

# **A gradient relationship between low birth weight and IQ:**

## **A meta-analysis**

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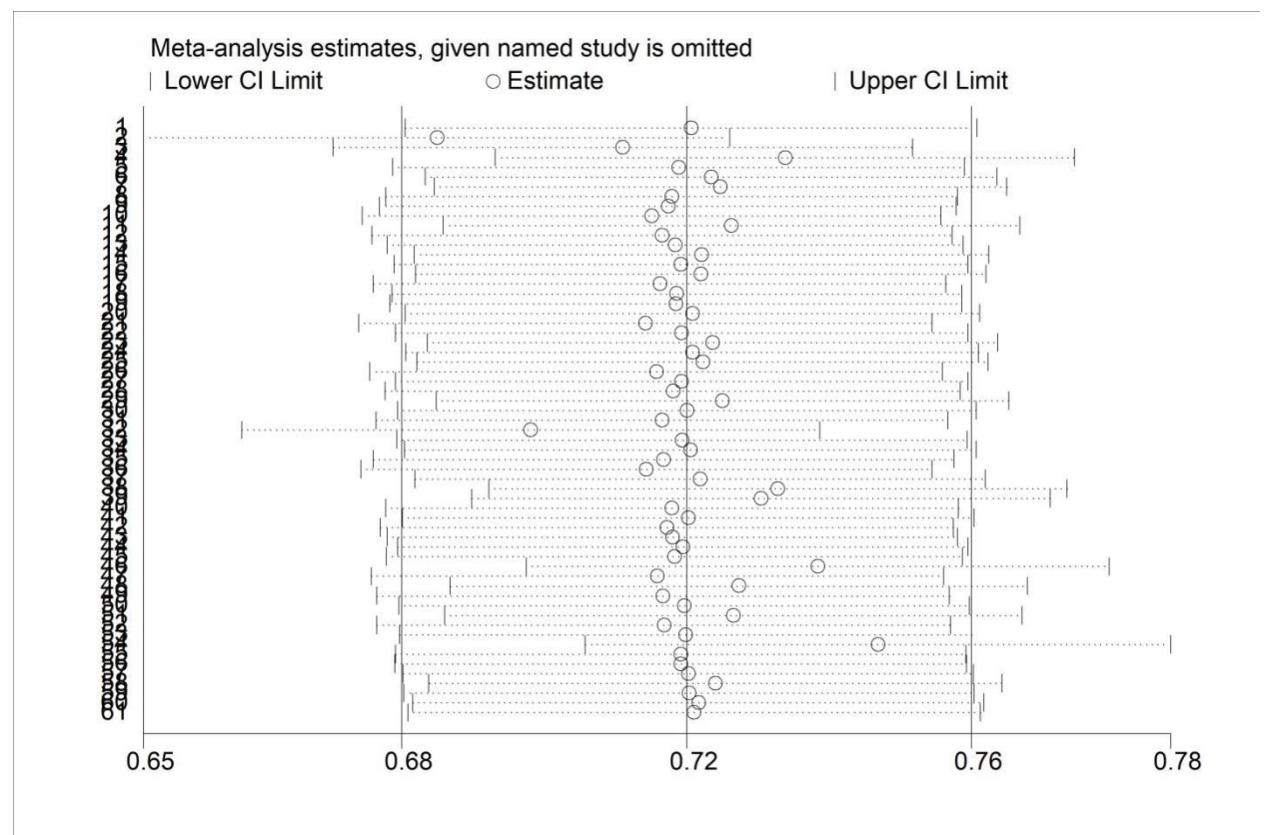
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**Table S1** Results of meta-regression

| Covariate          | coefficient | 95% CI         | t-value | P-value      |
|--------------------|-------------|----------------|---------|--------------|
| sample size of LBW | 0.004       | -0.019, 0.028  | 0.37    | 0.709        |
| sample size of NBW | -0.004      | -0.030, 0.021  | -0.36   | 0.723        |
| age at assessment  | 0.1098      | -0.003, 0.961  | 0.94    | 0.352        |
| birth weight       | -0.005      | -0.009, -0.002 | -3.09   | <b>0.003</b> |
| birth year         | 0.040       | -0.106, 0.186  | 0.55    | 0.586        |

