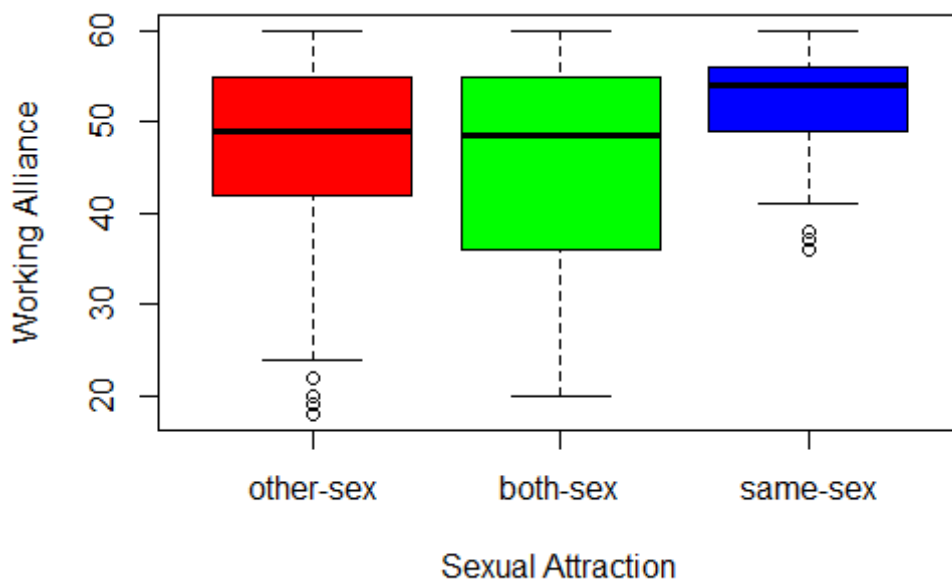
	Mean	SD Naive	SE	Time-series	SE
mu	47.2944	0.8605	0.008605		0.008729
behavior -hetero	0.4265	0.8865	0.008865		0.009005
behavior -bi	1.0235	1.0947	0.010947		0.011310
behavior same-sex	-0.6271	1.9622	0.019622		0.019987
behavior -no sex	-0.8230	1.2602	0.012602		0.012602
sig2	83.8024	4.6945	0.046945		0.046945
g_behavior	0.1824	0.3558	0.003558		0.004295

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	45.53969	46.73575	47.3083	47.87190	48.941
behavior -hetero	-1.27519	-0.17142	0.4165	1.00185	2.233
behavior -bi	-1.07403	0.28210	0.9894	1.74249	3.252
behavior same-sex	-4.76124	-1.87661	-0.5823	0.68278	3.184
behavior -no sex	-3.29896	-1.66053	-0.8005	0.01936	1.646
sig2	74.97671	80.57081	83.6751	86.86806	93.347
g_behavior	0.02887	0.06371	0.1063	0.19066	0.801

5.4 Sexual Attraction and Working Alliance

Boxplot



Linear Regression, with heterosexuals as baseline

Residuals:

	Min	1Q	Median	3Q	Max
	-29.626	-5.626	1.374	7.374	14.733

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	47.6263	0.3814	124.875	<2e-16 ***
attract bi	-2.3596	1.7056	-1.383	0.1670
attract same-sex	4.3047	1.7334	2.483	0.0133 *

 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 9.106 on 626 degrees of freedom
 (4 observations deleted due to missingness)

Multiple R-squared: 0.0133, Adjusted R-squared: 0.01015
 F-statistic: 4.22 on 2 and 626 DF, p-value: 0.01512

Bayesian One-Way-ANOVA

BF = 1.96 ±0.01% - Anecdotal evidence for H_1 (main effect for sexual orientation) over H_0 (grand mean)

1. Empirical mean and standard deviation for each variable, plus standard error of the mean:

	Mean	SD	Naive SE	Time-series SE
mu	48.2189	0.7738	0.007738	0.007738
attract hetero	-0.5810	0.7991	0.007991	0.007991
attract bi	-2.4898	1.1985	0.011985	0.013268
attract same-sex	3.0708	1.2323	0.012323	0.013873
sig2	83.0307	4.6862	0.046862	0.047650
g_attract	0.4622	1.9437	0.019437	0.019437

