**Supplemental Materials**

**Dissociation In Victims of Childhood Abuse or Neglect: A Meta-Analytic Review**

**by R. Vonderlin et al., 2018, *submitted to Psychological Medicine***

Appendix A: Table of included studies and study information

Table A1.

*Included studies in the meta-analysis and extracted study information.*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| # | Cite | report | DES | abuse/neglect types | single/comb | population | control | moderator information | assess |
| 1 | Agargun (2003) | article | 2 | SA, PA | no / no | students | no |  | 1 |
| 2 | Akyuz (2005) | article | 5 | SA, PA, EA, PN, EN | no / no | general population | yes | onset, parent | 4 |
| 3 | Akyuz (2007) | article | 4 | SA, PA, EA, N | no / no | prisoners | yes |  | 4 |
| 4 | Alvarez (2015) | article | 10 | SA, PA, EA, PN, EN | no / no | patients, general population | no |  | 4 |
| 5 | Anderson (1993) | article | 1 | SA | no / no | patients | no | onset, duration | 3 |
| 6 | Anderson (1996) | article | 1 | SA | no / no | patients | no | penetr, parent | 0 |
| 7 | Atlas (1994) | article | 3 | SA, PA | yes / yes | patients | no |  | 3 |
| 8 | Beddard-Gilligan (2015) | article | 1 | A | no / no | patients | yes |  | 2 |
| 9 | Bieber (1997) | dissert | 3 | SA, PA | yes / yes | patients | no | onset, duration, penetr, parent | 4 |
| 10 | Boysan (2009) | article | 3 | SA, PA | yes / yes | students | no | none | 0 |
| 11 | Brodsky (1994) | dissert | 5 | A, SA, PA | yes / yes | inpatients | yes | onset, penetr, parent | 1 |
| 12 | Brown (1997) | dissert | 1 | SA | no / no | general population | no | onset, duration, parent | 0 |
| 13 | Campbell (2000) | dissert | 3 | SA, PA, EA | no / no | prisoners | yes | onset | 1 |
| 14 | Castro-Fernandez (2015) | article | 2 | SA, PA | no / no | patients | no |  | 4 |
| 15 | Chard (2005) | article | 1 | SA | no / no | general population | no | onset | 4 |
| 16 | Chu (1999) | article | 2 | SA, PA | no / no | patients | yes | onset | 4 |
| 17 | Draijer (1999) | article | 6 | SA, PA | yes / yes | patients | yes | penetr, parent | 3 |
| 18 | Dunn (1994) | article | 1 | A | no / no | patients | yes |  | 0 |
| 19 | Egeland (1995) | article | 1 | A | no / no | general population | no |  | 0 |
| 20 | Eisen (1993) | article | 1 | A | no / no | students | yes |  | 0 |
| 21 | Eisen (1998) | article | 2 | SA, PA | no / no | students | yes |  | 0 |
| 22 | Elhai (2001a) | article | 1 | SA | no / no | patients | no |  | 3 |
| 23 | Elhai (2001b) | article | 1 | SA | no / no | patients | no | onset, penetr | 3 |
| 24 | Ellason (1996) | article | 1 | SA, PA | no / yes | patients | no |  | 3 |
| 25 | Ellason (2003) | article | 2 | A | no / no | patients | no |  | 0 |
| 26 | Everill (1995) | article | 1 | SA | no / no | patients | yes | onset, duration | 2 |
| 27 | Ferguson (1997) | article | 3 | SA, PA, EA | yes / no | general population | yes |  | 4 |
| 28 | Fisher (2000) | dissert | 1 | SA | no / no | general population | no | onset, duration, penetr, parent | 2 |
| 29 | Francia-Martinez (2003) | article | 3 | A, SA | no / no | patients | no |  | 4 |
| 30 | Geraerts (2006) | article | 1 | SA | no / no | general population | no |  | 0 |
| 31 | Goff (1991) | article | 1 | A | no / no | patients | yes |  | 0 |
| 32 | Gold (1999) | article | 1 | SA | no / no | patients | no | onset, duration, penetr, parent | 2 |
| 33 | Gold (2008) | article | 2 | SA | no / no | general population | no | onset, duration | 2 |
