

PTSD Meta-Analysis

Code ▾

Load Data and R Packages

R Packages we will use:

► Code

Load Data

Note that I've changed some of the raw data that is incorrect.

I've updated information from the Harb study in the code below which was incorrect.

I've also updated the data extraction for Kakaje usign the data in table 5.

Note that for study 1, the number of men and women (115, 134) adds up 249, but the total is listed as 252, which is due to missing gender information for 3 individuals in the original source.

Presumably this the same issue with study 15 (Pat-Horenczyk).

Data Description

- participants - Number of Participants
- male - Number of Males in the sample
- mpercent - Percentage of males in the sample
- Female - Number of Females in the sample
- fpercent - Percentage of females in the sample
- age - mean age of sample participants
- ptsd - overall % of participants with PTSD in sample
- mptsd - % of males with PTSD in sample
- fptsd - % of females with PTSD in sample

► Code

rowid	participants	male	mpercent	female	fpercent	age	ptsd	mptsd	fptsd	war	aftermath	measure	c
1	252	115	45.60	134	53.20	14.70	35.50	NA	NA	1	9.00	CRIES	L
2	173	NA	37.50	NA	62.50	15.85	79.10	81.00	76.90	1	120.00	CBCL	S
3	403	NA	61.50	NA	38.50	17.50	61.00	58.00	65.00	0	NA	SPTSS	I
4	797	469	58.80	328	41.20	19.90	49.81	NA	NA	0	NA	PCL-5	I
5	231	NA	41.60	NA	58.40	14.90	2.20	NA	NA	1	1.00	CPSS	E
6	1029	496	48.20	533	51.80	13.71	53.50	NA	NA	0	12.00	PTSDSS	C
7	224	120	53.60	104	46.40	15.80	55.80	64.51	48.00	1	120.00	PTSDSS	I
8	64	NA	37.00	NA	63.00	13.50	13.90	0.00	13.90	0	NA	CRIES	C
9	1369	NA	52.80	NA	NA	16.38	53.00	NA	NA	1	108.00	CRIES	S
10	2314	NA	48.40	NA	51.60	13.50	15.00	NA	NA	1	10.00	CPTS-RI	I
11	102	NA	39.22	NA	60.78	14.61	12.30	NA	NA	0	NA	PCL-C	C
12	952	NA	54.70	NA	45.30	15.83	52.20	NA	NA	0	NA	IES-R	C
13	551	284	51.50	267	48.50	16.72	19.50	20.20	18.75	1	48.00	IES-R	L
14	1463	NA	47.40	NA	52.60	13.00	5.30	NA	NA	0	NA	HTQ	L
15	482	NA	46.70	NA	47.70	16.29	5.00	NA	NA	1	2.00	UCLA-PTS	I
16	233	70	30.04	163	69.60	13.49	40.00	NA	NA	0	NA	UCLA-PTS	I
17	1078	536	49.70	542	50.30	13.73	28.60	NA	NA	0	NA	UCLA-PTS	C
18	358	NA	44.10	NA	55.90	16.70	29.80	NA	NA	1	3.00	UCLA-PTS	C
19	430	NA	43.00	245	57.00	15.50	61.20	NA	NA	1	57.00	CRIES	S
20	119	43	36.10	76	63.90	13.50	6.70	4.70	7.90	1	46.32	DSM-5	S

21	314	NA	53.80	NA	45.20	13.37	46.20	NA	NA	0	NA	UCLA-PTS	I:
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Compute Additional Variables

Add missing count data using the extracted percentages

Reformatted percentages so they're from 0-1 and not 0-100

Created mean-centered age variable

Fixed error on the Harb study where males were not measured in their PTSD

► Code

```
 0 1 <NA>
0.0833333333333333 0 1 0
0.1666666666666667 0 1 0
0.25 0 1 0
0.75 0 1 0
0.833333333333333 0 1 0
1 0 1 0
3.86 0 1 0
4 0 1 0
4.75 0 1 0
9 0 1 0
10 0 2 0
<NA> 9 0 0
```

