

1-ALL

BEFORE COVID GRAPH (ALL)

DURING COVID GRAPH (ALL)

COMPARE VARIABLES BEFORE AND DURING COVID (ALL)

[1] "VARIABLE => Exercise"

[1] "VARIABLE => Social Activity"

[1] "VARIABLE => Hobby"

[1] "VARIABLE => Family"

2-WITH HISTORY

BEFORE COVID GRAPH (WITH HISTORY)

DURING COVID GRAPH (WITH HISTORY)

COMPARE VARIABLES BEFORE AND DURING COVID (WITH HISTORY)

[1] "VARIABLE => Exercise"

[1] "VARIABLE => Social Activity"

[1] "VARIABLE => Hobby"

[1] "VARIABLE => Family"

3-WITHOUT HISTORY

BEFORE COVID GRAPH (WITHOUT HISTORY)

DURING COVID GRAPH (WITHOUT HISTORY)

COMPARE VARIABLES BEFORE AND DURING COVID (WITHOUT HISTORY)

[1] "VARIABLE => Exercise"

[1] "VARIABLE => Social Activity"

[1] "VARIABLE => Hobby"

[1] "VARIABLE => Family"

4-WITH AND WITHOUT HISTORY (BEFORE COVID)

COMPARE VARIABLES WITH AND WITHOUT HISTORY (BEFORE COVID)

[1] "VARIABLE => Exercise"

[1] "VARIABLE => Social Activity"

[1] "VARIABLE => Hobby"

[1] "VARIABLE => Family"

5-WITH AND WITHOUT HISTORY (DURING COVID)

COMPARE VARIABLES WITH AND WITHOUT HISTORY (DURING COVID)

[1] "VARIABLE => Exercise"

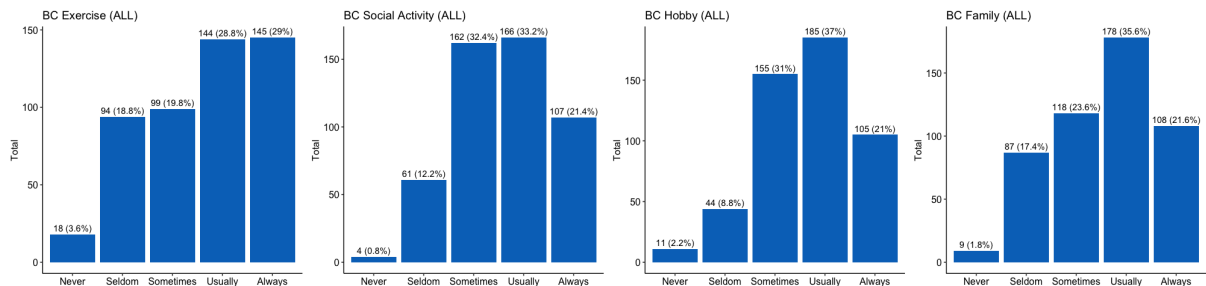
[1] "VARIABLE => Social Activity"

[1] "VARIABLE => Hobby"

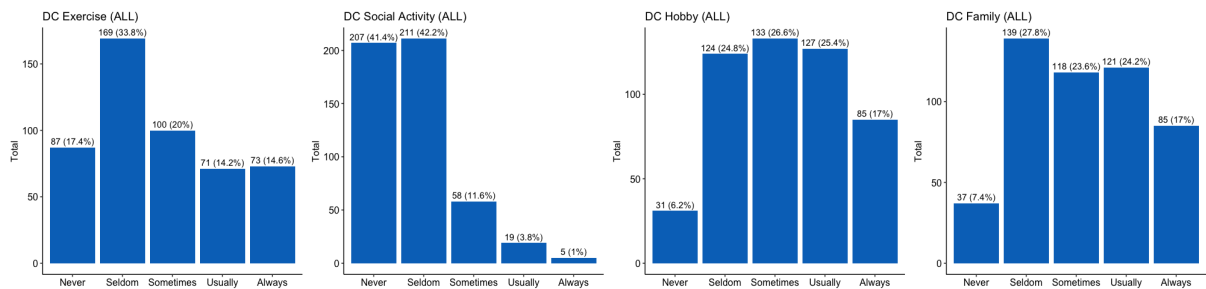
[1] "VARIABLE => Family"