| 34 | Granot (2011) | article | 1 | SA | no / no | patients | no | onset, duration | 1 |
| 35 | Hansen (1997) | article | 2 | SA | no / no | patients | no | onset, duration, parent | 3 |
| 36 | Herzog (1993) | article | 1 | SA | no / no | patients | yes | onset, penetr, parent | 2 |
| 37 | Keaney (1996) | article | 2 | SA | no / no | patients | yes | onset, duration, penetr, parent | 3 |
| 38 | Leavitt (1994) | article | 1 | SA | no / no | patients | yes | onset, duration, penetr, parent | 3 |
| 39 | Lipschitz (1996) | article | 7 | SA, PA | yes / yes | patients | no | parent | 4 |
| 40 | Mayran (1995) | dissert | 1 | SA | no / no | patients | no | duration, penetr | 3 |
| 41 | McCarthy (1994) | article | 2 | SA, PA | no / no | patients | yes |  | 4 |
| 42 | Negata (1999) | article | 1 | PA | no / no | patients | yes |  | 1 |
| 43 | Offen (2003) | article | 1 | SA | no / no | patients | yes |  | 0 |
| 44 | Peles (2012) | article | 2 | SA | no / no | patients | no | onset, penetr | 4 |
| 45 | Peles (2014) | article | 2 | SA | no / no | general population, patients | no | onset | 1 |
| 46 | Peles (2016) | article | 2 | SA | no / no | general population, patients | no | onset | 1 |
| 47 | Pribor (1993) | article | 3 | SA, PA, EA | no / no | patients | yes |  | 1 |
| 48 | Roelofs (2002) | article | 3 | SA, PA, EN | no / no | patients | no | duration | 3 |
| 49 | Romans (1999) | article | 4 | SA | no / no | general population | yes | onset, penetr | 1 |
| 50 | Sanders (1989) | article | 2 | PA, EA | no / yes | students | yes |  | 1 |
| 51 | Schultz (2001) | dissert | 1 | SA | no / no | students | no | penetr | 0 |
| 52 | Shearer (1994) | article | 3 | SA, PA | yes / yes | patients | yes |  | 3 |
| 53 | Stoler (2001) | dissert | 1 | SA | no / no | general population | no | onset, parent | 0 |
| 54 | Sullivan (2003) | dissert | 3 | SA, PA | yes / yes | patients | no |  | 0 |
| 55 | Swett (1993) | article | 3 | SA, PA | yes / yes | patients | yes | onset, parent | 4 |
| 56 | Terock (2016) | article | 10 | A, SA, PA, EA, EN, PN | yes / yes | patients | no |  | 4 |
| 57 | Twaite (2004) | article | 2 | SA, PA | no / no | general population | yes |  | 1 |
| 58 | van den Bosch (2003) | article | 4 | SA, PA, N | yes / yes | patients | yes |  | 3 |
| 59 | Vogel (2009) | article | 5 | SA, PA, EA, EN, PN | no / no | patients | no |  | 4 |
| 60 | Waldinger (1994) | article | 6 | SA, PA | no / no | patients | yes | onset | 1 |
| 61 | Yuecel (2002) | article | 2 | A, N | no / no | patients | yes |  | 4 |
| 62 | Zelikovsky (2002) | article | 2 | PA, EA | yes / yes | students | yes |  | 4 |
| 63 | Zingman (2006) | dissert | 1 | SA | no / no | prisoners | no |  | 4 |
| 63 | Zlotnik (1995) | article | 2 | SA, PN | no / yes | patients | yes | onset, penetr, parent | 2 |
| 65 | Zlotnik (1996) | article | 1 | SA, PA | no / yes | patients | yes | onset, parent | 0 |

*Note.* A = abuse; N = neglect; SA = sexual abuse; PA = physical abuse; EA = emotional abuse; PN = physical neglect; EN = emotional neglect; single = only one abuse type is present; comb = combination of abuse types is present; DES = number of dissociative experience scale scores extracted; assess = method to assess maltreatment: 0 – single item measure, 1 - measure developed for the current study, 2 - unstructered interview, 3 - structured interview, 4 - application of validated questionnaire, 1data was provided by contacted author and is not available from the primary paper.

