

Supplementary Materials: Effects of Media Sensationalization on Cognitive Performance and Post Concussive Symptoms

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Original Source Data for Meta-Analysis

	DT_M	DT_S	DT_N	C_M	C_S	C_N	yi	vi
Suhr & Gunstad 2002 AVLT IR	11.50	2.50	17	12.10	1.80	19	-0.27	0.11
Suhr & Gunstad 2002 AVLT DR	11.10	3.00	17	12.40	1.80	19	-0.52	0.12
Suhr & Gunstad 2002 CFT DR	21.20	5.20	17	23.60	3.40	19	-0.54	0.12
Suhr & Gunstad 2002 Information	10.40	1.80	17	11.80	2.10	19	-0.70	0.12
Suhr & Gunstad 2002 Block Design	11.20	2.70	17	13.70	3.20	19	-0.82	0.12
Suhr & Gunstad 2002 Digit Span	11.10	2.60	17	11.50	2.90	19	-0.14	0.11
Suhr & Gunstad 2002 LNS	11.30	2.50	17	11.80	2.80	19	-0.18	0.11
Suhr & Gunstad 2002 TMT-A	23.70	7.90	17	21.90	7.00	19	-0.24	0.11
Suhr & Gunstad 2002 TMT-B	53.10	15.80	17	48.30	15.30	19	-0.30	0.11
Suhr & Gunstad 2002 COWAT	39.50	6.90	17	39.30	8.90	19	0.02	0.11
Suhr & Gunstad 2005 CFT DR	18.80	7.10	28	23.20	4.50	25	-0.72	0.08
Suhr & Gunstad 2005 WMT PA	95.70	6.20	28	98.20	3.50	25	-0.48	0.08
Suhr & Gunstad 2005 WMT FR	68.40	12.30	28	70.10	13.50	25	-0.13	0.08
Suhr & Gunstad 2005 WMT DR	72.40	11.90	28	74.70	14.00	25	-0.18	0.08
Suhr & Gunstad 2005 TMT-A	24.90	9.10	28	22.80	6.60	25	-0.26	0.08
Suhr & Gunstad 2005 Coding	11.60	1.70	28	12.80	2.10	25	-0.62	0.08
Suhr & Gunstad 2005 Digit Span	9.80	2.10	28	11.40	2.20	25	-0.73	0.08
Suhr & Gunstad 2005 LNS	10.30	2.10	28	12.20	2.10	25	-0.89	0.08
Suhr & Gunstad 2005 Arithmetic	10.20	2.20	28	11.60	2.10	25	-0.64	0.08
Suhr & Gunstad 2005 TMT-B	47.50	9.90	28	44.20	12.00	25	-0.30	0.08
Suhr & Gunstad 2005 WCST Categories	5.80	0.60	28	6.00	0.00	25	-0.45	0.08
Suhr & Gunstad 2005 WCST FMS	0.50	0.80	28	0.40	0.70	25	-0.13	0.08
Suhr & Gunstad 2005 WCST PPE	20.00	8.80	28	17.70	6.40	25	-0.29	0.08
Kinkela 2008 AVLT Total	52.00	5.61	15	50.65	8.40	17	0.18	0.13
Kinkela 2008 AVLT DR	10.93	3.01	15	9.47	4.11	17	0.39	0.13
Kinkela 2008 CFT DR	22.20	4.64	15	22.38	5.16	17	-0.04	0.13
Kinkela 2008 Digit Span	11.60	1.88	15	12.00	2.76	17	-0.16	0.13
Kinkela 2008 Arithmetic	10.93	1.62	15	10.65	3.10	17	0.11	0.13
Kinkela 2008 LNS	12.20	3.03	15	11.29	2.20	17	0.34	0.13
Kinkela 2008 Matrix Reasoning	12.40	2.67	15	12.24	2.61	17	0.06	0.13
Kinkela 2008 Block Design	11.27	2.25	15	11.76	3.86	17	-0.15	0.13

(continued)

