

# Supplement

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## 0.1 Online version

<https://pawelkulawiak.github.io/tsrsupplement/>

## 0.2 R packages

Effect Size Computation for Meta Analysis [1]

```
library(esc)
```

## 0.3 Table 2: Mean differences between dyadic TSR-quality in students with and without EBPs

### 0.3.1 Al-Yagon (2016)

<https://doi.org/10.1177/0022219415620569>

```
# Teacher's availability (TD > EP) (Group C > Group B) (n.s.)
esc_mean_sd(
  grp1m = 76.98,
  grp1sd = 22.53,
  grp1n = 91,
  grp2m = 79.60,
  grp2sd = 20.24,
```

```
grp2n = 99,  
es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d  
Effect Size: -0.1226  
Standard Error: 0.1454  
Variance: 0.0211  
Lower CI: -0.4075  
Upper CI: 0.1623  
Weight: 47.3270
```

```
# Teacher's rejection (EP > TD) (Group B > Group C) (n.s.)  
esc_mean_sd(  
  grp1m = 17.10,  
  grp1sd = 9.92,  
  grp1n = 91,  
  grp2m = 14.29,  
  grp2sd = 7.94,  
  grp2n = 99,  
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d  
Effect Size: 0.3142  
Standard Error: 0.1461  
Variance: 0.0213  
Lower CI: 0.0278  
Upper CI: 0.6006  
Weight: 46.8387
```

### 0.3.2 Baker et al. (2009)

<https://doi.org/10.1177/0143034309106945>

```
# Authoritative teaching (TD > EP) (Typical group > Externalizing group) (statistical  
significance not reported)  
esc_mean_sd(  
  grp1m = 26.83,  
  grp1sd = 9.68,  
  grp1n = 174,  
  grp2m = 29.04,  
  grp2sd = 8.18,  
  grp2n = 519,  
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d  
Effect Size: -0.2576
```

```
Standard Error: 0.0879
Variance: 0.0077
Lower CI: -0.4298
Upper CI: -0.0853
Weight: 129.5039
```

### 0.3.3 Henricsson & Rydell (2004)

<https://doi.org/10.1353/mpq.2004.0012>

```
# Child report (IP > TD) (INT > PF) (n.s.)
esc_mean_se(
  grp1m = 1.51,
  grp1se = .08,
  grp1n = 21 + 23,
  grp2m = 1.52,
  grp2se = .11,
  grp2n = 8 + 17,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and se to effect size d
Effect Size: -0.0189
Standard Error: 0.2505
Variance: 0.0627
Lower CI: -0.5098
Upper CI: 0.4720
Weight: 15.9414
```

```
# Child report (EP > TD) (EXT > PF) (* p < .05)
esc_mean_se(
  grp1m = 1.51,
  grp1se = .08,
  grp1n = 21 + 23,
  grp2m = 1.82,
  grp2se = .11,
  grp2n = 20 + 6,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and se to effect size d
Effect Size: -0.5804
Standard Error: 0.2522
Variance: 0.0636
Lower CI: -1.0747
Upper CI: -0.0862
Weight: 15.7244
```

```
# Conflict (IP > TD) (INT > PF) (** p < .01)
esc_mean_se(
  grp1m = 1.25,
```

```
grp1se = .08,  
grp1n = 21 + 23,  
grp2m = 1.61,  
grp2se = .10,  
grp2n = 8 + 17,  
es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and se to effect size d  
Effect Size: -0.7025  
Standard Error: 0.2575  
Variance: 0.0663  
Lower CI: -1.2072  
Upper CI: -0.1978  
Weight: 15.0821
```

```
# Conflict (EP > TD) (EXT > PF) (***) p < .001  
esc_mean_se(  
  grp1m = 1.25,  
  grp1se = .08,  
  grp1n = 21 + 23,  
  grp2m = 2.29,  
  grp2se = .10,  
  grp2n = 20 + 6,  
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and se to effect size d  
Effect Size: -2.0167  
Standard Error: 0.3004  
Variance: 0.0902  
Lower CI: -2.6055  
Upper CI: -1.4279  
Weight: 11.0816
```

```
# Closeness (TD > IP) (PF > INT) (* p < .05)  
esc_mean_se(  
  grp1m = 4.19,  
  grp1se = .08,  
  grp1n = 21 + 23,  
  grp2m = 3.95,  
  grp2se = .10,  
  grp2n = 8 + 17,  
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and se to effect size d  
Effect Size: 0.4684
```

```
Standard Error: 0.2536
Variance: 0.0643
Lower CI: -0.0287
Upper CI: 0.9654
Weight: 15.5480
```

```
# Closeness (TD > EP) (EXT > PF) (n.s.)
```

```
esc_mean_se(
  grp1m = 4.19,
  grp1se = .08,
  grp1n = 21 + 23,
  grp2m = 4.12,
  grp2se = .10,
  grp2n = 20 + 6,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and se to effect size d
Effect Size: 0.1357
Standard Error: 0.2476
Variance: 0.0613
Lower CI: -0.3496
Upper CI: 0.6211
Weight: 16.3078
```

```
# Dependency (IP > TD) (INT > PF) (***) p < .001)
```

```
esc_mean_se(
  grp1m = 1.63,
  grp1se = .10,
  grp1n = 21 + 23,
  grp2m = 2.26,
  grp2se = .14,
  grp2n = 8 + 17,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and se to effect size d
Effect Size: -0.9450
Standard Error: 0.2631
Variance: 0.0692
Lower CI: -1.4605
Upper CI: -0.4294
Weight: 14.4513
```

```
# Dependency (EP > TD) (EXT > PF) (***) p < .001)
```

```
esc_mean_se(
  grp1m = 1.63,
  grp1se = .10,
  grp1n = 21 + 23,
  grp2m = 2.33,
```

```
grp2se = .14,  
grp2n = 20 + 6,  
es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and se to effect size d  
Effect Size: -1.0411  
Standard Error: 0.2625  
Variance: 0.0689  
Lower CI: -1.5557  
Upper CI: -0.5265  
Weight: 14.5072
```

