# S17 Table: Maternal BMI and continuous child BMI and BMI z-score outcomes (mean differences) sensitivity analysisa

|  | **I2** % (95% CI) | **Linear analyses**SMD (95% CI) | **Nonlinear Analyses: Maternal BMI Midpoint (kg/m2)b**SMD (95% CI) |
| --- | --- | --- | --- |
|  | **Per 5 unit increase in maternal BMI** | **17.5** | **22.5** | **27.5** | **35.0** |
| Andres *et al.* 2015[1] | 99.9 (99.8, 99.9) | 0.39 (0.08,0.70) | -0.52 (-0.69,-0.35) | 0 | 0.47 (0.31,0.62) | 1.02 (0.61,1.44) |
| Berkowitz *et al.* 2005[2] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | N/A | N/A | N/A | N/A |
| Daraki *et al.* 2015[3] | 99.6 (99.3, 99.8) | 0.33 (0.15,0.51) | N/A | N/A | N/A | N/A |
| Deierlein *et al.* 2011[4] | 99.9 (99.8 99.95) | 0.48 (0.13,0.83) | -0.52 (-0.68,-0.36) | 0 | 0.47 (0.31,0.62) | 1.05 (0.64,1.46) |
| Eisenman *et al.* 2010[5] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | N/A | N/A | N/A | N/A |
| Fleten *et al.* 2012[6] | 99.9 (99.8, 99.9) | 0.49 (0.14,0.84) | N/A | N/A | N/A | N/A |
| Gademan *et al.* 2014[7] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | -0.48 (-0.63,-0.33) | 0 | 0.44 (0.29,0.59) | 1.02 (0.59,1.44) |
| Gaillard *et al.* 2014[8] | 99.9 (99.8, 99.9) | 0.48 (0.13,0.83) | N/A | N/A | N/A | N/A |
| Hinkle *et al.* 2012[9] | 99.9 (99.8, 99.9) | 0.49 (0.14,0.84) | -0.53 (-0.69,-0.37) | 0 | 0.47 (0.32,0.63) | 1.05 (0.65,1.45) |
| Jacota *et al.* 2016[10] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | -0.53 (-0.69,-0.36) | 0 | 0.47 (0.32,0.63) | 1.05 (0.66,1.45) |
| Kaar *et al.* 2014a [11] | 99.9 (99.8, 99.95) | 0.47 (0.13,0.82) |  |  |  |  |
| Kaar *et al.* 2014b [11] | 99.9 (99.8, 99.95) | 0.49 (0.15,0.83) | -0.52 (-0.67,-0.36) | 0 | 0.46 (0.32,0.61) | 1.03 (0.65,1.41) |
| Kaar *et al.* 2014c [11] | 99.9 (99.8, 99.95) | 0.49 (0.14,0.84) | -0.48 (-0.62,-0.34) | 0 | 0.42 (0.29,0.55) | 0.92 (0.58,1.27) |
| Kaar *et al.* 2014d [11] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | -0.51 (-0.67,-0.36) | 0 | 0.46 (0.31,0.61) | 1.02 (0.62,1.41) |
| Kaar *et al.* 2014e [11] | 99.9 (99.8, 99.95) | 0.49 (0.14,0.84) | -0.45 (-0.57,-0.33) | 0 | 0.39 (0.28,0.5) | 0.85 (0.56,1.14) |
| Kaar *et al.* 2014f [11] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | -0.48 (-0.63,-0.34) | 0 | 0.43 (0.29,0.57) | 0.95 (0.58,1.31) |
| Kaar *et al.* 2014g [11] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | -0.47 (-0.6,-0.34) | 0 | 0.42 (0.29,0.54) | 0.91 (0.58,1.25) |
| Kaar *et al.* 2014h [11] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | -0.5 (-0.65,-0.35) | 0 | 0.44 (0.31,0.58) | 0.98 (0.62,1.35) |
| Leng *et al.* 2015[12] | 99.9 (99.8, 99.95) | 0.49 (0.14,0.84) | -0.53 (-0.69,-0.36) | 0 | 0.47 (0.31,0.63) | 1.04 (0.63,1.45) |
| Li *et al.* 2013[13] | 99.8 (99.7, 99.9) | 0.49 (0.14,0.84) | -0.53 (-0.69,-0.38) | 0 | 0.47 (0.33,0.62) | 1.05 (0.66,1.44) |
| Makela *et al.* 2013[14] | 99.9 (99.8, 99.95) | 0.47 (0.12,0.83) | N/A | N/A | N/A | N/A |
| Margerison Zilko *et al.* 2012[15] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | -0.52 (-0.68,-0.35) | 0 | 0.46 (0.31,0.62) | 1.04 (0.63,1.46) |
| Mesman *et al.* 2009[16] | 99.9 (99.8, 99.9) | 0.49 (0.14,0.84) | -0.52 (-0.68,-0.35) | 0 | 0.47 (0.32,0.62) | 1.07 (0.68,1.46) |
| Toemen *et al.* 2016[17] | 99.9 (99.8, 99.9) | 0.48 (0.13,0.83) | -0.5 (-0.67,-0.34) | 0 | 0.42 (0.29,0.55) | 0.83 (0.54,1.11) |
| Zalbahar *et al.* 2015[18] | 99.9 (99.8, 99.95) | 0.48 (0.13,0.83) | N/A | N/A | N/A | N/A |

Abbreviations: SMD, standardised mean difference; CI, confidence interval; BMI, body mass index; N/A, not applicable as study was excluded from nonlinear analysis for reporting only 2 BMI categories.

Footnote:

aSensitivity analyses were performed by excluding one study at a time from the meta-analysis to identify the effect of any one individual study.

bThe summary OR represent BMI mid-points of categories of underweight (17.5kg/m2), recommended BMI (22.5kg/m2), overweight 27.5kg/m2) and obesity (35.0kg/m2).

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