## **Supplemental Material D**

## **Publication bias**

**TV-off:** A funnel plot showed a roughly symmetrical distribution of effect sizes by standard error, and Egger's regression test for funnel plot asymmetry was not significant (p = 0.137). The trim and fill method did not impute missing studies; see Figure S2a.

**Parental modeling:** The funnel plot was slightly skewed to the right. Egger's regression test was not significant (p = 0.253). The trim and fill method added three studies, leading to an adjusted effect size of r = 0.10, 95% CI [0.06–0.13]; see Figure S2c.

**Food quality:** The funnel plot was slightly skewed to the right. Egger's regression test for funnel plot asymmetry was significant (p = 0.03). Trim and fill analysis method did not indicate any missing studies (see Figure S2b); therefore, we do not consider the threat of publication bias to be grave (see Rothstein, Sutton, & Borenstein, 2005).

Atmosphere: Egger's regression test was not significant (p = 0.143). The trim and fill method imputed three additional studies, resulting in an adjusted effect size of r = 0.10, 95% CI: [0.04–0.17]; see Figure S2d.

**Involvement:** The funnel plot was roughly symmetrical; Egger's regression test was not significant (p = .726) and the trim and fill method imputed one missing study, resulting in an adjusted effect size of r=0.08, 95% CI: [0.04-0.12]; see Figure S2e.

**Duration:** The funnel plot was skewed to the right. Egger's regression test for funnel plot asymmetry was significant (p = 0.008). Trim and fill analysis imputed three studies, resulting in an adjusted estimate of r = .12, 95% CI [0.02–0.23]; see Figure S2f. Although lower, the adjusted effect size was still significant; therefore the impact of meal duration can be considered modest (Rothstein et al., 2005).





*Note.* The vertical lines reflect the pooled mean effect size after trim and fill correction. The diagonal lines are corresponding 95% confidence intervals. Solid circles are the original effect sizes; open circles, the imputed filled effect sizes.

## References

Rothstein, H. R., Sutton, A. J., & Borenstein, M. (2005). Publication bias in meta-analysis:

Prevention, assessment and adjustment. West Sussex, United Kingdom: John Wiley &

Sons.

## Author, Date **Building Block** r [95% CI] Adolescents Ayala et al., 2007 0.28 [ 0.16, 0.38] Food quality Berge et al., 2013 0.26 [-0.16, 0.60] Atmosphere Fulkerson et al., 2011 Leech et al., 2014 0.21 [ 0.14, 0.27] 0.17 [ 0.04, 0.29] Food quality -Involvement TV off Food quality Roos et al., 2014 0.15 [ 0.10, 0.20] Chan & Sobal, 2011 Berge et al., 2017 0.14 [-0.03, 0.30] 0.12 [ 0.09, 0.16] Involvement HEH Chu et al., 2013 Involvement 0.12 [ 0.09, 0.15] Stephens et al., 2011 Stephens et al., 2011 Atmosphere Parental modeling 0.11 [ 0.03, 0.19] 0.11 [ 0.05, 0.18] 0.11 [ 0.03, 0.13] 0.10 [-0.04, 0.24] 0.10 [ 0.04, 0.16] de Wit, 2015 Atmosphere Arcan et al., 2013 Masse et al., 2012 Food quality Food quality Serrano et al., 2014 Pearson, 2017 0.10 [-0.07, 0.27] 0.07 [ 0.00, 0.14] TV off TV off TV off 0.07 [-0.01, 0.15] 0.04 [ 0.02, 0.07] 0.03 [-0.01, 0.06] Stephens et al., 2011 Berge et al., 2014; Larson et al., 2015 Parental modeling Larson et al., 2013 Food quality Babajafari et al., 2011 Food quality 0.03 [ 0.00, 0.05] 0.02 [-0.18, 0.21] 0.01 [-0.02, 0.03] Santiago-Torres et al., 2014 TV off Larson et al., 2006 H Involvement Larson et al., 2013 TV off 0.01 [-0.03, 0.04] H Weighted mean effect size for adolescents 0.09 [0.06, 0.12] Children Berge et al., 2014 0.34 [ 0.13, 0.53] Atmosphere Jacobs & Fiese, 2007 0.34 [ 0.08, 0.56] Duration Coon et al., 2001 Berkowitz et al., 2010 TV off 0.33 [ 0.17, 0.47] 0.29 [ 0.04, 0.51] Duration Trofholz et al, 2017 Food quality 0.29 [ 0.11, 0.44] Berge et al., 2014 Duration Atmosphere 0.26 [ 0.04, 0.46] Fiese et al., 2012 0.22 [ 0.04, 0.38] Fiese et al., 2012 Harris & Ramsey, 2015 0.19 [ 0.02, 0.35] 0.19 [ 0.05, 0.32] Duration Parental modeling Horodynski et al., 2010 TV off 0.19 [ 0.09, 0.28] Skafida, 2013 Skafida, 2013 Atmosphere Parental modeling 0.18 [ 0.14, 0.22] 0.18 [ 0.14, 0.22] Wenhold & Harrison, 2018 Jacobs & Fiese, 2007 Frankel et al., 2018 0.18 [ 0.07, 0.28] 0.17 [-0.11, 0.43] 0.17 [ 0.07, 0.26] TV off Atmosphere Parental modeling Goldman et al., 2012 Berge et al., 2014 0.16 [ 0.06, 0.26] 0.14 [-0.08, 0.36] Parental modeling TV off Sweetman et al., 2011 Parental modeling 0.14 [ 0.04, 0.23] Draxten et al., 2014 Appelhans et al., 2014 0.14 [-0.02, 0.29] 0.14 [ 0.01, 0.26] Parental modeling Food quality 0.13 [-0.15, 0.39] 0.13 [ 0.05, 0.20] 0.12 [ 0.06, 0.17] Ferran-Alexander, 2012 Food quality Parental modeling Vereecken et al., 2004 Ayala et al., 2008 Food quality Skafida, 2013 0.11 [ 0.07, 0.15] Duration Murashima et al., 2011 de Jong et al., 2015 Parental modeling 0.11 [ 0.04, 0.18] 0.10 [ 0.07, 0.14] Involvement Petty et al., 2013 Chan, 2018 0.10 [ 0.02, 0.18] 0.10 [ 0.02, 0.18] TV off TV off 0.09 [-0.02, 0.19] 0.08 [-0.04, 0.19] 0.08 [0.02, 0.13] MacFarlane et al., 2009 Food quality Spurrier et al., 2008 Fitzpatrick et al., 2007 Involvement TV off -0.06 [-0.16, 0.27] 0.05 [-0.07, 0.17] Bergmeier et al., 2016 Atmosphere Goldman et al., 2012 TV off TV off Hauser et al., 2014 0.02 [-0.04, 0.09] Melbye et al., 2013 Involvement 0.02 [-0.06, 0.10] 0.00 [-0.03, 0.04] Tremblay et al., 2010 Atmosphere van Zutphen et al., 2006 Melbye et al., 2013 0.00 [-0.06, 0.06] 0.00 [-0.08, 0.08] TV off Parental modeling Weighted mean effect size for children 0.12 [0.09, 0.15] -0.30 0.3 0.6 Less nutritionally healthy More nutritionally healthy

*Figure S2*. Forest plot showing the distribution of effect sizes across all mealtime building blocks, separately for adolescents and children.