► Code

Cleaned Dataset

► Code

rowid	authors	participants	ptsd_n	male	mpercent	female	fpercent	age	ptsd	mptsd	fptsd	war	aft
1	Fayyad	252	89	115	0.456	134	0.532	14.70	0.355	NA	NA	1	
2	Abu-Kaf	173	137	65	0.375	108	0.625	15.85	0.791	0.810	0.769	1	
3	Al-Hadethé	403	246	248	0.615	155	0.385	17.50	0.610	0.580	0.650	0	
4	Bhat	797	397	469	0.588	328	0.412	19.90	0.498	NA	NA	0	
5	Charak	231	5	96	0.416	135	0.584	14.90	0.022	NA	NA	1	
6	El-Khodary	1029	551	496	0.482	533	0.518	13.71	0.535	NA	NA	1	
7	Freh	224	125	120	0.536	104	0.464	15.80	0.558	0.645	0.480	1	
8	Harb	40	9	0	0.000	40	1.000	13.50	0.900	NA	0.139	0	
9	Kakaje	1353	726	711	0.525	642	0.475	16.38	0.530	0.428	0.643	1	
10	Lavi	2314	347	1120	0.484	1194	0.516	13.50	0.150	NA	NA	1	
11	Rivera	102	13	40	0.392	62	0.608	14.61	0.123	NA	NA	0	
12	Mels	952	497	521	0.547	431	0.453	15.83	0.522	NA	NA	0	
13	Okello	551	107	284	0.515	267	0.485	16.72	0.195	0.202	0.188	1	
14	Osokina	1463	78	693	0.474	770	0.526	13.00	0.053	NA	NA	0	
15	Pat-Horenczyk	482	24	225	0.467	230	0.477	16.29	0.050	NA	NA	1	
16	Shaheen	233	93	70	0.300	163	0.696	13.49	0.400	NA	NA	0	
17	Shoshani	1078	308	536	0.497	542	0.503	13.73	0.286	NA	NA	0	
18	Thabet	358	107	158	0.441	200	0.559	16.70	0.298	NA	NA	1	
19	Uysal	430	263	185	0.430	245	0.570	15.50	0.612	NA	NA	1	
20	Yilmaz	119	8	43	0.361	76	0.639	13.50	0.067	0.047	0.079	1	
21	Shehadeh	314	145	169	0.538	142	0.452	13.37	0.462	NA	NA	0	

Calculate Effect Sizes

► Code

R1) Overall Prevalance (No moderations)

► Code

```
Random-Effects Model (k = 21; tau^2 estimator: ML)
```

```
logLik deviance      AIC      BIC      AICC  
-62.9144    0.7498  129.8287  131.9178  130.4954
```

```
tau^2 (estimated amount of total heterogeneity): 1.6768  
tau (square root of estimated tau^2 value):      1.2949  
I^2 (total heterogeneity / total variability):   99.44%  
H^2 (total variability / sampling variability): 177.97
```

Tests for Heterogeneity:

```
Wld(df = 20) = 1928.4679, p-val < .0001  
LRT(df = 20) = 2748.8914, p-val < .0001
```

Model Results:

```
estimate     se     tval   df   pval    ci.lb    ci.ub  
-0.8766  0.2855 -3.0700  20  0.0060  -1.4723  -0.2810  **  
  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Prediction intervals on logit scale

These results are not helpful as they're on the logit scale, so we need to transform using the logit function below!

► Code

```
pred     se    ci.lb    ci.ub    pi.lb    pi.ub  
-0.8766 0.2855 -1.4723 -0.2810 -3.6427 1.8894
```

Prediction intervals on percentage scale

These results show that the AVERAGE prevalence is 26% 95%CI [.17, .37]

However the prediction intervals are very wide 95% CI [.02, .84].

► Code

```
pred    ci.lb    ci.ub    pi.lb    pi.ub  
0.2939 0.1866 0.4302 0.0255 0.8687
```

Forest Plot

R2) Within-Study Comparison of Men and Women

Prepare Dataset

► Code

authors	male_n	male_ptsd	female_n	female_ptsd	log.odds	log.odds.se
Abu-Kaf	65	53	108	83	0.2854205	0.1542495
Al-Hadethe	248	144	155	101	-0.3007141	0.0449793
Freh	120	77	104	50	0.6595663	0.0747613
Kakaje	711	304	642	413	-0.8815111	0.0125346
Okello	284	57	267	50	0.0859756	0.0465574
Yilmaz	43	2	76	6	-0.5636891	0.7053426

Meta-Analysis

► Code

```
Random-Effects Model (k = 6; tau^2 estimator: ML)
Model Type: Conditional Model with Exact Likelihood

logLik deviance      AIC      BIC      AICC
-20.5090  14.5067  45.0181  44.6016  49.0181

tau^2 (estimated amount of total heterogeneity): 0.2357 (SE = 0.1699)
tau (square root of estimated tau^2 value):       0.4855
I^2 (total heterogeneity / total variability):   81.56%
H^2 (total variability / sampling variability):  5.42

Tests for Heterogeneity:
Wld(df = 5) = 41.4938, p-val < .0001
LRT(df = 5) = 42.1029, p-val < .0001
```

Model Results:

```
estimate     se    tval  df   pval   ci.lb   ci.ub
-0.1162  0.2356 -0.4934  5  0.6426 -0.7218  0.4893