**Figure S1** Sensitivity analysis for individual studies on the summary effect.

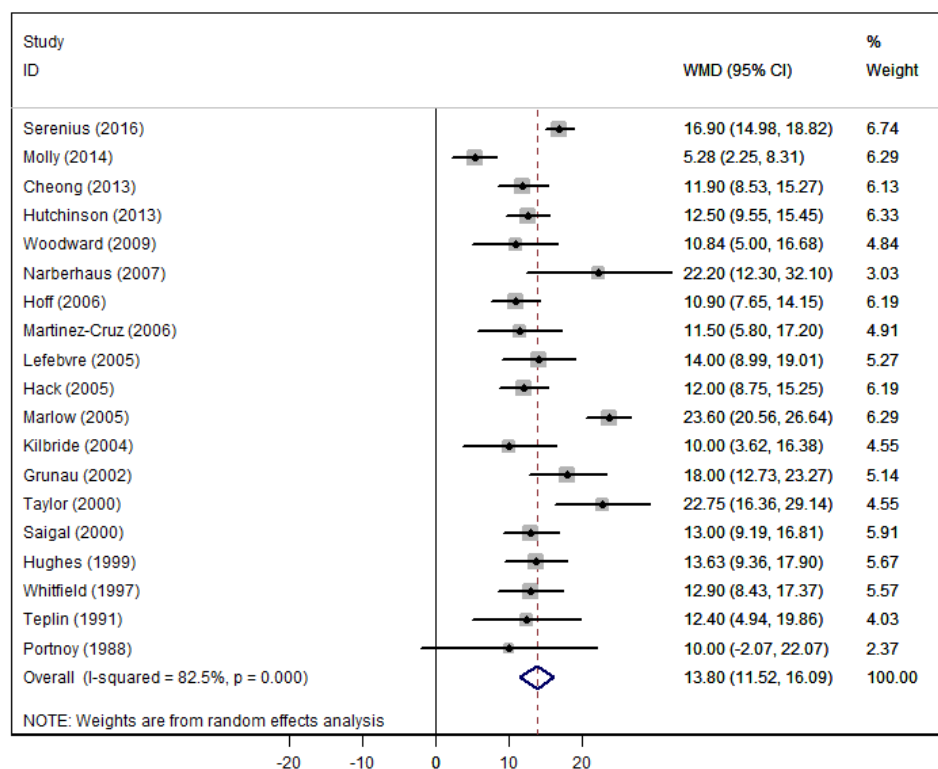
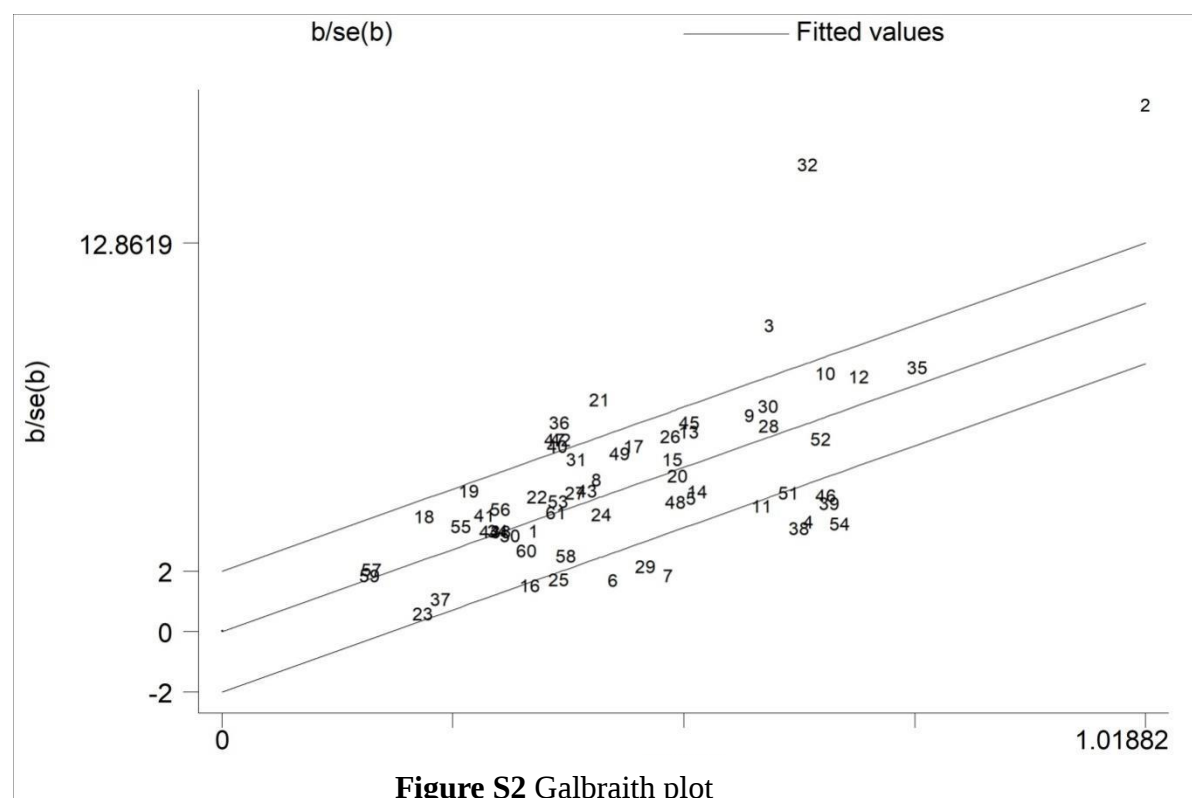