1-ALL

BEFORE COVID GRAPH (ALL)



DURING COVID GRAPH (ALL)



COMPARE VARIABLES BEFORE AND DURING COVID (ALL)

```
[1] "====="
```

```
[1] "VARIABLE => Exercise"
```

```
[1] "====="
```

Shapiro-Wilk normality test

data: variableBefore

W = 0.87633, p-value < 2.2e-16

Shapiro-Wilk normality test

data: variableDuring

W = 0.88543, p-value < 2.2e-16

```
[1] "NOT NORMAL Distribution -> Mann-Withney"
```

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring

W = 170782, p-value < 2.2e-16

alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS Rejected"

[1] "Mean Before = 3.608"

[1] "Mean During = 2.748"

[1] "Median Before = 4"

[1] "Median During = 2"

[1] "Before > During"

Cohen's d

d estimate: 0.6893183 (medium)

95 percent confidence interval:

lower upper

0.5615762 0.8170604

[1] "=====

[1] "VARIABLE => Social Activity"

[1] "=====

Shapiro-Wilk normality test

data: variableBefore

W = 0.88837, p-value < 2.2e-16

Shapiro-Wilk normality test

data: variableDuring

W = 0.79268, p-value < 2.2e-16

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring

W = 225716, p-value < 2.2e-16

alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS Rejected"

[1] "Mean Before = 3.622"

```
[1] "Mean During = 1.808"
[1] "Median Before = 4"
[1] "Median During = 2"
[1] "Before > During"
```

Cohen's d

d estimate: 1.971251 (large)
95 percent confidence interval:
lower upper
1.819973 2.122528

```
[1] "=====
```

```
[1] "VARIABLE => Hobby"
```

```
[1] "=====
```

Shapiro-Wilk normality test

data: variableBefore
W = 0.8872, p-value < 2.2e-16

Shapiro-Wilk normality test

data: variableDuring
W = 0.90788, p-value < 2.2e-16

```
[1] "NOT NORMAL Distribution -> Mann-Withney"
```

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring
W = 151660, p-value = 1.537e-09
alternative hypothesis: true location shift is not equal to 0

```
[1] "Null Hypothesis IS Rejected"
[1] "Mean Before = 3.658"
[1] "Mean During = 3.222"
[1] "Median Before = 4"
[1] "Median During = 3"
[1] "Before > During"
```

Cohen's d

d estimate: 0.4032175 (small)

95 percent confidence interval:

lower	upper
0.2778532	0.5285819

[1] "=====

[1] "VARIABLE => Family"

[1] "=====

Shapiro-Wilk normality test

data: variableBefore

W = 0.88826, p-value < 2.2e-16

Shapiro-Wilk normality test

data: variableDuring

W = 0.90394, p-value < 2.2e-16

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring

W = 149673, p-value = 2.567e-08

alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS Rejected"

[1] "Mean Before = 3.578"

[1] "Mean During = 3.156"

[1] "Median Before = 4"

[1] "Median During = 3"

[1] "Before > During"

Cohen's d

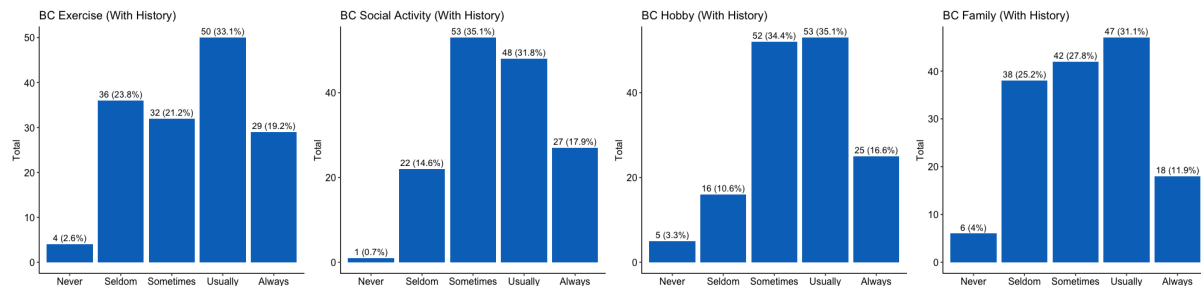
d estimate: 0.3694939 (small)