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	46.68999	47.7060	48.2204	48.73501	49.7139
attract hetero	-2.14500	-1.1132	-0.5851	-0.05206	1.0089
attract bi	-4.89218	-3.2757	-2.4794	-1.67988	-0.1757
attract same-sex	0.74401	2.2243	3.0456	3.89470	5.5415
sig2	74.48706	79.7715	82.8395	86.04635	92.6669
g_attract	0.04246	0.1071	0.1969	0.39781	2.3229

6 Intention to treat analysis

There were 753 complete records at intake. If there were repeated admissions, only the first admission was used. Of these, 627 (83%) discharge assessments were available, too. There is a slight discrepancy in the analytical data set ($n = 633$) used in the paper. This is because for 6 patients, there was a complete intake assessment but no discharge assessment. However, these 6 patients were readmitted later and had completed both the intake and discharge assessment (and were thus entered in the analytical sample). It is highly unlikely that these 6 patients will have a notable influence on the intention to treat analysis.

Slightly fewer SM patients (79%) completed the discharge assessment than heterosexual patients (85%), but the difference was not statistically significant, $OR = 1.42$ (0.91-2.20). No significant differences were found for the other dimensions of sexual orientation and subgroups of SM individuals with one exception: predominantly heterosexually identified patients had significantly lower rates of completion (73%), as revealed in a regression analysis.

At intake, those who did not complete the discharge assessment had comparable levels ($p > .05$) of suicide ideation ($d = -0.04$), hopelessness ($d = -0.05$), and depression ($d = -0.12$). For treatment expectancy, those who did not complete the discharge assessment had slightly lower treatment expectancy ($d = 0.18$, $p = .06$). There were no significant interaction effects for sexual orientation \times completion with respect to suicide ideation, hopelessness, depression, and treatment expectancy.

6.1 Rates of completion and sexual orientation measures

Identity

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7897	-0.5853	-0.5853	-0.5853	2.0745

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.6774	0.1142	-14.688	<2e-16 ***
identity pred hetero	0.6719	0.3226	2.082	0.0373 *
identity bi	0.1370	0.6464	0.212	0.8322
identity same-sex	0.2911	0.5706	0.510	0.6099
identity unsure	0.2911	0.5706	0.510	0.6099
identity not underst	-0.3507	0.4892	-0.717	0.4734
identity other	0.3556	0.5742	0.619	0.5357

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 680.15 on 752 degrees of freedom
 Residual deviance: 674.75 on 746 degrees of freedom
 AIC: 688.75

Identity, clarified

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7897	-0.5817	-0.5817	-0.5817	1.9288

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.6909	0.1094	-15.459	<2e-16 ***
id.cl-pred hetero	0.6854	0.3210	2.135	0.0327 *
id.cl-bi	0.1504	0.6455	0.233	0.8157
id.cl-same-sex	0.3046	0.5696	0.535	0.5928
id.cl-unsure	0.3046	0.5696	0.535	0.5928
id.cl-nonhetero	0.5923	1.1599	0.511	0.6096

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 680.15 on 752 degrees of freedom
 Residual deviance: 675.48 on 747 degrees of freedom
 AIC: 687.48

Number of Fisher scoring iterations: 4

Behavior

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.6287	0.1078	-15.113	<2e-16 ***
behavior bi	0.1471	0.3057	0.481	0.630
behavior same-sex	0.9355	0.7153	1.308	0.191
behavior no sex	-0.1631	0.4949	-0.330	0.742

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 680.15 on 752 degrees of freedom
 Residual deviance: 678.30 on 749 degrees of freedom
 AIC: 686.3

Number of Fisher Scoring iterations: 4

Attraction

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.714	-0.596	-0.596	-0.596	1.906