Table A2.

*DES Scores for single and combined experiences of abuse and neglect.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Diagnostic Group | K | k | N | M | 95% CI | I2 | Q |
| **Single Experiences** |  |  |  |  |  |  |  |
| Sexual Abuse | 12 | 12 | 363 | 20.7 | [17.8, 23.6] | 70.6% | 36.3\*\* |
| Physical Abuse | 11 | 11 | 484 | 19.8 | [17.2, 22.4] | 65.3% | 28.6\*\* |
| Emotional Abuse | 3 | 3 | 266 | 14.8 | [8.7, 20.9] | 94.9% | 49.4\*\* |
| **Combined Experiences** |  |  |  |  |  |  |  |
| Physical & Sexual Abuse | 13 | 13 | 687 | 33.4 | [28.5, 38.3] | 90.4% | 185.8\*\* |
| Physical & Emotional Abuse | 2 | 2 | 127 | 20.3 | [14.6, 25.9] | 78.9% | 4.7\* |

*Note.* K = number of samples. k = number of studies. N = sample size. M = mean DES score. CI = 95 % Confidence interval. I2 = heterogeneity statistic. Q= Cochran’s Q heterogeneity statistic.

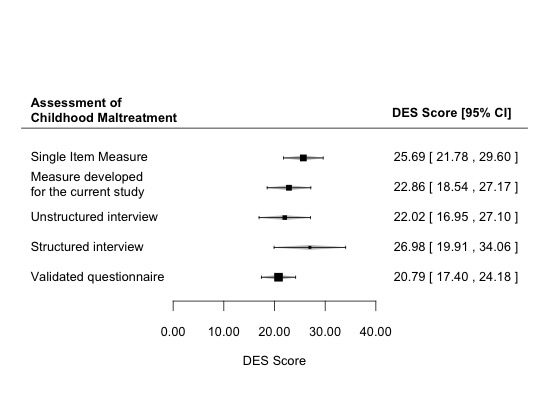
\* p < .05; \*\* p < .01

Table A3.

*Summary of Intercorrelations of abuse characteristic variables.*

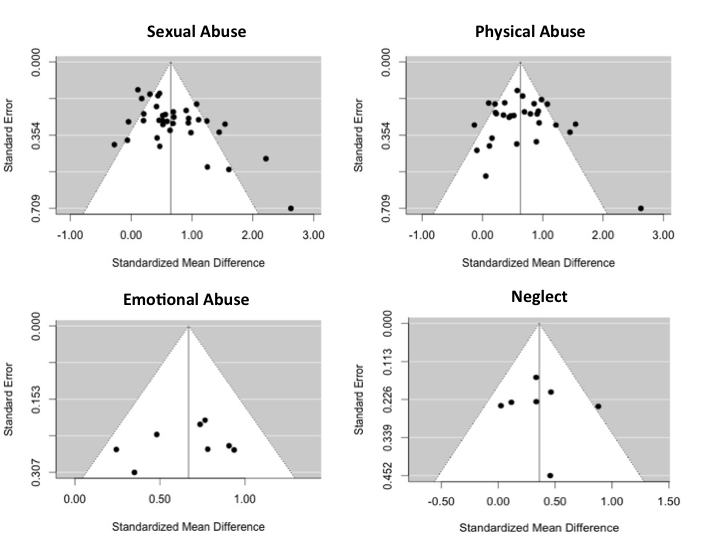
|  |  |  |  |
| --- | --- | --- | --- |
| Abuse Characteristic | 1. | 2. | 3. |
| 1. Age of onset | - |  |  |
| 2. Duration | - .66\*\* | - |  |
| 3. Penetration | -. 34 | .61 | - |
| 4. Parental Abuse | -. 52\*\* | .82\*\* | .16 |