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

► Code

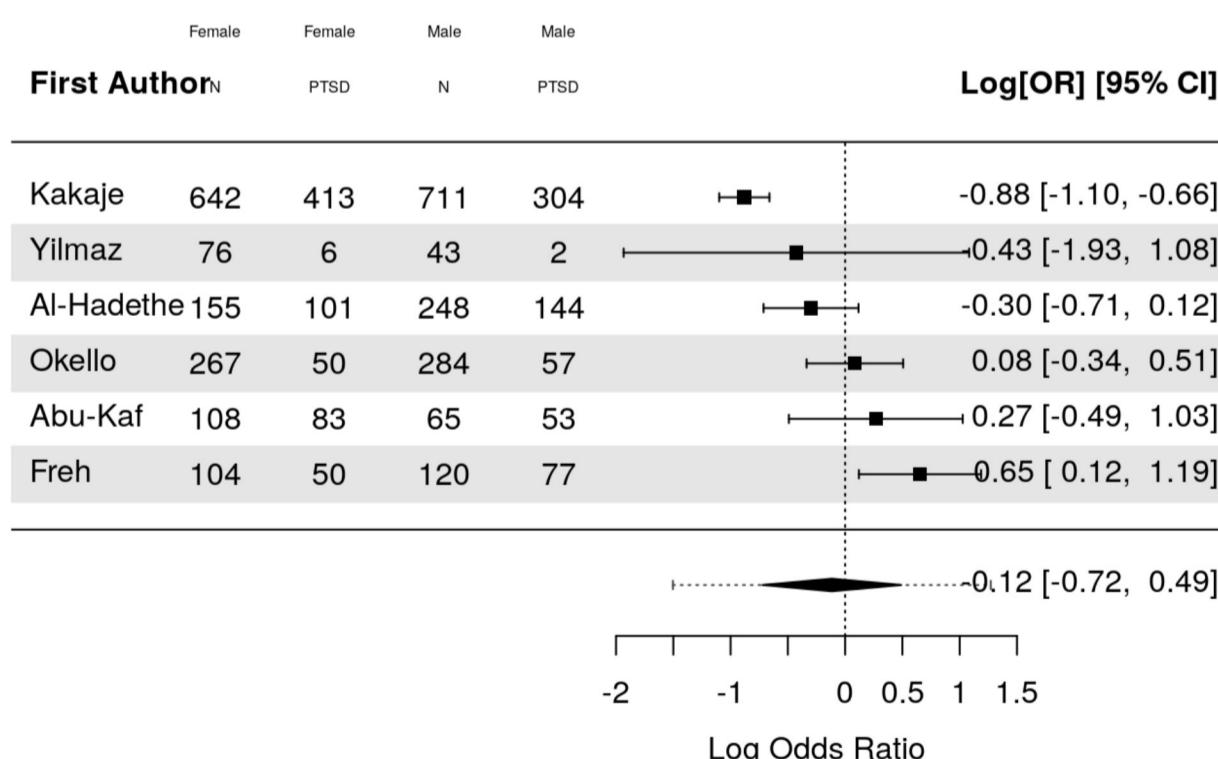
```
pred ci.lb ci.ub pi.lb pi.ub
0.890 0.486 1.631 0.222 3.564
```

Forest Plot

► Code

```
png
2
```

► Code



The above effect is negative, which here indicates that PTSD rates are slightly lower in women across the studies, but the effect is not significant.

R3) Meta-Regressions - age, ongoing war, method of measurement, country income level

► Code

Warning: 9 studies with NAs omitted from model fitting.

Warning: Some yi/vi values are NA.

► Code

```
Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv, :  
Model failed to converge with max|grad| = 0.0021387 (tol = 0.002, component 1)
```

► Code

Warning: 9 studies with NAs omitted from model fitting.

Warning: Some yi/vi values are NA.

► Code

Create Table

► Code

Moderation Tests						
	QM	QMdf_1	QMdf_2	QMp	N Studies	N Participants
Age	2.661	1	19	0.119	21	12898
War	0.097	1	19	0.758	21	12898
Aftermath	8.812	1	10	0.014	12	7516
Measure	6.492	11	9	0.005	21	12898
Economic	0.172	3	17	0.914	21	12898
Quality	1.685	6	14	0.197	21	12898

► Code

group	b	ci.lb	ci.ub
Quality Assessment, F(df1 = 6, df2 = 14) = 1.69, p = .20			
Quality Rating: 1	79.4%	27.7%	97.5%
Quality Rating: 3	13.9%	4.75%	34.4%
Quality Rating: 4	45%	14%	80.4%
Quality Rating: 5	46.2%	8.05%	89.4%
Quality Rating: 6	37.7%	14%	69.2%
Quality Rating: 7	31.7%	15.4%	54.2%
Quality Rating: 9	18.9%	6.82%	42.5%
Aftermath Length, F(df1 = 1, df2 = 10) = 8.81, p = .014			
Intercept	b = -.95	b = -1.67	b = -.23
aftermath_centered	b = .26	b = .06	b = .45
Economic Index, F(df1 = 3, df2 = 17) = 0.17, p = .91			
1	28%	11.2%	54.3%
2	29.9%	9.95%	62.3%
3	40.1%	12.2%	76.4%
4	26.6%	12.2%	48.7%
PTSD Measure, F(df1 = 11, df2 = 9) = 6.49, p = .005			