95 percent confidence interval:

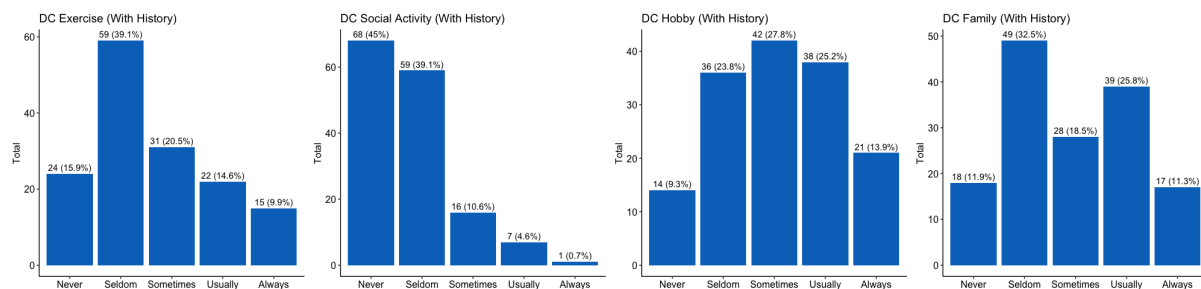
lower	upper
0.2443298	0.4946579

2-WITH HISTORY

BEFORE COVID GRAPH (WITH HISTORY)



DURING COVID GRAPH (WITH HISTORY)



COMPARE VARIABLES BEFORE AND DURING COVID (WITH HISTORY)

[1] "=====

[1] "VARIABLE => Exercise"

[1] "=====

Shapiro-Wilk normality test

data: variableBefore

W = 0.88935, p-value = 3.165e-09

Shapiro-Wilk normality test

data: variableDuring

W = 0.88381, p-value = 1.622e-09

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring

W = 15538, p-value = 1.956e-08

alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS Rejected"

[1] "Mean Before = 3.42384105960265"

[1] "Mean During = 2.63576158940397"

[1] "Median Before = 4"

[1] "Median During = 2"

[1] "Before > During"

Cohen's d

d estimate: 0.6759042 (medium)

95 percent confidence interval:

lower upper

0.4430472 0.9087613

[1] "=====

[1] "VARIABLE => Social Activity"

[1] "=====

Shapiro-Wilk normality test

data: variableBefore

W = 0.89129, p-value = 4.018e-09

Shapiro-Wilk normality test

data: variableDuring

W = 0.7829, p-value = 1.098e-13

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring

W = 20430, p-value < 2.2e-16

alternative hypothesis: true location shift is not equal to 0

```
[1] "Null Hypothesis IS Rejected"
[1] "Mean Before = 3.51655629139073"
[1] "Mean During = 1.7682119205298"
[1] "Median Before = 3"
[1] "Median During = 2"
[1] "Before > During"
```

Cohen's d

d estimate: 1.89785 (large)
95 percent confidence interval:
lower upper
1.625110 2.170589

```
[1] "=====
```

```
[1] "VARIABLE => Hobby"
```

```
[1] "=====
```

Shapiro-Wilk normality test

data: variableBefore
W = 0.89635, p-value = 7.58e-09

Shapiro-Wilk normality test

data: variableDuring
W = 0.91445, p-value = 8.738e-08

```
[1] "NOT NORMAL Distribution -> Mann-Withney"
```

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring
W = 13634, p-value = 0.002316
alternative hypothesis: true location shift is not equal to 0

```
[1] "Null Hypothesis IS Rejected"
[1] "Mean Before = 3.50993377483444"
[1] "Mean During = 3.10596026490066"
[1] "Median Before = 4"
[1] "Median During = 3"
[1] "Before > During"
```

Cohen's d

d estimate: 0.3677354 (small)
95 percent confidence interval:
lower upper
0.1393490 0.5961217

[1] "=====

[1] "VARIABLE => Family"

