

Pooled TSCYC

Alfieri Ek Obed Asare

2024-04-24

Pre (Jan 21, Dec 21) vs Post (May 21 ,May22)

Summary Statistics

\$ResponseLevel

RL_T_Pre_Mean	RL_T_Post_Mean	RL_T_Pre_SD	RL_T_Post_SD
44.972222	43.555556	8.026692	6.763112

\$AtypicalResponse

ATR_T_Pre_Mean	ATR_T_Post_Mean	ATR_T_Pre_SD	ATR_T_Post_SD
66.02778	62.75000	23.59720	18.77137

\$Anxiety

ANX_T_Pre_Mean	ANX_T_Post_Mean	ANX_T_Pre_SD	ANX_T_Post_SD
64.13889	60.52778	20.86850	13.55936

\$Depression

DEP_T_Pre_Mean	DEP_T_Post_Mean	DEP_T_Pre_SD	DEP_T_Post_SD
66.47222	62.30556	23.64800	15.41209

\$Anger_Aggression

ANG_T_Pre_Mean	ANG_T_Post_Mean	ANG_T_Pre_SD	ANG_T_Post_SD
70.00000	67.61111	17.36334	13.82395

\$Posttraumatic_Stress_Intrusion

PTSI_T_Pre_Mean	PTSI_T_Post_Mean	PTSI_T_Pre_SD	PTSI_T_Post_SD
68.50000	67.47222	24.98971	20.65013

\$Posttraumatic_Stress_Avoidance				
PTSAV_T_Pre_Mean	PTSAV_T_Post_Mean	PTSAV_T_Pre_SD	PTSAV_T_Post_SD	
68.86111	70.44444	25.97708	19.98349	

\$Posttraumatic_Stress_Arousal				
PTSAR_T_Pre_Mean	PTSAR_T_Post_Mean	PTSAR_T_Pre_SD	PTSAR_T_Post_SD	
72.69444	71.22222	18.35494	15.07147	

\$Posttraumatic_Stress_Total				
PTS_TOT_T_Pre_Mean	PTS_TOT_T_Post_Mean	PTS_TOT_T_Pre_SD	PTS_TOT_T_Post_SD	
73.72222	73.44444	23.96737	17.95780	

\$Dissociation				
DIS_T_Pre_Mean	DIS_T_Post_Mean	DIS_T_Pre_SD	DIS_T_Post_SD	
69.36111	65.13889	20.77107	16.89658	

\$SexualConcerns				
SC_T_Pre_Mean	SC_T_Post_Mean	SC_T_Pre_SD	SC_T_Post_SD	
62.05556	62.44444	22.39891	19.65625	

T tests

Normality Check

H_0 : The data is normally distributed. H_1 : The data is not normally distributed.

\$ResponseLevel

\$ResponseLevel\$RL_T_Pre

Shapiro-Wilk normality test

data: newX[, i]

W = 0.7201, p-value = 5.942e-07

\$ResponseLevel\$RL_T_Post

Shapiro-Wilk normality test

```
data: newX[, i]
W = 0.64572, p-value = 4.391e-08
```

```
$AtypicalResponse
$AtypicalResponse$ATR_T_Pre
```

Shapiro-Wilk normality test

```
data: newX[, i]
W = 0.7266, p-value = 7.608e-07
```

```
$AtypicalResponse$ATR_T_Post
```

Shapiro-Wilk normality test

```
data: newX[, i]
W = 0.77615, p-value = 5.66e-06
```

```
$Anxiety
$Anxiety$ANX_T_Pre
```

Shapiro-Wilk normality test

```
data: newX[, i]
W = 0.89628, p-value = 0.002703
```

```
$Anxiety$ANX_T_Post
```

Shapiro-Wilk normality test

```
data: newX[, i]
W = 0.96616, p-value = 0.33
```

```
$Depression  
$Depression$DEP_T_Pre
```

Shapiro-Wilk normality test

```
data: newX[, i]  
W = 0.86873, p-value = 0.0005298
```

```
$Depression$DEP_T_Post
```

Shapiro-Wilk normality test

```
data: newX[, i]  
W = 0.92676, p-value = 0.01998
```

```
$Anger_Aggression  
$Anger_Aggression$ANG_T_Pre
```