*Note.* \* p < .05; \*\* p < .01

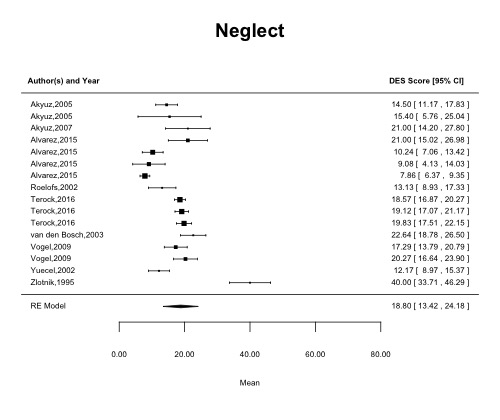


*Figure A1.* Assessment of childhood maltreatment and DES scores.

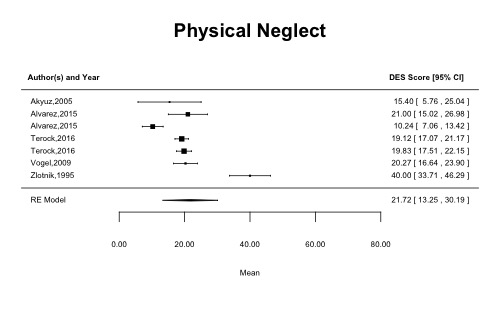
**Appendix B: Funnel Plots of Standardized Mean Difference Scores for abuse subtypes and neglect**

*Figure B1.* funnel plots of standardized mean difference scores for abuse subtypes and neglect

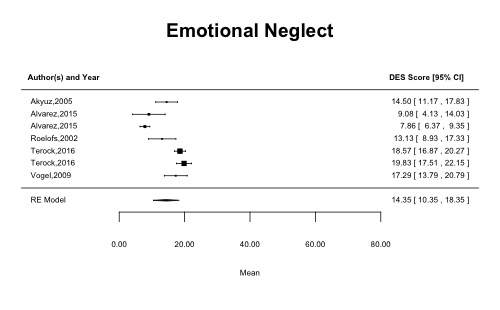
**Appendix C: Forest Plots of Abuse/Neglect Subgroup Analysis**



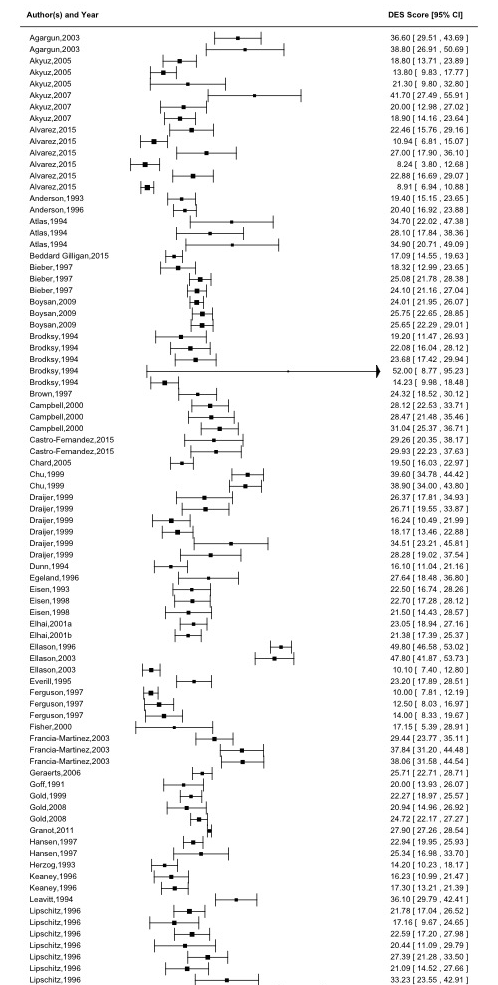
*Figure C.1* Descriptive data of studies reporting DES scores for all types of neglect