[1] "=====

Shapiro-Wilk normality test

data: variableBefore
W = 0.90524, p-value = 2.432e-08

Shapiro-Wilk normality test

data: variableDuring
W = 0.89937, p-value = 1.119e-08

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring
W = 13018, p-value = 0.02787
alternative hypothesis: true location shift is not equal to 0

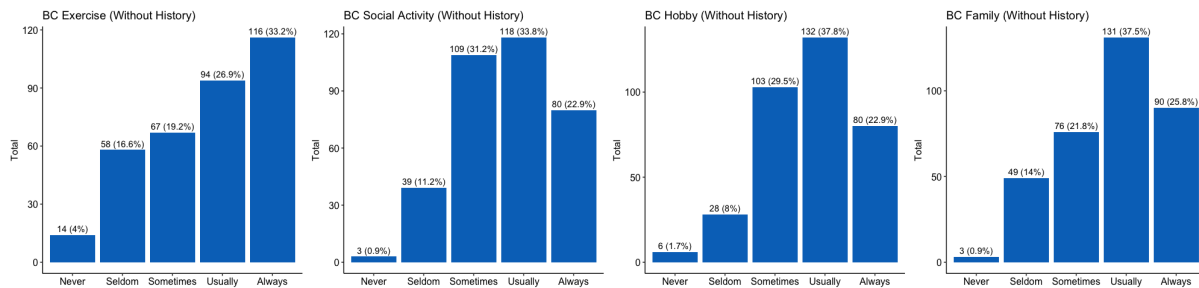
[1] "Null Hypothesis IS Rejected"
[1] "Mean Before = 3.21854304635762"
[1] "Mean During = 2.9205298013245"
[1] "Median Before = 3"
[1] "Median During = 3"
[1] "Before and During are similar (however, with a statistical difference)"

Cohen's d

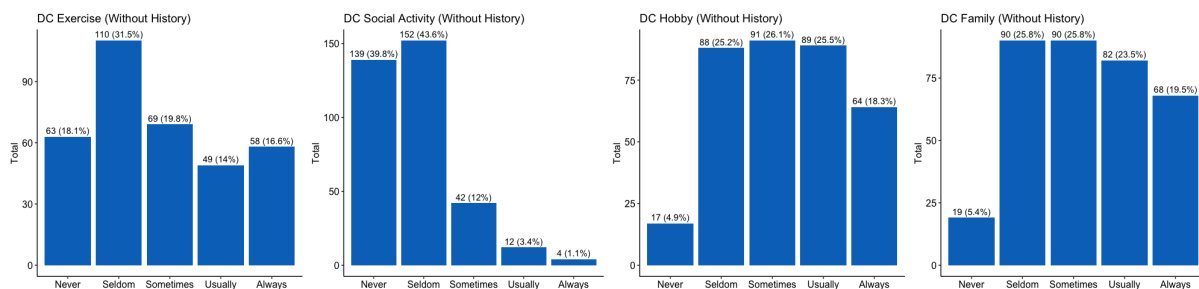
d estimate: 0.2578183 (small)
95 percent confidence interval:
lower upper
0.03039914 0.48523739

3-WITHOUT HISTORY

BEFORE COVID GRAPH (WITHOUT HISTORY)



DURING COVID GRAPH (WITHOUT HISTORY)



COMPARE VARIABLES BEFORE AND DURING COVID (WITHOUT HISTORY)

[1] "=====

[1] "VARIABLE => Exercise"

[1] "=====

Shapiro-Wilk normality test

data: variableBefore

W = 0.86437, p-value < 2.2e-16

Shapiro-Wilk normality test

data: variableDuring

W = 0.88439, p-value = 1.473e-15

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring

W = 83358, p-value < 2.2e-16

alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS Rejected"

[1] "Mean Before = 3.68767908309456"

[1] "Mean During = 2.79656160458453"

[1] "Median Before = 4"

[1] "Median During = 3"

[1] "Before > During"

Cohen's d

d estimate: 0.6976596 (medium)

95 percent confidence interval:

lower upper

0.5445750 0.8507441

[1] "=====

[1] "VARIABLE => Social Activity"