Shapiro-Wilk normality test

```
data: newX[, i]  
W = 0.96414, p-value = 0.2874
```

```
$Anger_Aggression$ANG_T_Post
```

Shapiro-Wilk normality test

```
data: newX[, i]  
W = 0.97998, p-value = 0.7449
```

```
$Posttraumatic_Stress_Intrusion
```

\$Posttraumatic_Stress_Intrusion\$PTSI_T_Pre

Shapiro-Wilk normality test

data: newX[, i]
W = 0.84098, p-value = 0.0001188

\$Posttraumatic_Stress_Intrusion\$PTSI_T_Post

Shapiro-Wilk normality test

data: newX[, i]
W = 0.90844, p-value = 0.005852

\$Posttraumatic_Stress_Avoidance
\$Posttraumatic_Stress_Avoidance\$PTSAV_T_Pre

Shapiro-Wilk normality test

data: newX[, i]
W = 0.79824, p-value = 1.503e-05

\$Posttraumatic_Stress_Avoidance\$PTSAV_T_Post

Shapiro-Wilk normality test

data: newX[, i]
W = 0.91853, p-value = 0.0114

\$Posttraumatic_Stress_Arousal
\$Posttraumatic_Stress_Arousal\$PTSAR_T_Pre

Shapiro-Wilk normality test

```
data: newX[, i]
W = 0.96662, p-value = 0.3404
```

```
$Posttraumatic_Stress_Arousal$PTSAR_T_Post
```

```
Shapiro-Wilk normality test
```

```
data: newX[, i]
W = 0.97945, p-value = 0.7269
```

```
$Posttraumatic_Stress_Total
$Posttraumatic_Stress_Total$PTS_TOT_T_Pre
```

```
Shapiro-Wilk normality test
```

```
data: newX[, i]
W = 0.86988, p-value = 0.0005653
```

```
$Posttraumatic_Stress_Total$PTS_TOT_T_Post
```

```
Shapiro-Wilk normality test
```

```
data: newX[, i]
W = 0.95817, p-value = 0.1887
```

```
$Dissociation
$Dissociation$DIS_T_Pre
```

```
Shapiro-Wilk normality test
```

```
data: newX[, i]
W = 0.92027, p-value = 0.01282
```

```
$Dissociation$DIS_T_Post
```

```
Shapiro-Wilk normality test
```

```
data: newX[, i]  
W = 0.92519, p-value = 0.01793
```

```
$SexualConcerns  
$SexualConcerns$SC_T_Pre
```

```
Shapiro-Wilk normality test
```

```
data: newX[, i]  
W = 0.72909, p-value = 8.37e-07
```

```
$SexualConcerns$SC_T_Post
```

```
Shapiro-Wilk normality test
```

```
data: newX[, i]  
W = 0.80761, p-value = 2.314e-05
```

Homogeneity of variances Check

H_0 : The variances of the groups are equal. H_1 : The variances of the groups are not equal.

```
$ResponseLevel
```

```
# A tibble: 1 x 4
```

	df1	df2	statistic	p
	<int>	<int>	<dbl>	<dbl>
1	1	70	0.736	0.394

```
$AtypicalResponse
```

```
# A tibble: 1 x 4
```