### 0.3.4 Little & Kobak (2003)

[https://doi.org/10.1207/S15374424JCCP3201\\_12](https://doi.org/10.1207/S15374424JCCP3201_12)

```
# negative teacher events (SEBD > TD) (SED > Comparison) (** p < .001)  
esc_mean_sd(  
  grp1m = 0.96,  
  grp1sd = 1.15, # From Table 1 (total sample SD)  
  grp1n = 40,  
  grp2m = 2.06,  
  grp2sd = 1.15, # From Table 1 (total sample SD)  
  grp2n = 20,  
  es.type = "d")  
  
# positive teacher events (SEBD > TD) (SED > Comparison) (n.s.)  
esc_mean_sd(  
  grp1m = 2.76,  
  grp1sd = 0.74, # From Table 1 (total sample SD)  
  grp1n = 40,  
  grp2m = 2.88,  
  grp2sd = 0.74, # From Table 1 (total sample SD)  
  grp2n = 20,  
  es.type = "d")  
  
# worst day event involving the teacher (SEBD > TD) (SED > Comparison) (** p < .01)  
esc_mean_sd(  
  grp1m = 0.09,  
  grp1sd = .20, # From Table 1 (total sample SD)  
  grp1n = 40,  
  grp2m = 0.26,  
  grp2sd = .20, # From Table 1 (total sample SD)  
  grp2n = 20,  
  es.type = "d")  
  
# best day event involving the teacher (SEBD > TD) (SED > Comparison) (n.s.)  
esc_mean_sd(  
  grp1m = 0.03,  
  grp1sd = 0.09, # From Table 1 (total sample SD)  
  grp1n = 40,  
  grp2m = 0.05,  
  grp2sd = 0.09, # From Table 1 (total sample SD)
```

```
grp2n = 20,  
es.type = "d")
```

### 0.3.5 Longobardi et al. (2019)

<https://doi.org/10.1002/pits.22175>

```
# Warmth (TD > IP) (without SM > with SM) (n.s.)  
esc_mean_sd(  
  grp1m = 0.83,  
  grp1sd = 0.14,  
  grp1n = 15,  
  grp2m = 0.87,  
  grp2sd = 0.11,  
  grp2n = 60,  
  es.type = "d")  
  
# Autonomy support (IP > TD) (with SM > without SM) (n.s.)  
esc_mean_sd(  
  grp1m = .53,  
  grp1sd = .25,  
  grp1n = 15,  
  grp2m = .52,  
  grp2sd = .23,  
  grp2n = 60,  
  es.type = "d")  
  
# Conflict (TD > IP) (without SM > with SM) (n.s.)  
esc_mean_sd(  
  grp1m = .27,  
  grp1sd = .28,  
  grp1n = 15,  
  grp2m = .31,  
  grp2sd = .27,  
  grp2n = 60,  
  es.type = "d")
```