CBCL	79.3%	49.2%	93.8%
CPSS	2.04%	0.389%	9.99%
CPTS-RI	15%	4.51%	39.7%
CRIES	43.9%	28.2%	60.9%
DSM-5	6.47%	1.44%	24.7%
HTQ	5.3%	1.45%	17.6%
IES-R	34.1%	16.8%	56.9%
PCL-5	49.8%	21%	78.8%
PCL-C	12.5%	3.15%	38.4%
PTSDSS	54.7%	32%	75.6%
SPTSS	61.1%	29.3%	85.6%
UCLA-PTS	26.2%	16.3%	39.3%

Mean Sample Age, $F(df1 = 1, df2 = 19) = 2.66, p = .12$

Intercept	b = -.88	b = -1.44	b = -.32
age_centered	b = .26	b = -.07	b = .59
Ongoing / Aftermath War, $F(df1 = 1, df2 = 19) = .10, p = .76$			
Ongoing War	31.6%	15.7%	53.4%
Aftermath	27.8%	14.9%	45.9%

Additional Plots

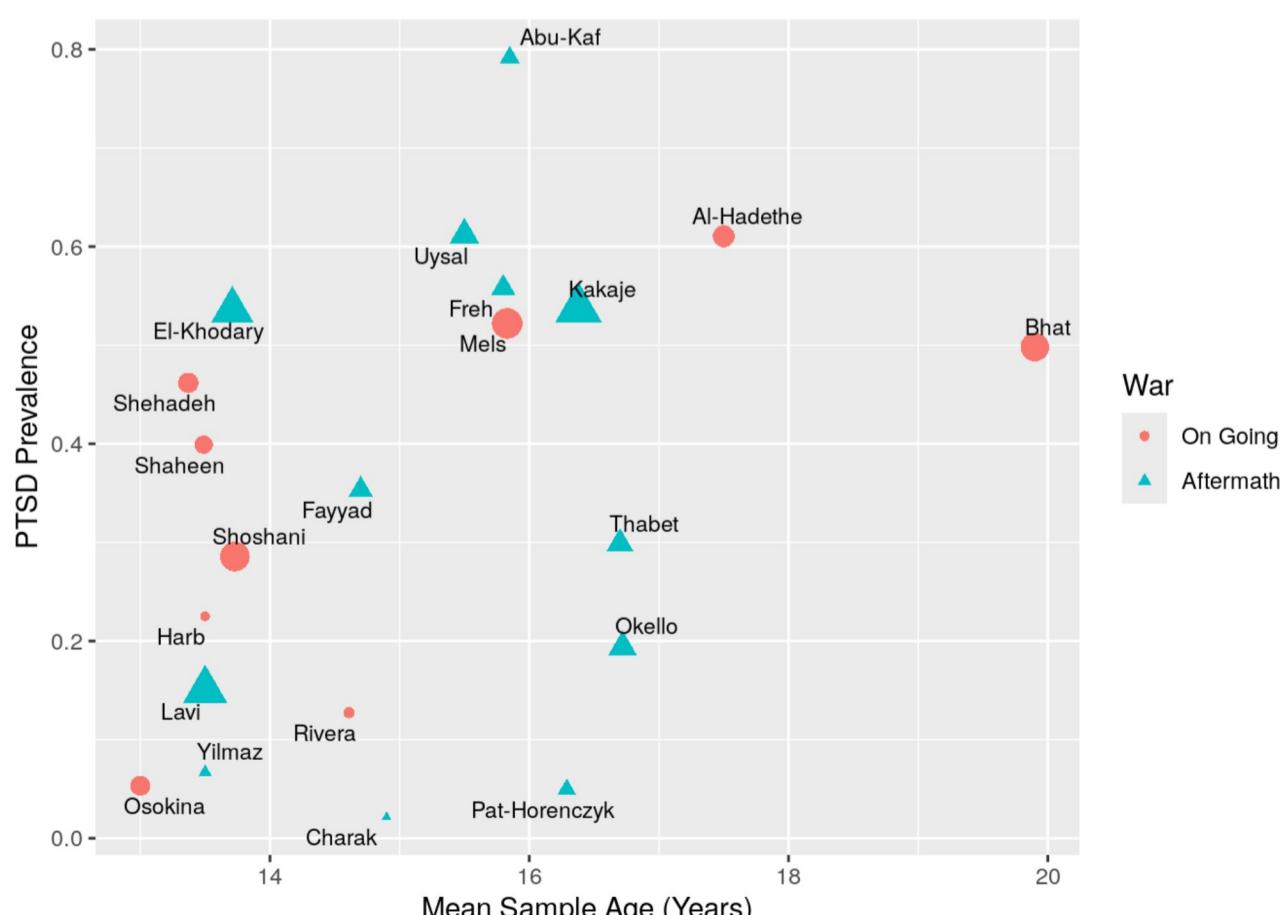
Age

► Code

```
Warning: There was 1 warning in `mutate()`.

  i In argument: `war_factor = forcats::fct_explicit_na(war_factor, na_level =
    "Missing")`.

Caused by warning:
! `fct_explicit_na()` was deprecated in forcats 1.0.0.
  i Please use `fct_na_value_to_level()` instead.
```