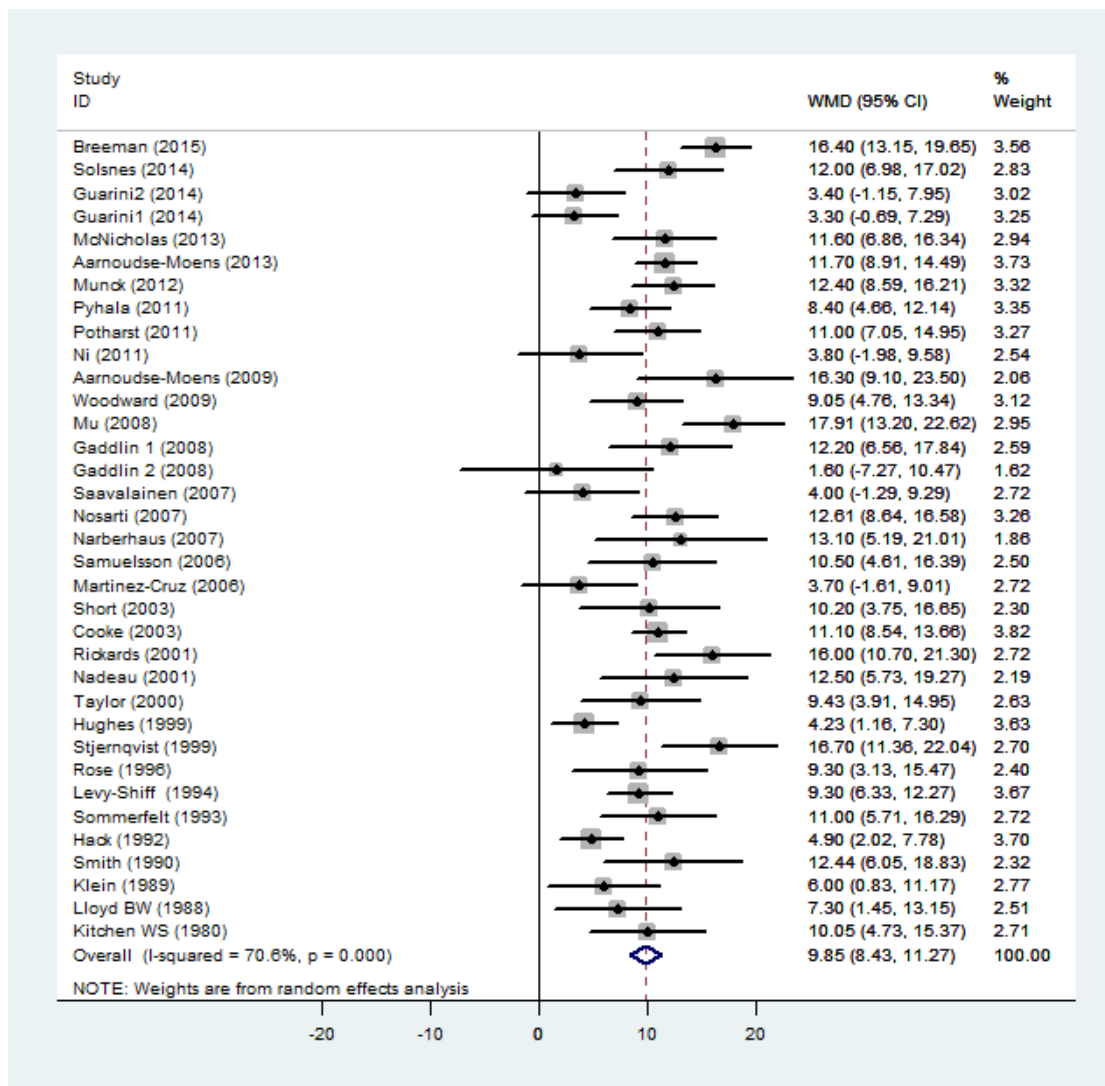
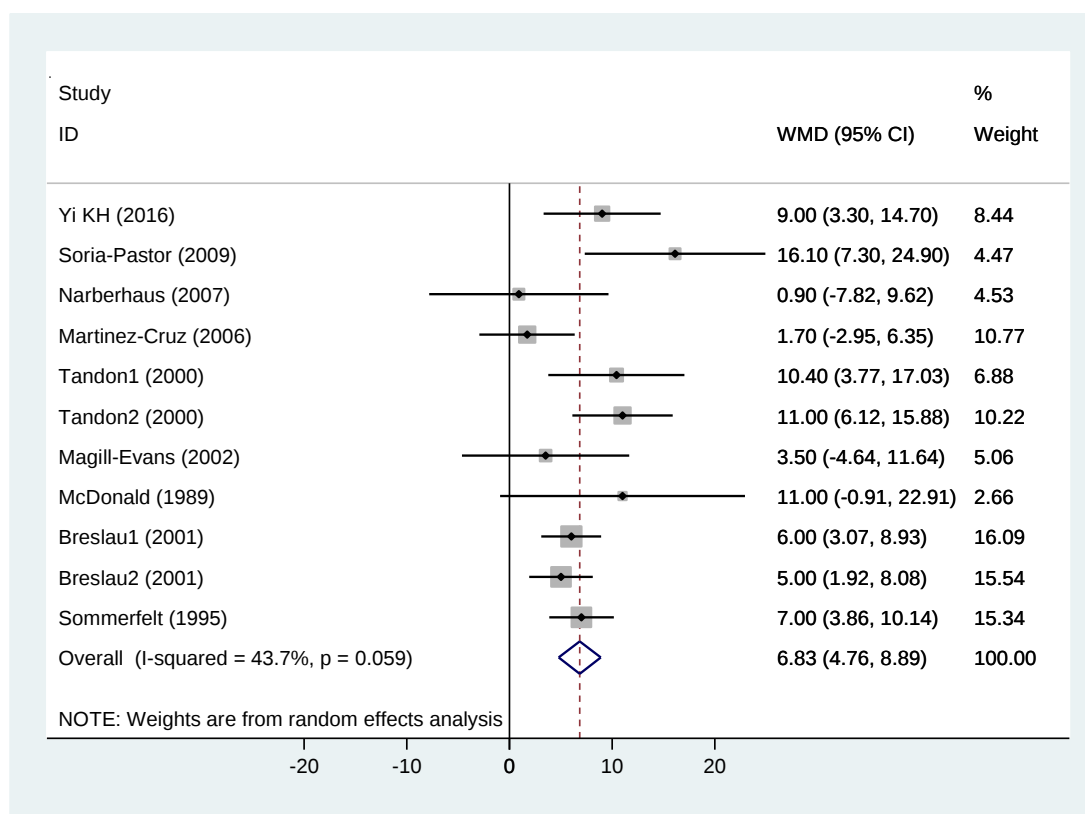