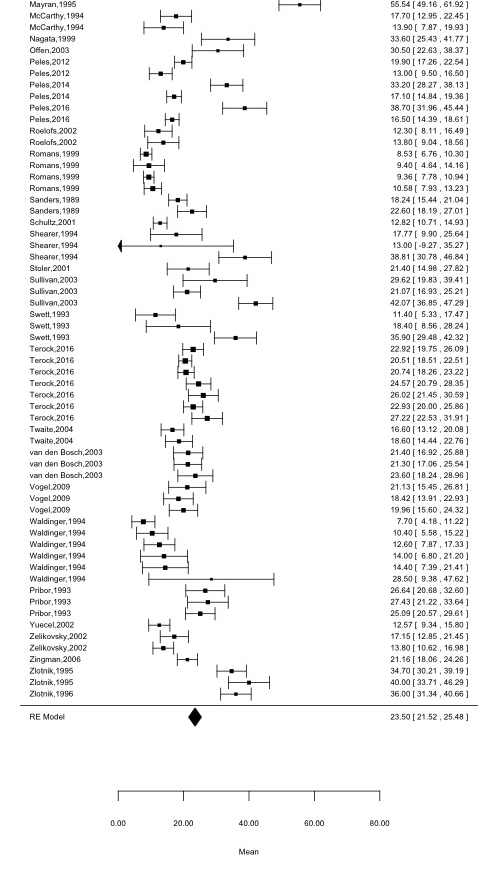
*Figure C.2* Descriptive data of studies reporting DES scores for physical neglect



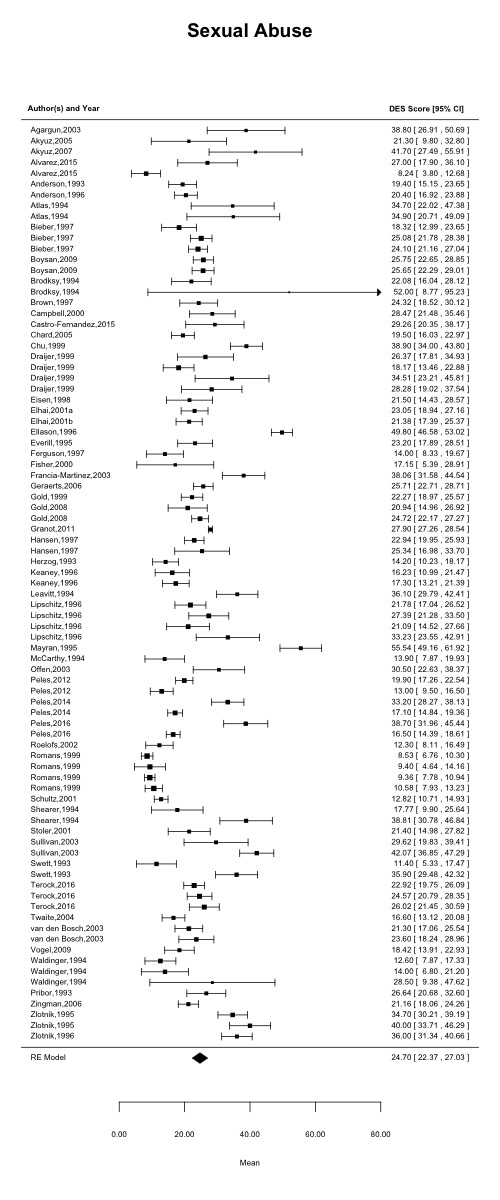
*Figure C.3* Descriptive data of studies reporting DES scores for emotional neglect