[1] "=====

Shapiro-Wilk normality test

data: variableBefore

W = 0.88615, p-value = 1.968e-15

Shapiro-Wilk normality test

data: variableDuring

W = 0.79583, p-value < 2.2e-16

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring

W = 110364, p-value < 2.2e-16

alternative hypothesis: true location shift is not equal to 0

```
[1] "Null Hypothesis IS Rejected"
[1] "Mean Before = 3.6676217765043"
[1] "Mean During = 1.82521489971347"
[1] "Median Before = 4"
[1] "Median During = 2"
[1] "Before > During"
```

Cohen's d

d estimate: 2.00485 (large)
95 percent confidence interval:
lower upper
1.822669 2.187031

```
[1] "=====
```

```
[1] "VARIABLE => Hobby"
```

```
[1] "=====
```

Shapiro-Wilk normality test

data: variableBefore
W = 0.88201, p-value = 9.989e-16

Shapiro-Wilk normality test

data: variableDuring
W = 0.9028, p-value = 3.627e-14

```
[1] "NOT NORMAL Distribution -> Mann-Withney"
```

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring
W = 74366, p-value = 1.671e-07
alternative hypothesis: true location shift is not equal to 0

```
[1] "Null Hypothesis IS Rejected"
[1] "Mean Before = 3.72206303724928"
[1] "Mean During = 3.27220630372493"
[1] "Median Before = 4"
[1] "Median During = 3"
[1] "Before > During"
```

Cohen's d

d estimate: 0.4203398 (small)
95 percent confidence interval:
lower upper
0.2700775 0.5706021

[1] "=====

[1] "VARIABLE => Family"

[1] "=====

Shapiro-Wilk normality test

data: variableBefore
W = 0.87384, p-value = 2.756e-16

Shapiro-Wilk normality test

data: variableDuring
W = 0.90093, p-value = 2.571e-14

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: variableBefore and variableDuring
W = 74658, p-value = 9.757e-08
alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS Rejected"
[1] "Mean Before = 3.73352435530086"
[1] "Mean During = 3.25787965616046"
[1] "Median Before = 4"
[1] "Median During = 3"
[1] "Before > During"

Cohen's d

d estimate: 0.4276451 (small)
95 percent confidence interval:
lower upper
0.2773260 0.5779643

4-WITH AND WITHOUT HISTORY (BEFORE COVID)

COMPARE VARIABLES WITH AND WITHOUT HISTORY (BEFORE COVID)

```
[1] "=====
```

```
[1] "VARIABLE => Exercise"
```

```
[1] "=====
```

Shapiro-Wilk normality test

data: v1

W = 0.88935, p-value = 3.165e-09

Shapiro-Wilk normality test

data: v2

W = 0.86437, p-value < 2.2e-16

```
[1] "NOT NORMAL Distribution -> Mann-Withney"
```

Wilcoxon rank sum test with continuity correction

data: v1 and v2

W = 22691, p-value = 0.01086

alternative hypothesis: true location shift is not equal to 0

```
[1] "Null Hypothesis IS Rejected"
```

```
[1] "Mean With History = 3.42384105960265"
```

```
[1] "Mean Without History = 3.68767908309456"
```

```
[1] "Median With History = 4"
```

```
[1] "Median Without History = 4"
```

```
[1] "With History and Without History are similar (however, with a statistical difference)"
```

Cohen's d

d estimate: -0.222883 (small)

95 percent confidence interval:

lower upper

-0.41475984 -0.03100608

[1] "=====

[1] "VARIABLE => Social Activity"

[1] "=====

Shapiro-Wilk normality test

data: v1

W = 0.89129, p-value = 4.018e-09

Shapiro-Wilk normality test

data: v2

W = 0.88615, p-value = 1.968e-15

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: v1 and v2

W = 24034, p-value = 0.1033

alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS NOT Rejected"

[1] "With History = Without History (without a statistical significance)"

Cohen's d

d estimate: -0.1546548 (negligible)

95 percent confidence interval:

lower	upper
-0.34627237	0.03696284

[1] "=====

[1] "VARIABLE => Hobby"

[1] "=====

Shapiro-Wilk normality test

data: v1

W = 0.89635, p-value = 7.58e-09

Shapiro-Wilk normality test

data: v2

W = 0.88201, p-value = 9.989e-16

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: v1 and v2

W = 23265, p-value = 0.02926

alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS Rejected"