Transformation  $r$  to  $d$  [2]

```
r_to_d <- function(r = NULL) { ((2*r) / sqrt(1 - (r)^2)) |> round(2) |> abs() }  
  
# Closeness (TD > IP) (without SM > with SM) (**p < .01)  
r_to_d(-0.41)  
  
# Conflict (IP > TD) (with SM > without SM) (n.s.)  
r_to_d(0.12)
```

### 0.3.6 Murray & Zvoch (2011)

<https://doi.org/10.1177/1063426609353607>

```
## Child ratings  
  
# Communication (TD > EP) (Nonclinical > Clinical) (n.s.)  
esc_mean_sd(  
  grp1m = 20.53,  
  grp1sd = 5.89,  
  grp1n = 64,
```

```

grp2m = 21.12,
grp2sd = 6.58,
grp2n = 129,
es.type = "d")

# Trust (TD > EP) (Nonclinical > Clinical) (* p < .05)
# Univariate ANOVAs on each of the three measures comprising the multivariate composite
revealed a statistically significant mean difference between clinical groups on relationship
trust
esc_mean_sd(
  grp1m = 14.11,
  grp1sd = 3.70,
  grp1n = 64,
  grp2m = 15.70,
  grp2sd = 3.93,
  grp2n = 129,
  es.type = "d")

# Alienation (EP > TD) (Clinical > Nonclinical) (n.s.)
esc_mean_sd(
  grp1m = 11.78,
  grp1sd = 3.24,
  grp1n = 64,
  grp2m = 10.88,
  grp2sd = 2.95,
  grp2n = 129,
  es.type = "d")

## Teacher ratings

# All of the Bonferroni-corrected univariate tests for both grouping variables [male vs.
female; nonclinical vs. clinical] were statistically significant (p < .05)

# Closeness (TD > EP) (Nonclinical > Clinical) (p < .05)
esc_mean_sd(
  grp1m = 36.49,
  grp1sd = 8.92,
  grp1n = 64,
  grp2m = 42.48,
  grp2sd = 7.61,
  grp2n = 129,
  es.type = "d")

# Conflict (EP > TD) (Clinical > Nonclinical) (p < .05)
esc_mean_sd(
  grp1m = 31.13,
  grp1sd = 7.90,
  grp1n = 64,
  grp2m = 18.30,
  grp2sd = 6.05,
  grp2n = 129,
  es.type = "d")

```

### 0.3.7 Rogers et al. (2015)

<http://dx.doi.org/10.1080/13632752.2014.972039>

```
## teacher reported
```



```
# Bond (TD > EP) (Non-ADHD group > ADHD group) (** p < .01.)
esc_mean_sd(
  grp1m = 4.32,
  grp1sd = .09,
  grp1n = 35,
  grp2m = 4.74,
  grp2sd = .09,
  grp2n = 36,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: -4.6667
Standard Error: 0.4579
Variance: 0.2097
Lower CI: -5.5642
Upper CI: -3.7691
Weight: 4.7684
```

```
# Collaboration (TD > EP) (Non-ADHD group > ADHD group) (** p < .01.)
esc_mean_sd(
  grp1m = 4.02,
  grp1sd = .59,
  grp1n = 35,
  grp2m = 4.63,
  grp2sd = .49,
  grp2n = 36,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: -1.1263
Standard Error: 0.2555
Variance: 0.0653
Lower CI: -1.6271
Upper CI: -0.6255
Weight: 15.3179
```

```
## student-reported
```

```
# Bond (significant interaction effect of ADHD status by gender, * p < .05)
# Boys (EP > TD) (ADHD > Non-ADHD)
esc_mean_sd(
  grp1m = 4.08,
  grp1sd = .97,
  grp1n = 35 * 0.75,
  grp2m = 4.00,
  grp2sd = .87,
  grp2n = 36 * 0.37,
  es.type = "d")
```

### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: 0.0853
Standard Error: 0.3365
Variance: 0.1133
Lower CI: -0.5744
Upper CI: 0.7449
Weight: 8.8291
```