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.6381	0.1042	-15.721	<2e-16 ***
attract bi	0.4014	0.3927	1.022	0.307
attract same-sex	0.1828	0.4325	0.423	0.672

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 680.15 on 752 degrees of freedom
 Residual deviance: 679.05 on 750 degrees of freedom
 AIC: 685.05

Number of Fisher Scoring iterations: 4

Any SM indicator (as used in paper)

Call:

glm(formula = as.factor(m2) ~ sm, family = "binomial")

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.6840	-0.5823	-0.5823	-0.5823	1.9279

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.6888	0.1135	-14.882	<2e-16 ***
smyes	0.3554	0.2237	1.589	0.112

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 680.15 on 752 degrees of freedom
 Residual deviance: 677.72 on 751 degrees of freedom
 AIC: 681.72

Number of Fisher Scoring iterations: 4

6.2 Differences in the intake assessment (completers vs. noncompleters)

In the regression analysis, completers are the baseline

Treatment expectancy

Residuals:

Min	1Q	Median	3Q	Max
-73.234	-16.794	3.766	19.766	31.206

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	73.2344	0.9462	77.40	<2e-16 ***
m22.no	-4.4408	2.3132	-1.92	0.0553 .

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 23.69 on 751 degrees of freedom
 Multiple R-squared: 0.004884, Adjusted R-squared: 0.003559
 F-statistic: 3.686 on 1 and 751 DF, p-value: 0.05526

Cohen's d

d estimate: 0.1874284 (negligible)

95 percent confidence interval:

inf	sup
-0.004720011	0.379576751

Suicide ideation

Residuals:

Min	1Q	Median	3Q	Max
-9.024	-8.654	-1.024	6.346	25.346

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	8.6539	0.3491	24.791	<2e-16 ***
m22.no	0.3699	0.8533	0.433	0.665

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 8.741 on 751 degrees of freedom

Multiple R-squared: 0.0002501, Adjusted R-squared: -0.001081

F-statistic: 0.1879 on 1 and 751 DF, p-value: 0.6648

Cohen's d

d estimate: -0.04231929 (negligible)

95 percent confidence interval:

inf	sup
-0.2342444	0.1496058

Hopelessness

Residuals:

Min	1Q	Median	3Q	Max
-9.024	-8.654	-1.024	6.346	25.346

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	8.6539	0.3491	24.791	<2e-16 ***
m22.no	0.3699	0.8533	0.433	0.665

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 8.741 on 751 degrees of freedom

Multiple R-squared: 0.0002501, Adjusted R-squared: -0.001081

F-statistic: 0.1879 on 1 and 751 DF, p-value: 0.6648

Cohen's d

d estimate: -0.04723243 (negligible)

95 percent confidence interval:

inf	sup
-0.2391604	0.1446956

Depression

Residuals:

Min	1Q	Median	3Q	Max
-29.3810	-7.9697	0.0303	9.0303	30.0303

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	28.9697	0.4821	60.092	<2e-16 ***
m22.no	1.4113	1.1785	1.197	0.232

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 12.07 on 751 degrees of freedom

Multiple R-squared: 0.001906, Adjusted R-squared: 0.0005767

F-statistic: 1.434 on 1 and 751 DF, p-value: 0.2315

Cohen's d

d estimate: -0.1169072 (negligible)

95 percent confidence interval:

inf	sup
-0.30891184	0.07509746

6.3 Interaction completion of discharge assessment × sexual orientation

Treatment expectancy

Call:

```
lm(formula = EXPECTANCY ~ m2 * sm)
```

Residuals:

Min	1Q	Median	3Q	Max
-73.129	-16.706	3.871	19.871	31.294

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	73.1285	1.0631	68.788	<2e-16 ***
m22.no	-4.3024	2.6922	-1.598	0.110
smyes	0.5149	2.3438	0.220	0.826
m22.no:smyes	-0.6351	5.3071	-0.120	0.905

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 23.72 on 749 degrees of freedom