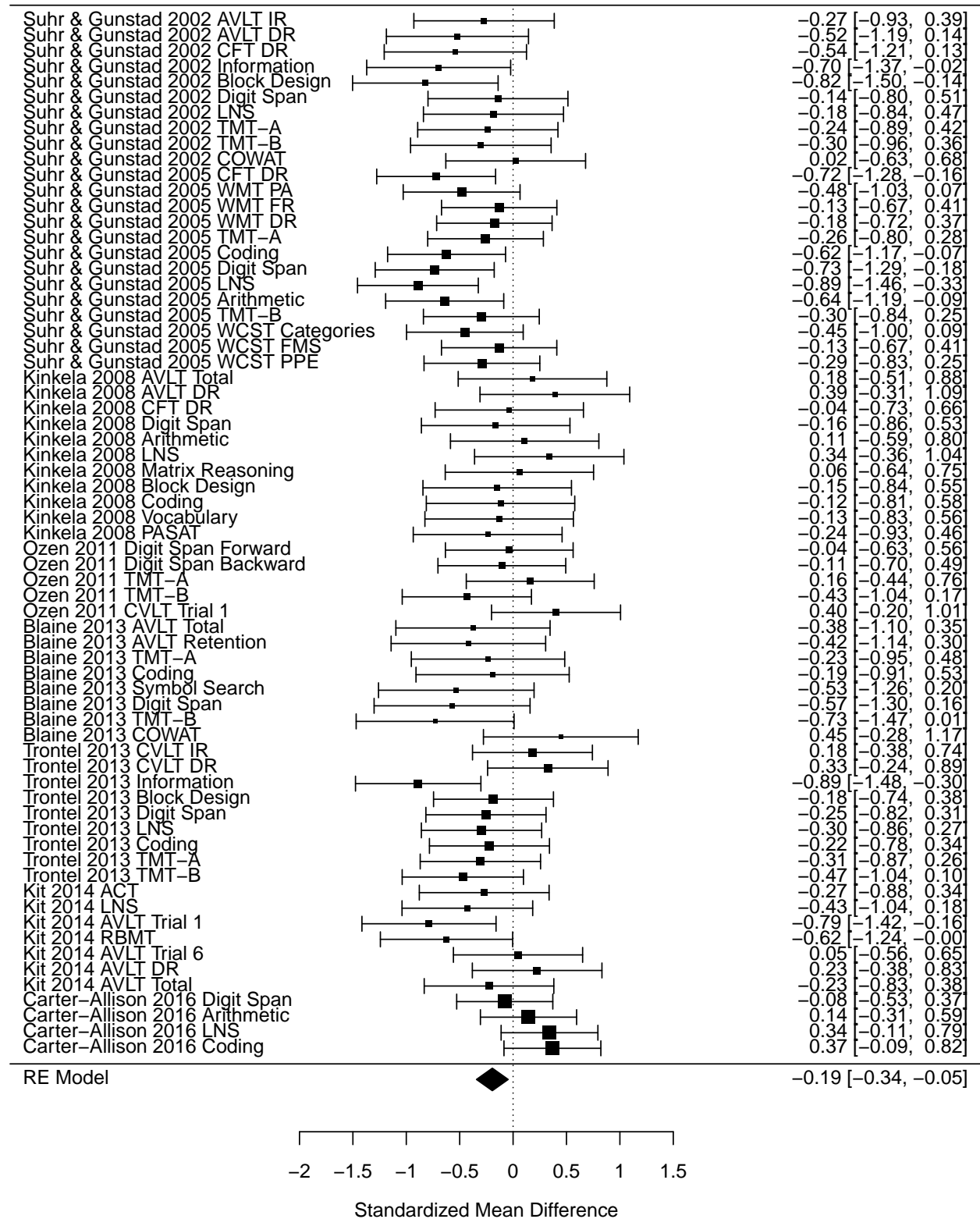
	DT_M	DT_S	DT_N	C_M	C_S	C_N	yi	vi
Kinkela 2008 Coding	10.47	1.92	15	10.71	2.05	17	-0.12	0.13
Kinkela 2008 Vocabulary	12.07	2.19	15	12.35	2.00	17	-0.13	0.13
Kinkela 2008 PASAT	39.53	5.41	15	41.94	12.53	17	-0.24	0.13
Ozen 2011 Digit Span Forward	8.41	2.22	22	8.48	1.54	21	-0.04	0.09
Ozen 2011 Digit Span Backward	7.10	2.11	22	7.33	2.18	21	-0.11	0.09
Ozen 2011 TMT-A	18.12	4.20	22	18.84	4.60	21	0.16	0.09
Ozen 2011 TMT-B	41.94	16.57	22	35.96	9.39	21	-0.43	0.10
Ozen 2011 CVLT Trial 1	8.09	2.35	22	7.29	1.42	21	0.40	0.09
Blaine 2013 AVLT Total	50.13	9.26	15	54.13	11.35	15	-0.38	0.14
Blaine 2013 AVLT Retention	20.27	5.66	15	22.80	6.09	15	-0.42	0.14
Blaine 2013 TMT-A	18.04	5.28	15	16.15	9.74	15	-0.23	0.13
Blaine 2013 Coding	20.07	14.43	15	22.70	12.14	15	-0.19	0.13
Blaine 2013 Symbol Search	39.47	11.27	15	45.53	10.90	15	-0.53	0.14
Blaine 2013 Digit Span	18.60	4.08	15	21.07	4.33	15	-0.57	0.14
Blaine 2013 TMT-B	39.81	18.15	15	29.43	7.29	15	-0.73	0.14
Blaine 2013 COWAT	43.80	7.12	15	39.47	11.27	15	0.45	0.14
Trontel 2013 CVLT IR	57.84	9.50	25	56.17	8.58	24	0.18	0.08
Trontel 2013 CVLT DR	12.72	2.34	25	11.92	2.50	24	0.33	0.08
Trontel 2013 Information	15.52	5.30	25	19.37	2.80	24	-0.89	0.09
Trontel 2013 Block Design	48.24	10.15	25	50.13	10.13	24	-0.18	0.08
Trontel 2013 Digit Span	17.08	4.06	25	18.13	4.07	24	-0.25	0.08
Trontel 2013 LNS	11.44	2.80	25	12.17	1.97	24	-0.30	0.08
Trontel 2013 Coding	78.76	9.23	25	81.12	11.66	24	-0.22	0.08
Trontel 2013 TMT-A	27.41	10.57	25	24.10	10.70	24	-0.31	0.08
Trontel 2013 TMT-B	58.71	16.72	25	50.36	18.18	24	-0.47	0.08
Kit 2014 ACT	25.05	7.95	21	27.00	6.07	21	-0.27	0.10
Kit 2014 LNS	10.50	2.31	21	11.48	2.18	21	-0.43	0.10
Kit 2014 AVLT Trial 1	6.48	0.94	21	7.76	2.05	21	-0.79	0.10
Kit 2014 RBMT	6.69	2.45	21	8.62	3.53	21	-0.62	0.10
Kit 2014 AVLT Trial 6	10.62	3.15	21	10.48	2.79	21	0.05	0.10
Kit 2014 AVLT DR	11.05	3.34	21	10.33	2.92	21	0.23	0.10
Kit 2014 AVLT Total	50.90	10.00	21	53.05	8.67	21	-0.23	0.10
Carter-Allison 2016 Digit Span	11.59	3.18	39	11.81	2.30	37	-0.08	0.05
Carter-Allison 2016 Arithmetic	12.26	2.79	39	11.84	2.97	37	0.14	0.05
Carter-Allison 2016 LNS	12.77	3.91	39	11.51	3.37	37	0.34	0.05
Carter-Allison 2016 Coding	11.92	3.01	39	10.86	2.67	37	0.37	0.05