```
# Girls (TD > EP) (Non-ADHD > ADHD)
```

```
esc_mean_sd(
  grp1m = 3.98,
  grp1sd = .84,
  grp1n = 35 * 0.25,
  grp2m = 4.69,
  grp2sd = .41,
  grp2n = 36 * 0.63,
  es.type = "d")
```

### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: -1.2759
Standard Error: 0.4293
Variance: 0.1843
Lower CI: -2.1173
Upper CI: -0.4346
Weight: 5.4266
```

```
# Collaboration (significant interaction effect of ADHD status by gender, ** p < .01)
```

```
# Boys (TD > EP) (Non-ADHD > ADHD)
```

```
esc_mean_sd(
  grp1m = 3.92,
  grp1sd = .56,
  grp1n = 35 * 0.75,
  grp2m = 4.07,
  grp2sd = .54,
  grp2n = 36 * 0.37,
  es.type = "d")
```

### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: -0.2710
Standard Error: 0.3378
Variance: 0.1141
Lower CI: -0.9330
Upper CI: 0.3911
Weight: 8.7644
```

```
# Girls (TD > EP) (Non-ADHD > ADHD)
esc_mean_sd(
  grp1m = 3.59,
  grp1sd = .71,
  grp1n = 35 * 0.25,
  grp2m = 4.39,
  grp2sd = .39,
  grp2n = 36 * 0.63,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: -1.6169
Standard Error: 0.4472
Variance: 0.2000
Lower CI: -2.4934
Upper CI: -0.7405
Weight: 5.0008
```

### 0.3.8 Vervoort et al. (2015)

<https://doi.org/10.1080/17405629.2014.989984>

```
# CARTS closeness (TD > SEBD) (General education > Special education) (statistical
significance not reported)
esc_mean_sd(
  grp1m = 3.96,
  grp1sd = 1.05,
  grp1n = 82,
  grp2m = 4.19,
  grp2sd = 0.83,
  grp2n = 145,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: -0.2513
Standard Error: 0.1387
Variance: 0.0192
Lower CI: -0.5231
Upper CI: 0.0205
Weight: 52.0000
```

```
# CARTS conflict (SEBD > TD) (Special education > General education) (statistical significance
not reported)
esc_mean_sd(
  grp1m = 2.69,
  grp1sd = 1.07,
  grp1n = 82,
  grp2m = 1.72,
  grp2sd = 0.72,
```

```
grp2n = 145,  
es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d  
Effect Size: 1.1246  
Standard Error: 0.1479  
Variance: 0.0219  
Lower CI: 0.8347  
Upper CI: 1.4145  
Weight: 45.7091
```

```
# CARTS dependency (TD > SEBD) (General education > Special education) (statistical  
significance not reported)  
esc_mean_sd(  
  grp1m = 3.59,  
  grp1sd = 1.03,  
  grp1n = 82,  
  grp2m = 3.12,  
  grp2sd = 0.97,  
  grp2n = 145,  
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d  
Effect Size: 0.4738  
Standard Error: 0.1400  
Variance: 0.0196  
Lower CI: 0.1995  
Upper CI: 0.7481  
Weight: 51.0566
```

### 0.3.9 Zweers et al. (2021)

<https://doi.org/10.1177/0165025420915527>

```
# Student-teacher conflict (SEBD in SE > TD; SEBD in RE > TD) (SEBD in SE > TD: non overlapping  
Bayesian 95% CI)
```

```
# M (SEBD in SE)  
(2.373 + 2.818) / 2 # Bayesian 95% CI [2.373; 2.818]
```

```
[1] 2.5955
```

```
# M (SEBD in RE)  
(1.544 + 2.482) / 2 # Bayesian 95% CI [1.544, 2.482]
```

```
[1] 2.013
```

```
# M (TD)
(1.464 + 1.640) / 2 # Bayesian 95% CI [1.464, 1.640]
```

```
[1] 1.552
```

## 0.4 Table 3: Mean differences between dyadic TSR-quality as perceived by students with EBPs and their teachers

### 0.4.1 Knowles et al. (2020)

<https://doi.org/10.1177/0734282919874268>

```
# Bond (SP > TP) (student > teacher) (significance not reported)
esc_mean_sd(
  grp1m = 4.34,
  grp1sd = 0.79,
  grp1n = 182,
  grp2m = 4.11,
  grp2sd = 0.61,
  grp2n = 76,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: 0.3101
Standard Error: 0.1373
Variance: 0.0188
Lower CI: 0.0410
Upper CI: 0.5791
Weight: 53.0822
```

```
# Task/goal (SP > TP) (student > teacher) (significance not reported)
esc_mean_sd(
  grp1m = 3.91,
  grp1sd = 0.74,
  grp1n = 182,
  grp2m = 3.51,
  grp2sd = 0.63,
  grp2n = 76,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: 0.5637
Standard Error: 0.1388
Variance: 0.0193
Lower CI: 0.2917
Upper CI: 0.8358
Weight: 51.8987
```

#### 0.4.2 Van Loan & Garwood (2020)

<https://doi.org/10.1177/1534508418786779>