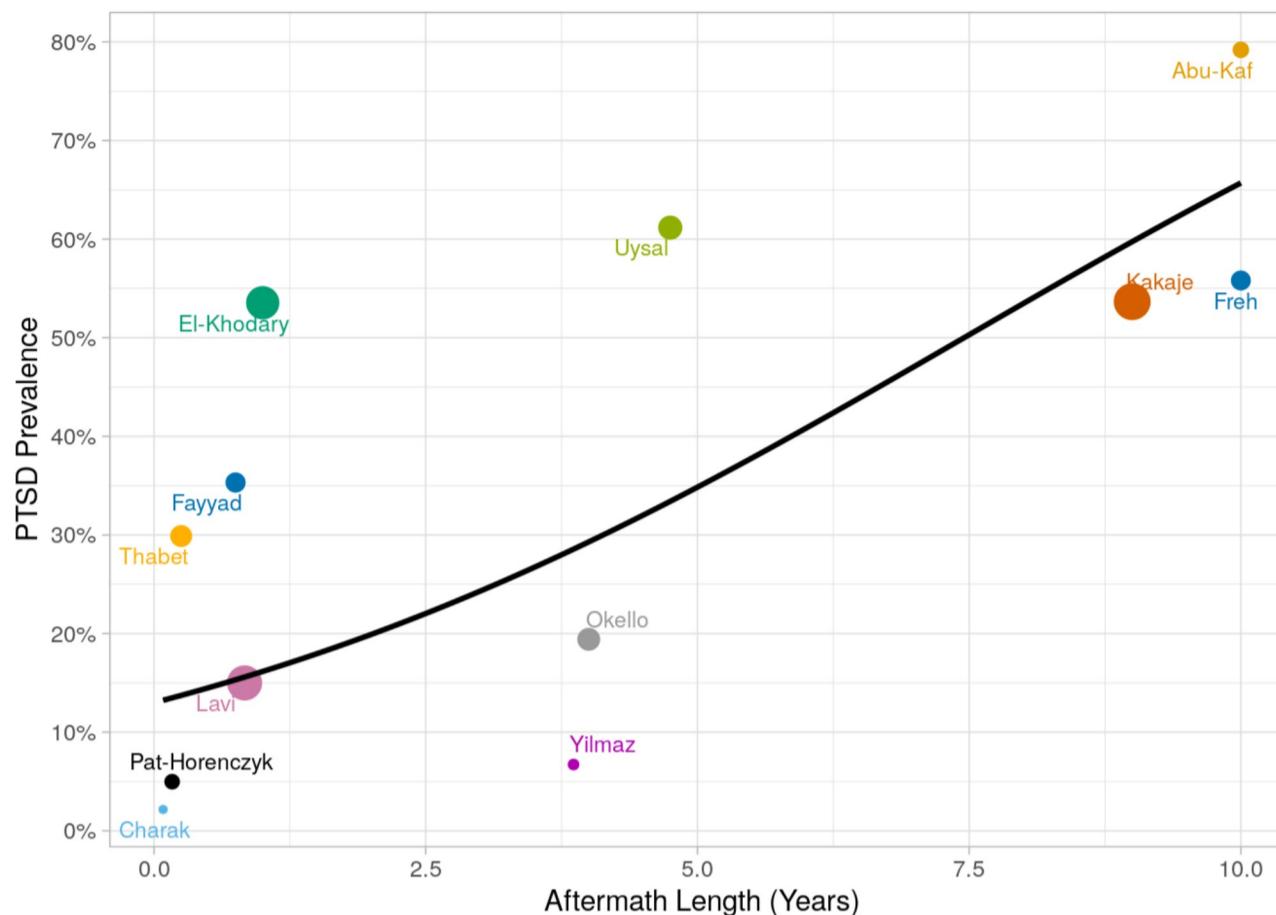


► Code

0 1
9 12

Aftermath

► Code



► Code

Appendix: Model Output

Intercept models

► Code

\$Age

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity): 1.4812
tau (square root of estimated tau^2 value): 1.2171
I^2 (residual heterogeneity / unaccounted variability): 99.33%
H^2 (unaccounted variability / sampling variability): 150.18

Tests for Residual Heterogeneity:

Wld(df = 19) = 1568.4312, p-val < .0001
LRT(df = 19) = 2125.3496, p-val < .0001

Test of Moderators (coefficient 2):