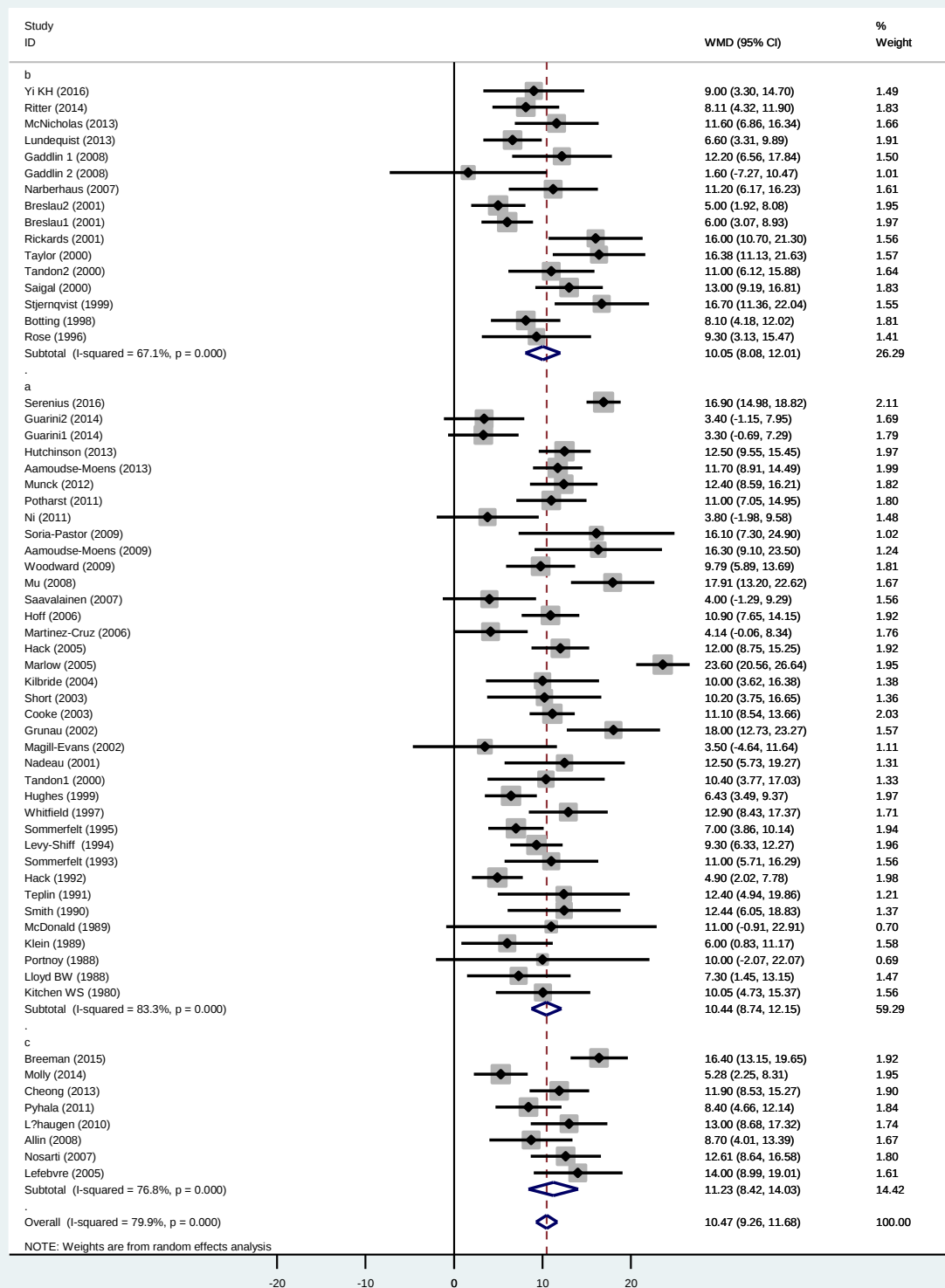
Figure S3 Forest plot of pooled WMD for ELBW (<1000g)



