**Supplementary Materials**

**Figure S1:*****Forest plot revealing the effectiveness of informal PjBL, grouped by “teaching model”.*

**-2 -1 0 1 2**

**Figure S2:** *Forest plot revealing the effectiveness of informal PjBL, grouped by “assessment method”.*



**-2 -1 0 1 2**

**Figure S3:** *Forest plot revealing the effectiveness of informal PjBL, grouped by “educational level”.*



**-2 -1 0 1 2**

**Figure S4:** *Forest plot revealing the effectiveness of informal PjBL, grouped by “study location”.*



**-2 -1 0 1 2**

**Figure S5:** *Forest plot revealing the effectiveness of informal PjBL, grouped by “student group size”.*



**-2 -1 0 1 2**

**Figure S6:** *Forest plot revealing the effectiveness of informal PjBL, grouped by “subject area”*



**-2 -1 0 1 2**

**Figure S7:** *Forest plot revealing the effectiveness of informal PjBL, grouped by “instructional time”*



**-2 -1 0 1 2**