Multiple R-squared: 0.004949, Adjusted R-squared: 0.0009631

F-statistic: 1.242 on 3 and 749 DF, p-value: 0.2935

Suicide ideation

Call:

lm(formula = BSI_RW_M1 ~ m2 * sm)

Residuals:

Min	1Q	Median	3Q	Max
-10.318	-8.223	-1.223	6.777	24.777

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	8.2229	0.3905	21.058	<2e-16 ***
m22.no	0.4184	0.9889	0.423	0.6723
smyes	2.0949	0.8609	2.433	0.0152 *
m22.no:smyes	-0.6774	1.9494	-0.348	0.7283

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 8.714 on 749 degrees of freedom

Multiple R-squared: 0.008954, Adjusted R-squared: 0.004985

F-statistic: 2.256 on 3 and 749 DF, p-value: 0.08061

Hopelessness

Call:

lm(formula = BHS_RW_M1 ~ m2 * sm)

Residuals:

Min	1Q	Median	3Q	Max
-11.2093	-3.7992	0.2008	4.7907	9.2008

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	30.79920	0.23866	129.048	<2e-16 ***
m22.no	0.23341	0.60439	0.386	0.699
smyes	0.41011	0.52617	0.779	0.436
m22.no:smyes	-0.03095	1.19142	-0.026	0.979

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 5.326 on 749 degrees of freedom

Multiple R-squared: 0.001289, Adjusted R-squared: -0.002711

F-statistic: 0.3223 on 3 and 749 DF, p-value: 0.8092

Depression

Call:

```
lm(formula = BDI_II_RW_M1 ~ m2 * sm)
```

Residuals:

Min	1Q	Median	3Q	Max
-29.2481	-8.2481	0.3614	9.0882	30.3614

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	28.6386	0.5410	52.939	<2e-16 ***
m22.no	1.5462	1.3700	1.129	0.259
smyes	1.6095	1.1927	1.350	0.178
m22.no:smyes	-0.8825	2.7006	-0.327	0.744

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 12.07 on 749 degrees of freedom

Multiple R-squared: 0.004446, Adjusted R-squared: 0.0004585

F-statistic: 1.115 on 3 and 749 DF, p-value: 0.3421

7 Gender differences for main outcome variables

7.1 Treatment Outcome

Suicide Ideation

Change of suicide ideation by gender and sexual orientation

group1	vars	n	mean	sd	median
1.male.het		245	5.09	8.08	1
2.male.same-sex		49	5.53	8.48	1
3.fem.het		257	4.51	7.44	2
4.fem.same-sex		82	5.17	7.55	3

Regression Model: Suicide Ideation ~ gender x sexual orientation

Residuals:

Min	1Q	Median	3Q	Max
-28.514	-5.094	-3.171	4.906	26.906

Coefficients:

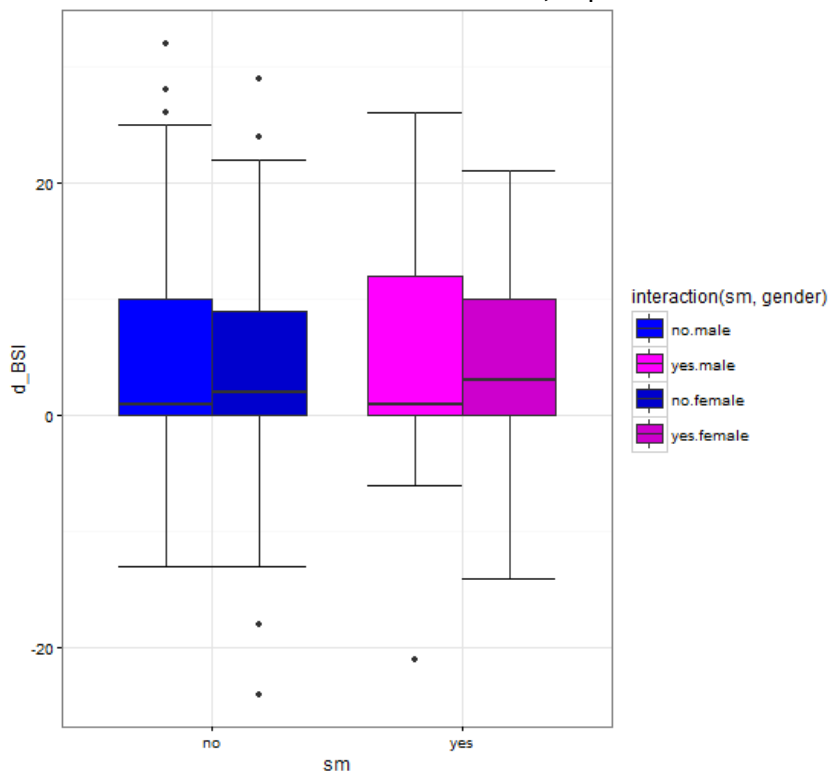
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	5.0939	0.4979	10.231	<2e-16 ***
smyes	0.4367	1.2196	0.358	0.720
genderfemale	-0.5803	0.6959	-0.834	0.405
smyes:genderfemale	0.2204	1.5698	0.140	0.888