```
# conflict in the relationship (SP > TP) (student > teacher) (p ** < .01 | independent
sample t test)
esc_mean_sd(
  grp1m = 2.53,
  grp1sd = 0.83,
  grp1n = 92,
  grp2m = 2.95,
  grp2sd = 0.97,
  grp2n = 92,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: -0.4653
Standard Error: 0.1494
Variance: 0.0223
Lower CI: -0.7581
Upper CI: -0.1724
Weight: 44.7881
```

```
# closeness in the relationship (SP > TP) (student > teacher) (not significant | independent
sample t test)
esc_mean_sd(
  grp1m = 3.17,
  grp1sd = 0.59,
  grp1n = 92,
  grp2m = 3.37,
  grp2sd = 0.97,
  grp2n = 92,
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d
Effect Size: -0.2491
Standard Error: 0.1480
Variance: 0.0219
Lower CI: -0.5392
Upper CI: 0.0410
Weight: 45.6459
```

#### 0.4.3 Vervoort et al. (2015)

<https://doi.org/10.1080/17405629.2014.989984>

```
# CARTS closeness (SP > TP) (student > teacher) (significance not reported)
esc_mean_sd(
  grp1m = 3.96,
  grp1sd = 1.05,
  grp1n = 82,
```

```
grp2m = 3.65,  
grp2sd = 0.65,  
grp2n = 82,  
es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d  
Effect Size: 0.3550  
Standard Error: 0.1574  
Variance: 0.0248  
Lower CI: 0.0465  
Upper CI: 0.6635  
Weight: 40.3641
```

```
# CARTS conflict (SP > TP) (student > teacher) (significance not reported)  
esc_mean_sd(  
  grp1m = 2.69,  
  grp1sd = 1.07,  
  grp1n = 82,  
  grp2m = 2.29,  
  grp2sd = 0.83,  
  grp2n = 82,  
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d  
Effect Size: 0.4177  
Standard Error: 0.1579  
Variance: 0.0249  
Lower CI: 0.1083  
Upper CI: 0.7271  
Weight: 40.1248
```

```
# STRS dependency (SP > TP) (student > teacher) (significance not reported)  
esc_mean_sd(  
  grp1m = 3.59,  
  grp1sd = 1.03,  
  grp1n = 82,  
  grp2m = 2.60,  
  grp2sd = 0.78,  
  grp2n = 82,  
  es.type = "d")
```

#### Effect Size Calculation for Meta Analysis

```
Conversion: mean and sd to effect size d  
Effect Size: 1.0836  
Standard Error: 0.1672  
Variance: 0.0280
```

Lower CI: 0.7558  
Upper CI: 1.4114  
Weight: 35.7522

## 0.5 R session

`sessionInfo()`

```
R version 4.4.1 (2024-06-14 ucrt)
Platform: x86_64-w64-mingw32/x64
Running under: Windows 11 x64 (build 22631)

Matrix products: default

locale:
 [1] LC_COLLATE=German_Germany.utf8  LC_CTYPE=German_Germany.utf8
 [3] LC_MONETARY=German_Germany.utf8 LC_NUMERIC=C
 [5] LC_TIME=German_Germany.utf8

time zone: Europe/Berlin
tzcode source: internal

attached base packages:
[1] stats      graphics  grDevices  utils      datasets  methods   base

other attached packages:
[1] esc_0.5.1

loaded via a namespace (and not attached):
 [1] compiler_4.4.1    fastmap_1.2.0     cli_3.6.3         tools_4.4.1
 [5] htmltools_0.5.8.1 rstudioapi_0.16.0 yaml_2.3.9        rmarkdown_2.27
 [9] knitr_1.47        jsonlite_1.8.8    xfun_0.45         digest_0.6.36
[13] rlang_1.1.4       evaluate_0.24.0
```

## Bibliography

- [1] D. Lüdtke, “esc: Effect Size Computation for Meta Analysis (Version 0.5.1),” 2019, doi: 10.5281/zenodo.1249218.
- [2] J. Ruscio, “A probability-based measure of effect size: Robustness to base rates and other factors.,” *Psychological Methods*, vol. 13, no. 1, pp. 19–30, 2008, doi: 10.1037/1082-989x.13.1.19.