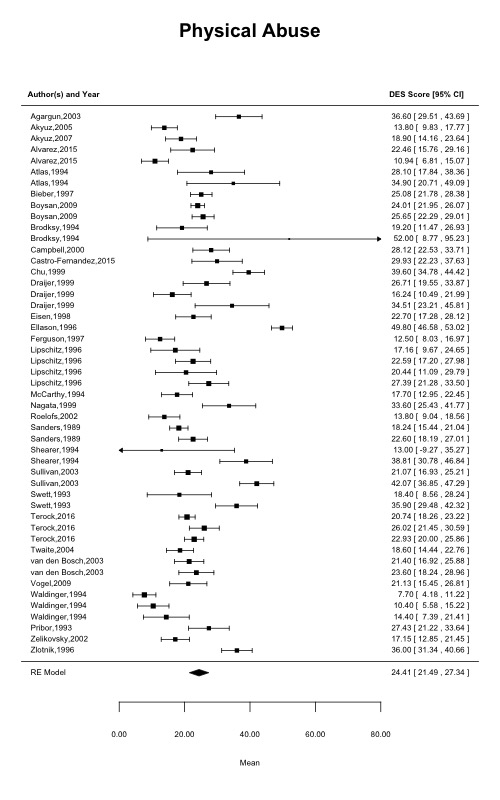
to be continued on the next page



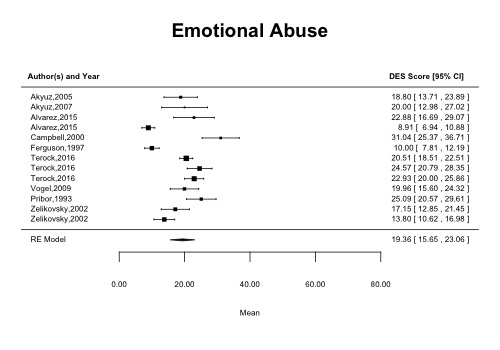
*Figure C.4* Descriptive data of studies reporting DES scores for all types of abuse



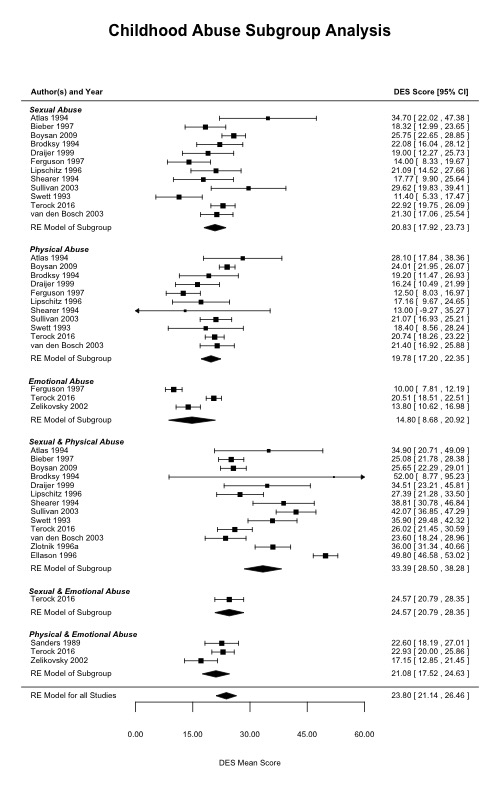
*Figure C.5* Descriptive data of studies reporting DES scores for sexual abuse



*Figure C.6* Descriptive data of studies reporting DES scores for physical abuse



*Figure C.7* Descriptive data of studies reporting DES scores for emotional abuse



*Figure C.8* Descriptive data of studies reporting DES scores for single types of sexual abuse, physical abuse, emotional abuse and combinations of sexual and physical abuse, sexual and emotional abuse, physical and emotional abuse.

# Appendix D: References included in the Meta-Analysis

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