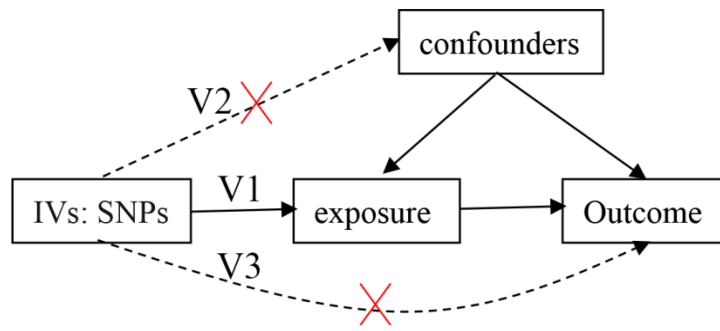
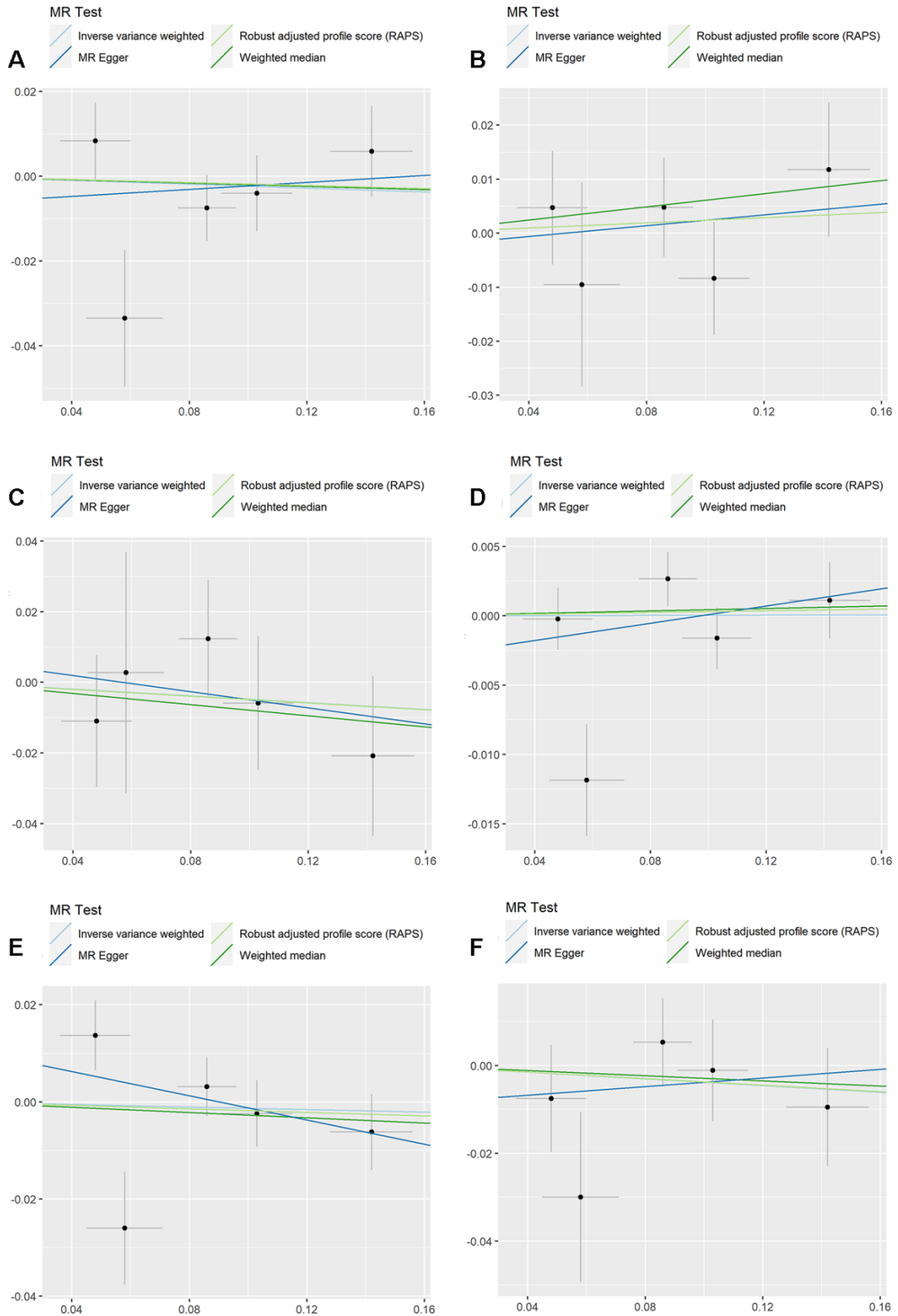