	df1	df2	statistic	p
--	-----	-----	-----------	---

	<int>	<int>	<dbl>	<dbl>
1	1	70	0.904	0.345

\$Anxiety

A tibble: 1 x 4

	df1	df2	statistic	p
	<int>	<int>	<dbl>	<dbl>
1	1	70	3.60	0.0619

\$Depression

A tibble: 1 x 4

	df1	df2	statistic	p
	<int>	<int>	<dbl>	<dbl>
1	1	70	3.39	0.0700

\$Anger_Aggression

A tibble: 1 x 4

	df1	df2	statistic	p
	<int>	<int>	<dbl>	<dbl>
1	1	70	2.06	0.156

\$Posttraumatic_Stress_Intrusion

A tibble: 1 x 4

	df1	df2	statistic	p
	<int>	<int>	<dbl>	<dbl>
1	1	70	0.587	0.446

\$Posttraumatic_Stress_Avoidance

A tibble: 1 x 4

	df1	df2	statistic	p
	<int>	<int>	<dbl>	<dbl>
1	1	70	1.20	0.277

\$Posttraumatic_Stress_Arousal

A tibble: 1 x 4

	df1	df2	statistic	p
	<int>	<int>	<dbl>	<dbl>
1	1	70	1.10	0.299


```
$Posttraumatic_Stress_Total
# A tibble: 1 x 4
  df1 df2 statistic p
  <int> <int> <dbl> <dbl>
1     1     70     2.49 0.119
```

```
$Dissociation
# A tibble: 1 x 4
  df1 df2 statistic p
  <int> <int> <dbl> <dbl>
1     1     70     2.19 0.143
```

```
$SexualConcerns
# A tibble: 1 x 4
  df1 df2 statistic p
  <int> <int> <dbl> <dbl>
1     1     70 0.000173 0.990
```

T Tests (Alternative = two.sided)

```
$ResponseLevel
```

Welch Two Sample t-test

```
data: T_Score by Scale
t = -0.80983, df = 68.042, p-value = 0.4209
alternative hypothesis: true difference in means between group RL_T_Post and group RL_T_Pre is not equal to 0
95 percent confidence interval:
 -4.907391  2.074057
sample estimates:
mean in group RL_T_Post mean in group RL_T_Pre
      43.55556           44.97222
```

```
$AtypicalResponse
```

Welch Two Sample t-test

```
data: T_Score by Scale
```

t = -0.65223, df = 66.63, p-value = 0.5165
 alternative hypothesis: true difference in means between group ATR_T_Post and group ATR_T_Pre is not equal to 0
 95 percent confidence interval:
 -13.309678 6.754123
 sample estimates:
 mean in group ATR_T_Post mean in group ATR_T_Pre
 62.75000 66.02778

\$Anxiety

Welch Two Sample t-test

data: T_Score by Scale
 t = -0.87061, df = 60.082, p-value = 0.3874
 alternative hypothesis: true difference in means between group ANX_T_Post and group ANX_T_Pre is not equal to 0
 95 percent confidence interval:
 -11.907700 4.685478
 sample estimates:
 mean in group ANX_T_Post mean in group ANX_T_Pre
 60.52778 64.13889

\$Depression

Welch Two Sample t-test

data: T_Score by Scale
 t = -0.88568, df = 60.188, p-value = 0.3793
 alternative hypothesis: true difference in means between group DEP_T_Post and group DEP_T_Pre is not equal to 0
 95 percent confidence interval:
 -13.57644 5.24311
 sample estimates:
 mean in group DEP_T_Post mean in group DEP_T_Pre
 62.30556 66.47222

\$Anger_Aggression

Welch Two Sample t-test

data: T_Score by Scale

t = -0.64581, df = 66.653, p-value = 0.5206

alternative hypothesis: true difference in means between group ANG_T_Post and group ANG_T_Pre is not equal to 0

95 percent confidence interval:

-9.772933 4.995155

sample estimates:

mean in group ANG_T_Post	mean in group ANG_T_Pre
67.61111	70.00000

\$Posttraumatic_Stress_Intrusion

Welch Two Sample t-test

data: T_Score by Scale

t = -0.19022, df = 67.599, p-value = 0.8497

alternative hypothesis: true difference in means between group PTISI_T_Post and group PTISI_T_Pre is not equal to 0

95 percent confidence interval:

-11.810387 9.754831

sample estimates:

mean in group PTISI_T_Post	mean in group PTISI_T_Pre
67.47222	68.50000

\$Posttraumatic_Stress_Avoidance

Welch Two Sample t-test

data: T_Score by Scale

t = 0.28986, df = 65.68, p-value = 0.7728

alternative hypothesis: true difference in means between group PTSAV_T_Post and group PTSAV_T_Pre is not equal to 0

95 percent confidence interval:

-9.323626 12.490292

sample estimates:

mean in group PTSAV_T_Post	mean in group PTSAV_T_Pre
70.44444	68.86111

\$Posttraumatic_Stress_Arousal

Welch Two Sample t-test

data: T_Score by Scale

t = -0.37193, df = 67.446, p-value = 0.7111

alternative hypothesis: true difference in means between group PTSAR_T_Post and group PTSAR_T_Pre is not equal to 0