F(df1 = 1, df2 = 19) = 2.6613, p-val = 0.1193

Model Results:

	estimate	se	tval	df	pval	ci.lb	ci.ub
intrcpt	-0.8775	0.2687	-3.2656	19	0.0041	-1.4400	-0.3151 **
age_centered	0.2568	0.1574	1.6314	19	0.1193	-0.0727	0.5863

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

\$War

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity): 1.6703
tau (square root of estimated tau^2 value): 1.2924
I^2 (residual heterogeneity / unaccounted variability): 99.41%
H^2 (unaccounted variability / sampling variability): 169.50

Tests for Residual Heterogeneity:
Wld(df = 19) = 1925.8476, p-val < .0001
LRT(df = 19) = 2748.8847, p-val < .0001

Test of Moderators (coefficient 2):
F(df1 = 1, df2 = 19) = 0.0975, p-val = 0.7583

Model Results:

	estimate	se	tval	df	pval	ci.lb	ci.ub	
intrcpt	-0.7739	0.4350	-1.7793	19	0.0912	-1.6843	0.1365	.
war	-0.1797	0.5757	-0.3122	19	0.7583	-1.3846	1.0252	

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

\$Aftermath

Mixed-Effects Model (k = 12; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity): 1.2269
tau (square root of estimated tau^2 value): 1.1077
I^2 (residual heterogeneity / unaccounted variability): 99.07%
H^2 (unaccounted variability / sampling variability): 107.16

Tests for Residual Heterogeneity:
Wld(df = 10) = 812.6601, p-val < .0001
LRT(df = 10) = 970.4799, p-val < .0001

Test of Moderators (coefficient 2):
F(df1 = 1, df2 = 10) = 8.8124, p-val = 0.0141

Model Results:

	estimate	se	tval	df	pval	ci.lb	ci.ub	
intrcpt	-0.9512	0.3246	-2.9300	10	0.0150	-1.6746	-0.2278	*
aftermath_centered	0.2551	0.0859	2.9686	10	0.0141	0.0636	0.4466	*

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

\$Measure

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity): 0.3352
tau (square root of estimated tau^2 value): 0.5790
I^2 (residual heterogeneity / unaccounted variability): 96.68%
H^2 (unaccounted variability / sampling variability): 30.13

Tests for Residual Heterogeneity:
Wld(df = 9) = 349.0720, p-val < .0001
LRT(df = 9) = 458.0444, p-val < .0001

Test of Moderators (coefficients 2:12):
F(df1 = 11, df2 = 9) = 6.4915, p-val = 0.0045

Model Results:

	estimate	se	tval	df	pval	ci.lb	ci.ub	
intrcpt	1.3458	0.6088	2.2105	9	0.0544	-0.0315	2.7230	.
measureCPSS	-5.2174	0.9582	-5.4449	9	0.0004	-7.3851	-3.0498	***
measureCPTS-RI	-3.0812	0.8422	-3.6585	9	0.0052	-4.9864	-1.1760	**
measureCRIES	-1.5910	0.6806	-2.3378	9	0.0442	-3.1305	-0.0515	*
measureDSM-5	-4.0174	0.9188	-4.3725	9	0.0018	-6.0958	-1.9389	**
measureHTQ	-4.2283	0.8483	-4.9847	9	0.0008	-6.1472	-2.3094	***
measureIES-R	-2.0067	0.7363	-2.7253	9	0.0234	-3.6724	-0.3410	*
measurePCL-5	-1.3535	0.8432	-1.6053	9	0.1429	-3.2609	0.5539	
measurePCL-C	-3.2958	0.8923	-3.6937	9	0.0050	-5.3142	-1.2773	**
measurePTSDSS	-1.1583	0.7374	-1.5709	9	0.1507	-2.8264	0.5098	
measureSPTSS	-0.8954	0.8464	-1.0579	9	0.3177	-2.8100	1.0193	
measureUCLA-PTS	-2.3792	0.6642	-3.5822	9	0.0059	-3.8817	-0.8767	**

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

\$Economic

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity): 1.6344
tau (square root of estimated tau^2 value): 1.2784
I^2 (residual heterogeneity / unaccounted variability): 99.36%
H^2 (unaccounted variability / sampling variability): 155.24

Tests for Residual Heterogeneity:

Wld(df = 17) = 1609.1543, p-val < .0001
LRT(df = 17) = 2385.8758, p-val < .0001

Test of Moderators (coefficients 2:4):

F(df1 = 3, df2 = 17) = 0.1720, p-val = 0.9138

Model Results:

	estimate	se	tval	df	pval	ci.lb	ci.ub
intrcpt	-0.9463	0.5311	-1.7820	17	0.0926	-2.0668	0.1741
factor(econindex)2	0.0962	0.8325	0.1156	17	0.9093	-1.6603	1.8527
factor(econindex)3	0.5452	0.9160	0.5952	17	0.5596	-1.3875	2.4779
factor(econindex)4	-0.0682	0.7000	-0.0974	17	0.9235	-1.5450	1.4086