**Figure S4** Forest plot of pooled WMD for VLBW (1000---1499g)

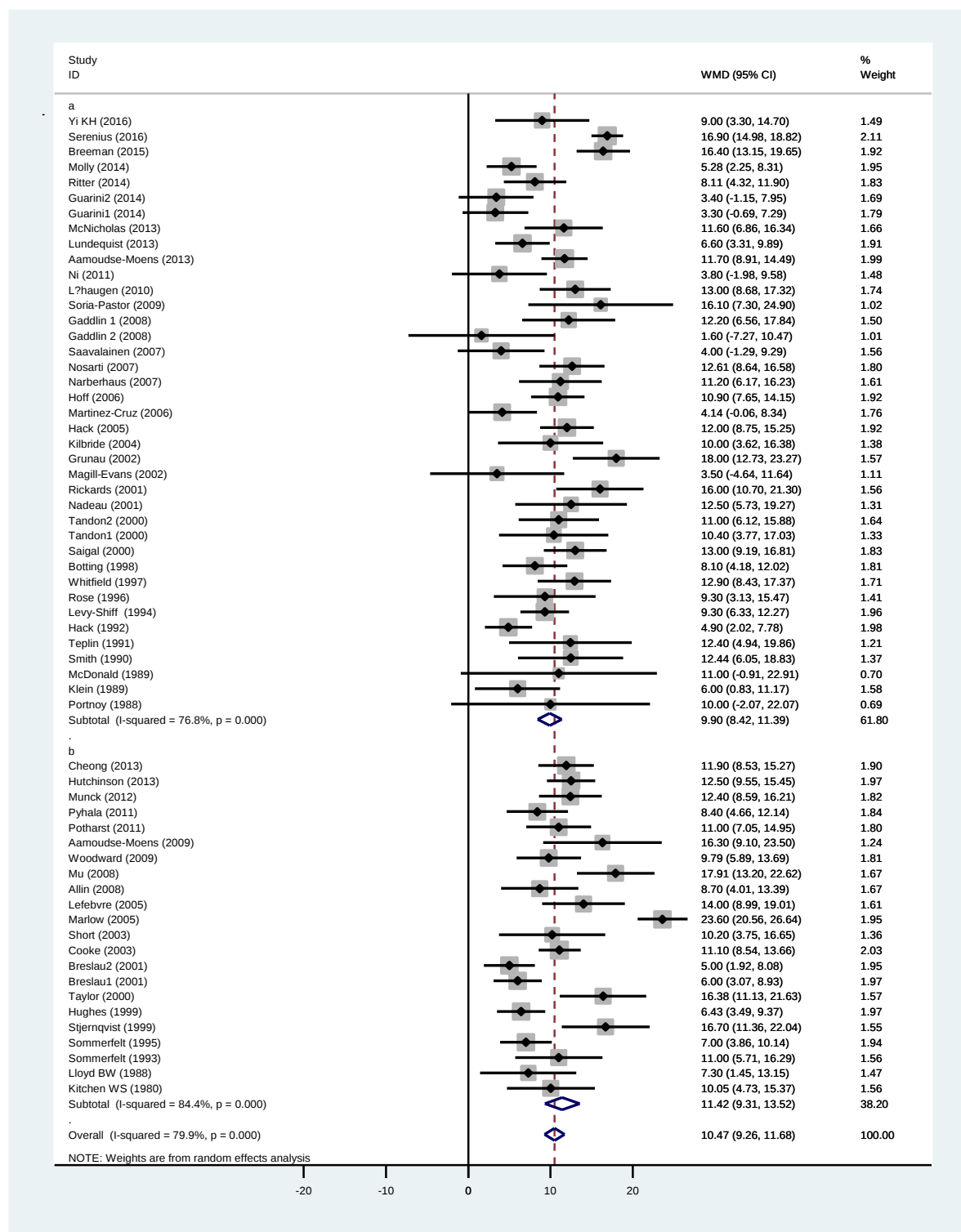


**Figure S5** Forest plot of pooled WMD for MLBW (1500---2499g)



**Figure S6** Forest plot of pooled WMD by age groups

a : < 10 years old; b: 10 to 18 years old; c: ≥ 18 years old



**Figure S7** Forest plot of pooled WMD for the social determinants of health (SDOH) matched group and SDOH non-matched group.

a : SDOH matched group;

b : SDOH non-matched group.

|                    | group 1 | group 2 | group (1+2)                                                                                                               |
|--------------------|---------|---------|---------------------------------------------------------------------------------------------------------------------------|
| Sample Size        | $N_1$   | $N_2$   | $N_1 + N_2$                                                                                                               |
| Mean               | $M_1$   | $M_2$   | $\frac{N_1 M_1 + N_2 M_2}{N_1 + N_2}$                                                                                     |
| Standard Deviation | $SD_1$  | $SD_2$  | $\sqrt{\frac{(N_1 - 1) SD_1^2 + (N_2 - 1) SD_2^2 + \frac{N_1 N_2}{N_1 + N_2} (M_1^2 + M_2^2 - 2M_1 M_2)}{N_1 + N_2 - 1}}$ |

**Figure S8** The calculation formulas