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.793 on 629 degrees of freedom

Multiple R-squared: 0.001909, Adjusted R-squared: -0.002851

F-statistic: 0.401 on 3 and 629 DF, p-value: 0.7523



Hopelessness

Change of hopelessness by gender and sexual orientation

group1	mean	sd
1.male.het	3.73	5.01
2.male.same-sex	3.51	4.81
3.fem.het	3.37	4.71
4.fem.same-sex	3.77	4.76

Regression Model: Change of hopelessness ~ gender x sexual orientation

Residuals:

Min	1Q	Median	3Q	Max
-13.3696	-3.3696	-0.3696	2.6304	15.2694

Coefficients:

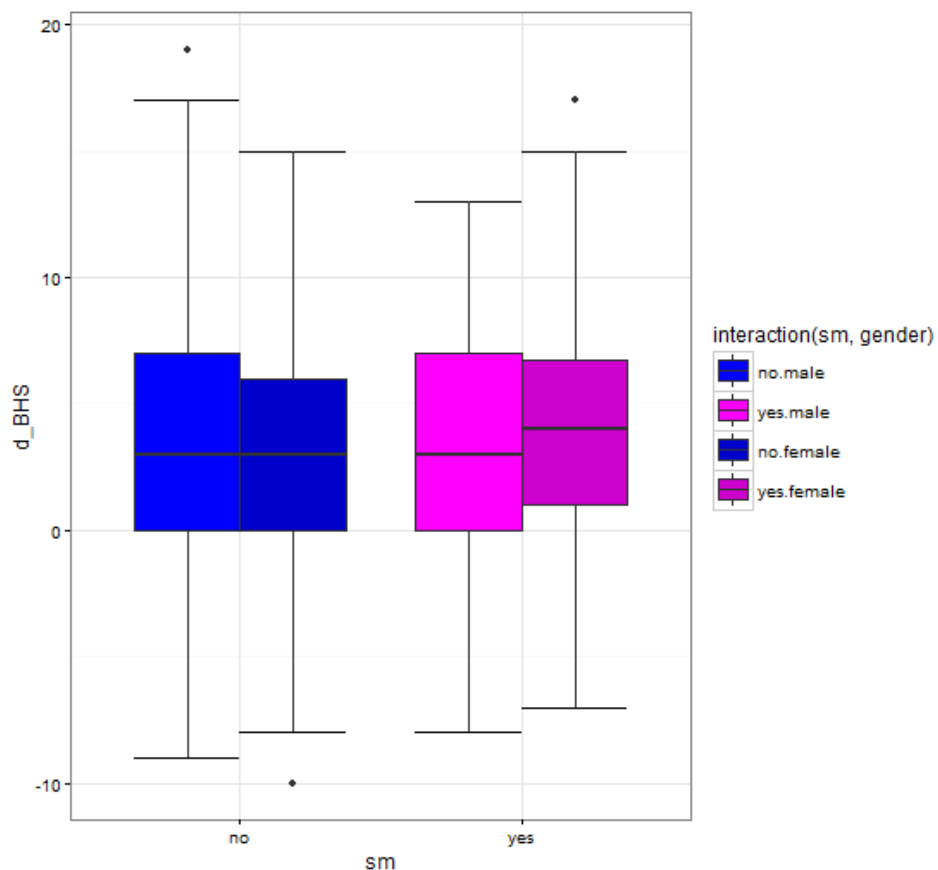
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.7306	0.3093	12.060	<2e-16 ***
smyes	-0.2204	0.7577	-0.291	0.771
genderfemale	-0.3610	0.4323	-0.835	0.404
smyes:genderfemale	0.6191	0.9753	0.635	0.526