95 percent confidence interval:

-9.372062 6.427618

sample estimates:

mean in group PTSAR_T_Post	mean in group PTSAR_T_Pre
71.22222	72.69444

\$Posttraumatic_Stress_Total

Welch Two Sample t-test

data: T_Score by Scale

t = -0.055651, df = 64.88, p-value = 0.9558

alternative hypothesis: true difference in means between group PTS_TOT_T_Post and group PTS_TOT_T_Pre is not equal to 0

95 percent confidence interval:

-10.246701 9.691145

sample estimates:

mean in group PTS_TOT_T_Post	mean in group PTS_TOT_T_Pre
73.44444	73.72222

\$Dissociation

Welch Two Sample t-test

data: T_Score by Scale

t = -0.94614, df = 67.215, p-value = 0.3475

alternative hypothesis: true difference in means between group DIS_T_Post and group DIS_T_Pre is not equal to 0

95 percent confidence interval:

-13.129080 4.684635

sample estimates:

```
mean in group DIS_T_Post mean in group DIS_T_Pre
      65.13889           69.36111
```

\$SexualConcerns

Welch Two Sample t-test

data: T_Score by Scale

t = 0.078298, df = 68.839, p-value = 0.9378

alternative hypothesis: true difference in means between group SC_T_Post and group SC_T_Pre is not equal to 0

95 percent confidence interval:

-9.519974 10.297751

sample estimates:

```
mean in group SC_T_Post mean in group SC_T_Pre
      62.44444           62.05556
```

Sign Test (Alternative = two.sided)

\$ResponseLevel

A tibble: 1 x 7

.y.	group1	group2	n1	n2	statistic	p
* <chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	RL_T_Post	RL_T_Pre	36	36	25 0.0803

\$AtypicalResponse

A tibble: 1 x 7

.y.	group1	group2	n1	n2	statistic	p
* <chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	ATR_T_Post	ATR_T_Pre	36	36	54 0.296

\$Anxiety

A tibble: 1 x 7

.y.	group1	group2	n1	n2	statistic	p
* <chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	ANX_T_Post	ANX_T_Pre	36	36	136. 0.132

\$Depression

A tibble: 1 x 7

	.y.	group1	group2	n1	n2	statistic	p
*	<chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	DEP_T_Post	DEP_T_Pre	36	36	189	0.104

\$Anger_Aggression

A tibble: 1 x 7

	.y.	group1	group2	n1	n2	statistic	p
*	<chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	ANG_T_Post	ANG_T_Pre	36	36	193	0.422

\$Posttraumatic_Stress_Intrusion

A tibble: 1 x 7

	.y.	group1	group2	n1	n2	statistic	p
*	<chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	PTSI_T_Post	PTSI_T_Pre	36	36	170	0.459

\$Posttraumatic_Stress_Avoidance

A tibble: 1 x 7

	.y.	group1	group2	n1	n2	statistic	p
*	<chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	PTSAV_T_Post	PTSAV_T_Pre	36	36	235	0.473

\$Posttraumatic_Stress_Arousal

A tibble: 1 x 7

	.y.	group1	group2	n1	n2	statistic	p
*	<chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	PTSAR_T_Post	PTSAR_T_Pre	36	36	247	0.392

\$Posttraumatic_Stress_Total

A tibble: 1 x 7

	.y.	group1	group2	n1	n2	statistic	p
*	<chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	PTS_TOT_T_Post	PTS_TOT_T_Pre	36	36	284	0.824

\$Dissociation

A tibble: 1 x 7

	.y.	group1	group2	n1	n2	statistic	p
*	<chr>	<chr>	<chr>	<int>	<int>	<dbl>	<dbl>
1	T_Score	DIS_T_Post	DIS_T_Pre	36	36	68	0.0197

```

$SexualConcerns
# A tibble: 1 x 7
  .y.      group1      group2      n1      n2 statistic      p
* <chr>    <chr>      <chr>    <int> <int>    <dbl> <dbl>
1 T_Score SC_T_Post SC_T_Pre     36     36      58.5  0.73

```