[1] "Mean With History = 3.50993377483444"

[1] "Mean Without History = 3.72206303724928"

[1] "Median With History = 4"

[1] "Median Without History = 4"

[1] "With History and Without History are similar (however, with a statistical difference)"

Cohen's d

d estimate: -0.2179454 (small)

95 percent confidence interval:

lower	upper
-0.4098004	-0.0260904

[1] "=====

[1] "VARIABLE => Family"

[1] "=====

Shapiro-Wilk normality test

data: v1

W = 0.90524, p-value = 2.432e-08

Shapiro-Wilk normality test

data: v2

W = 0.87384, p-value = 2.756e-16

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: v1 and v2

W = 19400, p-value = 1.133e-06

alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS Rejected"

[1] "Mean With History = 3.21854304635762"

[1] "Mean Without History = 3.73352435530086"

[1] "Median With History = 3"

[1] "Median Without History = 4"

[1] "With History < Without History"

Cohen's d

d estimate: -0.4954646 (small)

95 percent confidence interval:

	lower	upper
	-0.6893011	-0.3016281

5-WITH AND WITHOUT HISTORY (DURING COVID)

COMPARE VARIABLES WITH AND WITHOUT HISTORY (DURING COVID)

```
[1] "=====
```

```
[1] "VARIABLE => Exercise"
```

```
[1] "=====
```

Shapiro-Wilk normality test

data: v1

W = 0.88381, p-value = 1.622e-09

Shapiro-Wilk normality test

data: v2

W = 0.88439, p-value = 1.473e-15

```
[1] "NOT NORMAL Distribution -> Mann-Withney"
```

Wilcoxon rank sum test with continuity correction

data: v1 and v2

W = 24814, p-value = 0.2862

alternative hypothesis: true location shift is not equal to 0

```
[1] "Null Hypothesis IS NOT Rejected"
```

```
[1] "With History = Without History (without a statistical significance)"
```

Cohen's d

d estimate: -0.1234065 (negligible)

95 percent confidence interval:

lower	upper
-0.31493658	0.06812354

```
[1] "=====
```

[1] "VARIABLE => Social Activity"

[1] "=====

Shapiro-Wilk normality test

data: v1

W = 0.7829, p-value = 1.098e-13

Shapiro-Wilk normality test

data: v2

W = 0.79583, p-value < 2.2e-16

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: v1 and v2

W = 25123, p-value = 0.3706

alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS NOT Rejected"

[1] "With History = Without History (without a statistical significance)"

Cohen's d

d estimate: -0.06638131 (negligible)

95 percent confidence interval:

lower	upper
-0.2578023	0.1250397

[1] "=====

[1] "VARIABLE => Hobby"

[1] "=====

Shapiro-Wilk normality test

data: v1

W = 0.91445, p-value = 8.738e-08

Shapiro-Wilk normality test

data: v2
W = 0.9028, p-value = 3.627e-14

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: v1 and v2
W = 24432, p-value = 0.1836
alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS NOT Rejected"
[1] "With History = Without History (without a statistical significance)"

Cohen's d

d estimate: -0.1414969 (negligible)
95 percent confidence interval:
lower upper
-0.33307527 0.05008143

[1] "=====

[1] "VARIABLE => Family"

[1] "=====

Shapiro-Wilk normality test

data: v1
W = 0.89937, p-value = 1.119e-08

Shapiro-Wilk normality test

data: v2
W = 0.90093, p-value = 2.571e-14

[1] "NOT NORMAL Distribution -> Mann-Withney"

Wilcoxon rank sum test with continuity correction

data: v1 and v2
W = 22334, p-value = 0.005383
alternative hypothesis: true location shift is not equal to 0

[1] "Null Hypothesis IS Rejected"

[1] "Mean With History = 2.9205298013245"

[1] "Mean Without History = 3.25787965616046"

[1] "Median With History = 3"

[1] "Median Without History = 3"

[1] "With History and Without History are similar (however, with a statistical difference)"

Cohen's d

d estimate: -0.2798174 (small)

95 percent confidence interval:

lower upper

-0.47198199 -0.08765285