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 4.842 on 629 degrees of freedom

Multiple R-squared: 0.001357, Adjusted R-squared: -0.003406

F-statistic: 0.2848 on 3 and 629 DF, p-value: 0.8364



Depression

Change of depression by gender and sexual orientation

group1	mean	sd
1.male.het	12.60	10.94
2.male.same-sex	11.94	11.00
3.fem.het	12.42	10.68
4.fem.same-sex	13.28	10.90

Regression Model: Change of depression ~ gender x sexual orientation

Residuals:

Min	1Q	Median	3Q	Max
-29.60	-7.42	-0.42	6.58	34.58

Coefficients:

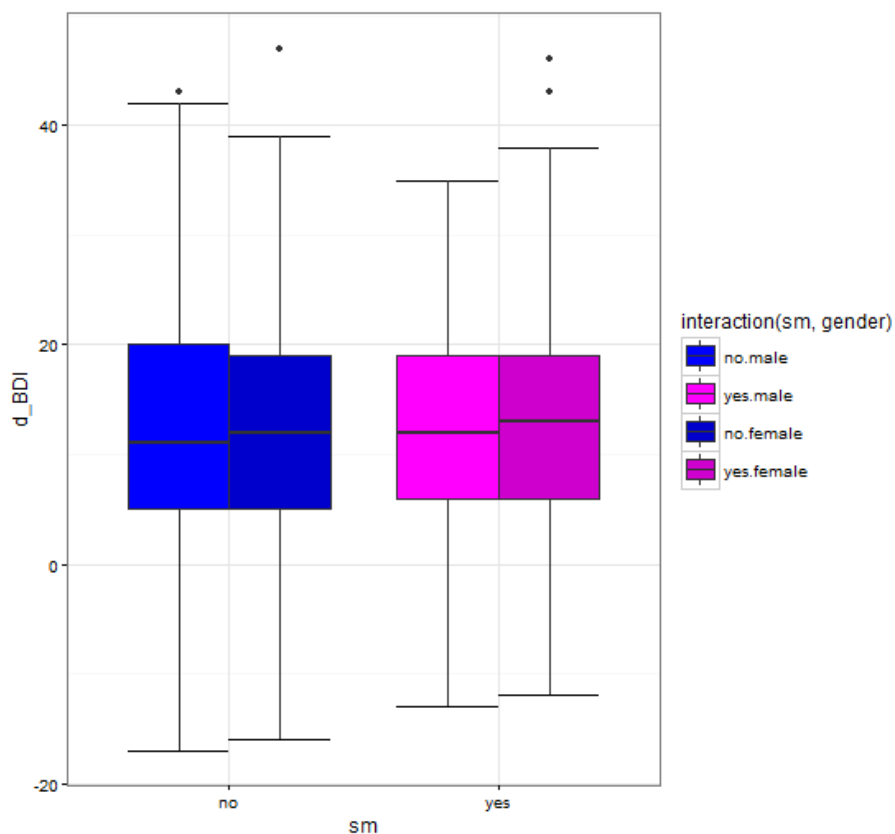
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	12.6041	0.6921	18.213	<2e-16 ***
smyes	-0.6653	1.6952	-0.392	0.695
genderfemale	-0.1838	0.9672	-0.190	0.849
smyes:genderfemale	1.5256	2.1820	0.699	0.485