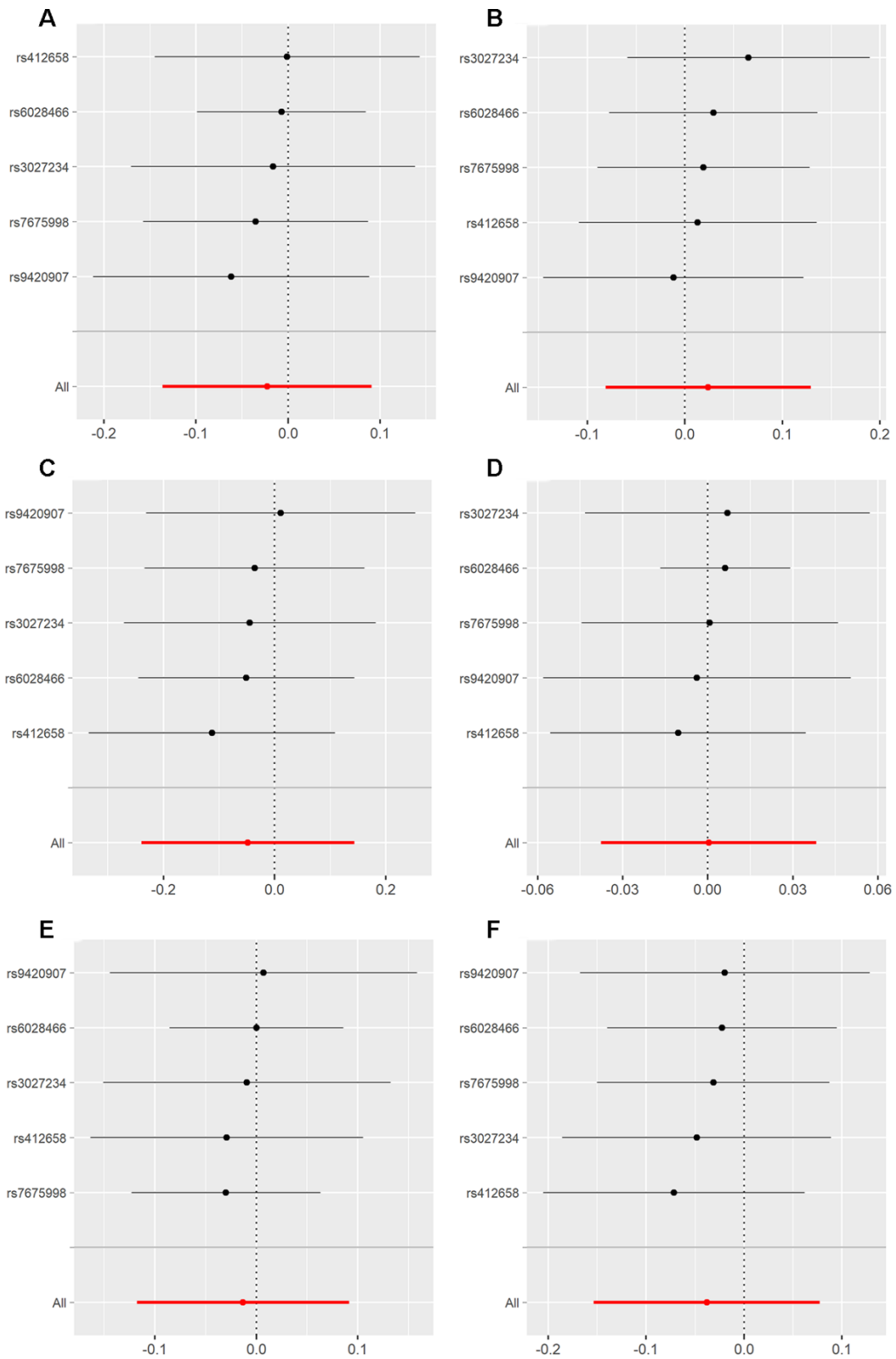
SUPPLEMENTARY FIGURES



Supplementary Figure 1. The assumptions of the two-sample MR analysis.



**Supplementary Figure 2.** Scatter plots for Mendelian randomization analyses of the association of leukocyte telomere length on BMDs (A) FN-BMD (B) LS-BMD (C) FA-BMD (D) heel estimated BMD (E) TB-BMD and (F) TB-BMD (age over 60). Analyses were conducted using the conventional IVW, WM, MR-Egger and MR.RAPS methods. The slope of each line corresponding to estimated MR effect per method.



**Supplementary Figure 3.** “Leave-one-out” analyses for Mendelian randomization analyses of the association of leukocyte telomere length on BMDs (A) FN-BMD (B) LS-BMD (C) FA-BMD (D) heel estimated BMD (E) TB-BMD and (F) TB-BMD (age over 60).