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

\$Quality

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity): 1.1194
tau (square root of estimated tau^2 value): 1.0580
I^2 (residual heterogeneity / unaccounted variability): 99.12%
H^2 (unaccounted variability / sampling variability): 113.05

Tests for Residual Heterogeneity:

Wld(df = 14) = 1707.2979, p-val < .0001
LRT(df = 14) = 2359.0748, p-val < .0001

Test of Moderators (coefficients 2:7):

F(df1 = 6, df2 = 14) = 1.6850, p-val = 0.1972

Model Results:

	estimate	se	tval	df
intrcpt	1.3465	1.0747	1.2529	14
qualityassessment_factorQuality Rating: 3	-3.1678	1.2065	-2.6256	14
qualityassessment_factorQuality Rating: 4	-1.5481	1.3117	-1.1803	14
qualityassessment_factorQuality Rating: 5	-1.5001	1.5123	-0.9919	14
qualityassessment_factorQuality Rating: 6	-1.8485	1.2367	-1.4948	14
qualityassessment_factorQuality Rating: 7	-2.1143	1.1599	-1.8229	14
qualityassessment_factorQuality Rating: 9	-2.8047	1.2025	-2.3325	14
	pval	ci.lb	ci.ub	
intrcpt	0.2308	-0.9585	3.6514	
qualityassessment_factorQuality Rating: 3	0.0200	-5.7556	-0.5801	*
qualityassessment_factorQuality Rating: 4	0.2576	-4.3615	1.2652	
qualityassessment_factorQuality Rating: 5	0.3381	-4.7437	1.7435	
qualityassessment_factorQuality Rating: 6	0.1572	-4.5009	0.8038	
qualityassessment_factorQuality Rating: 7	0.0897	-4.6020	0.3734	.
qualityassessment_factorQuality Rating: 9	0.0351	-5.3838	-0.2257	*