Meta-Analysis via Multivariate/Multilevel Linear (Mixed-Effects) Models using metafor

```
dtMeta <- rma.mv(yi = yi, V = vi, random = ~1 | LabNumber/StudyNumber/TestNumber/VariableNumber,  
  method = "REML", slab = paste(Study, DV), level = 95, data = dtDatES)  
summary(dtMeta)
```

```
##  
## Multivariate Meta-Analysis Model (k = 67; method: REML)  
##  
##   logLik  Deviance      AIC      BIC      AICc  
## -17.0602  34.1204  44.1204  55.0687  45.1204  
##  
## Variance Components:  
##  
##           estim  sqrt  nlvls  fixed  
## sigma^2.1  0.0000  0.0000     6    no  
## sigma^2.2  0.0262  0.1618     8    no  
## sigma^2.3  0.0196  0.1400    29    no  
## sigma^2.4  0.0000  0.0000    66    no  
##  
##                                     factor  
## sigma^2.1                                     LabNumber  
## sigma^2.2                                     LabNumber/StudyNumber  
## sigma^2.3                                     LabNumber/StudyNumber/TestNumber  
## sigma^2.4  LabNumber/StudyNumber/TestNumber/VariableNumber  
##  
## Test for Heterogeneity:  
## Q(df = 66) = 82.4597, p-val = 0.0830  
##  
## Model Results:  
##  
## estimate      se      zval      pval      ci.lb      ci.ub  
## -0.1944  0.0757 -2.5683  0.0102 -0.3428 -0.0460 *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Forest Plot



Funnel Plot