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 10.83 on 629 degrees of freedom

Multiple R-squared: 0.0009063, Adjusted R-squared: -0.003859

F-statistic: 0.1902 on 3 and 629 DF, p-value: 0.9031



7.2 Treatment expectancy

Treatment expectancy by gender and sexual orientation

	n	mean	sd
1.male.het	245	74.19	23.09
2.male.same-sex	49	74.18	23.95
3.fem.het	257	72.12	23.47
4.fem.same-sex	82	73.41	22.65

Regression Model: Treatment expectancy ~ gender x sexual orientation

Residuals:

Min	1Q	Median	3Q	Max
-74.188	-15.188	3.883	19.585	27.883

Coefficients:

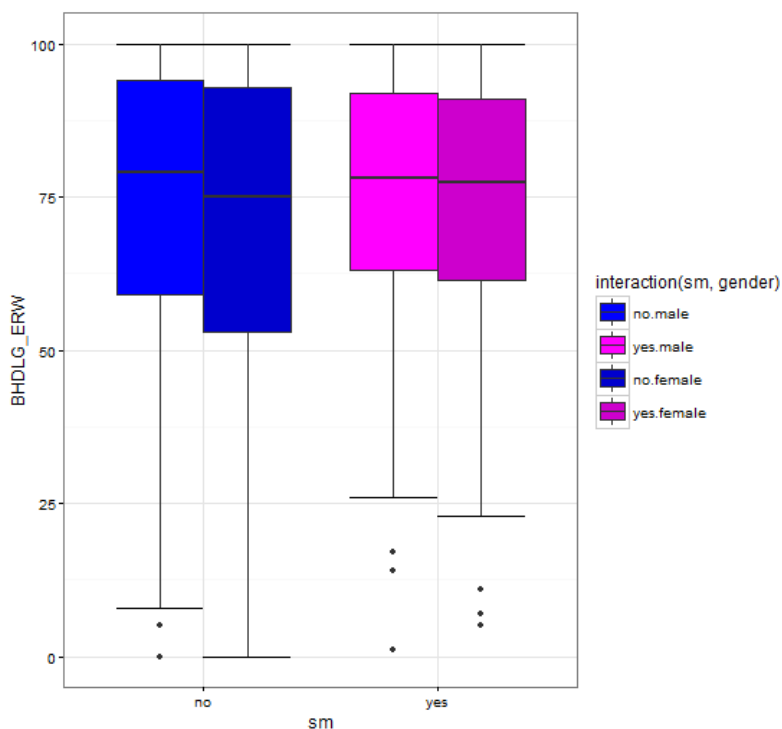
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	74.187755	1.485858	49.929	<2e-16 ***
smyes	-0.004082	3.639594	-0.001	0.999
genderfemale	-2.071024	2.076647	-0.997	0.319
smyes:genderfemale	1.301984	4.684841	0.278	0.781

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 23.26 on 629 degrees of freedom

Multiple R-squared: 0.001732, Adjusted R-squared: -0.003029

F-statistic: 0.3639 on 3 and 629 DF, p-value: 0.7791



7.3 Working alliance

Working alliance by gender and sexual orientation

group1	n	mean	sd
1.male.het	244	47.79	9.09
2.male.same-sex	49	48.29	8.43
3.fem.het	256	47.31	9.07
4.fem.same-sex	80	48.43	10.09

Regression Model: working alliance ~ gender x sexual orientation

Residuals:

Min	1Q	Median	3Q	Max
-29.309	-5.787	1.213	7.575	12.691

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	47.7869	0.5868	81.443	<2e-16 ***
smyes	0.4988	1.4348	0.348	0.728
genderfemale	-0.4783	0.8200	-0.583	0.560
smyes:genderfemale	0.6176	1.8539	0.333	0.739

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 9.165 on 625 degrees of freedom

(4 observations deleted due to missingness)

Multiple R-squared: 0.001898, Adjusted R-squared: -0.002893

F-statistic: 0.3961 on 3 and 625 DF, p-value: 0.7558