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

No Intercept Models

► Code

\$Age

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity): 1.4812

```

tau (square root of estimated tau^2 value):           1.2171
I^2 (residual heterogeneity / unaccounted variability): 99.33%
H^2 (unaccounted variability / sampling variability): 150.18

Tests for Residual Heterogeneity:
Wld(df = 19) = 1568.4312, p-val < .0001
LRT(df = 19) = 2125.3496, p-val < .0001

Test of Moderators (coefficient 2):
F(df1 = 1, df2 = 19) = 2.6613, p-val = 0.1193

Model Results:

      estimate      se     tval   df    pval    ci.lb    ci.ub
intrcpt     -0.8775  0.2687  -3.2656  19  0.0041  -1.4400  -0.3151  **
age_centered  0.2568  0.1574   1.6314  19  0.1193  -0.0727   0.5863

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

$War

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity):  1.6704
tau (square root of estimated tau^2 value):          1.2924
I^2 (residual heterogeneity / unaccounted variability): 99.41%
H^2 (unaccounted variability / sampling variability): 169.50

Tests for Residual Heterogeneity:
Wld(df = 19) = 1925.8476, p-val < .0001
LRT(df = 19) = 2748.8847, p-val < .0001

Test of Moderators (coefficients 1:2):
F(df1 = 2, df2 = 19) = 4.7778, p-val = 0.0208

Model Results:

      estimate      se     tval   df    pval    ci.lb    ci.ub
factor(war)0   -0.7739  0.4350  -1.7793  19  0.0912  -1.6843   0.1365 .
factor(war)1   -0.9536  0.3772  -2.5281  19  0.0205  -1.7432  -0.1641  *

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

$Aftermath

Mixed-Effects Model (k = 12; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity):  1.2269
tau (square root of estimated tau^2 value):          1.1077
I^2 (residual heterogeneity / unaccounted variability): 99.07%
H^2 (unaccounted variability / sampling variability): 107.16

Tests for Residual Heterogeneity:
Wld(df = 10) = 812.6601, p-val < .0001
LRT(df = 10) = 970.4799, p-val < .0001

Test of Moderators (coefficient 2):
F(df1 = 1, df2 = 10) = 8.8124, p-val = 0.0141

Model Results:

      estimate      se     tval   df    pval    ci.lb    ci.ub
intrcpt     -0.9512  0.3246  -2.9300  10  0.0150  -1.6746  -0.2278  *
aftermath_centered  0.2551  0.0859   2.9686  10  0.0141   0.0636   0.4466  *

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

$Measure

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity):  0.2252

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tau^2 (estimated amount of residual heterogeneity): 0.000
tau (square root of estimated tau^2 value): 0.5790
I^2 (residual heterogeneity / unaccounted variability): 96.68%
H^2 (unaccounted variability / sampling variability): 30.13

Tests for Residual Heterogeneity:

Wld(df = 9) = 349.0720, p-val < .0001
LRT(df = 9) = 458.0444, p-val < .0001

Test of Moderators (coefficients 1:12):

F(df1 = 12, df2 = 9) = 9.0070, p-val = 0.0013

Model Results:

	estimate	se	tval	df	pval	ci.lb	ci.ub	
measureCBCL	1.3459	0.6088	2.2106	9	0.0544	-0.0314	2.7232	.
measureCPSS	-3.8717	0.7400	-5.2323	9	0.0005	-5.5456	-2.1978	***
measureCPTS-RI	-1.7362	0.5819	-2.9835	9	0.0154	-3.0526	-0.4198	*
measureCRIES	-0.2452	0.3041	-0.8061	9	0.4409	-0.9331	0.4428	
measureDSM-5	-2.6715	0.6881	-3.8825	9	0.0037	-4.2281	-1.1149	**
measureHTQ	-2.8826	0.5907	-4.8804	9	0.0009	-4.2188	-1.5465	***
measureIES-R	-0.6610	0.4142	-1.5959	9	0.1450	-1.5979	0.2759	
measurePCL-5	-0.0076	0.5833	-0.0130	9	0.9899	-1.3272	1.3120	
measurePCL-C	-1.9498	0.6523	-2.9892	9	0.0152	-3.4253	-0.4742	*
measurePTSDSS	0.1873	0.4160	0.4502	9	0.6632	-0.7538	1.1284	
measureSPTSS	0.4502	0.5880	0.7657	9	0.4635	-0.8799	1.7803	
measureUCLA-PTS	-1.0335	0.2655	-3.8929	9	0.0037	-1.6340	-0.4329	**

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

\$Economic

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity): 1.6343
tau (square root of estimated tau^2 value): 1.2784
I^2 (residual heterogeneity / unaccounted variability): 99.36%
H^2 (unaccounted variability / sampling variability): 155.24

Tests for Residual Heterogeneity:

Wld(df = 17) = 1609.1543, p-val < .0001
LRT(df = 17) = 2385.8758, p-val < .0001

Test of Moderators (coefficients 1:4):

F(df1 = 4, df2 = 17) = 2.5422, p-val = 0.0777

Model Results:

	estimate	se	tval	df	pval	ci.lb	ci.ub	
factor(econindex)1	-0.9463	0.5311	-1.7819	17	0.0926	-2.0668	0.1741	.
factor(econindex)2	-0.8501	0.6412	-1.3259	17	0.2024	-2.2028	0.5026	
factor(econindex)3	-0.4012	0.7465	-0.5374	17	0.5980	-1.9762	1.1739	
factor(econindex)4	-1.0146	0.4561	-2.2246	17	0.0399	-1.9768	-0.0523	*

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

\$Quality

Mixed-Effects Model (k = 21; tau^2 estimator: ML)

tau^2 (estimated amount of residual heterogeneity): 1.1194
tau (square root of estimated tau^2 value): 1.0580
I^2 (residual heterogeneity / unaccounted variability): 99.12%
H^2 (unaccounted variability / sampling variability): 113.05

Tests for Residual Heterogeneity:

Wld(df = 14) = 1707.2979, p-val < .0001
LRT(df = 14) = 2359.0748, p-val < .0001

Test of Moderators (coefficients 1:7):

F(df1 = 7, df2 = 14) = 3.3943, p-val = 0.0246

Model Results:

	estimate	se	tval	df
qualityassessment_factorQuality Rating: 1	1.3464	1.0746	1.2529	14
qualityassessment_factorQuality Rating: 3	-1.8214	0.5484	-3.3211	14
qualityassessment_factorQuality Rating: 4	-0.2017	0.7521	-0.2681	14
qualityassessment_factorQuality Rating: 5	-0.1537	1.0641	-0.1444	14
qualityassessment_factorQuality Rating: 6	-0.5021	0.6119	-0.8205	14
qualityassessment_factorQuality Rating: 7	-0.7679	0.4364	-1.7597	14
qualityassessment_factorQuality Rating: 9	-1.4583	0.5395	-2.7033	14
	pval	ci.lb	ci.ub	
qualityassessment_factorQuality Rating: 1	0.2308	-0.9584	3.6513	
qualityassessment_factorQuality Rating: 3	0.0050	-2.9976	-0.6451	**
qualityassessment_factorQuality Rating: 4	0.7925	-1.8147	1.4114	
qualityassessment_factorQuality Rating: 5	0.8872	-2.4358	2.1285	
qualityassessment_factorQuality Rating: 6	0.4257	-1.8144	0.8103	
qualityassessment_factorQuality Rating: 7	0.1003	-1.7038	0.1680	
qualityassessment_factorQuality Rating: 9	0.0171	-2.6153	-0.3013	*

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