

## Supplementary Materials

### **The causal relationship between epigenetic aging and osteoporosis: a bi-directional Mendelian randomization study**

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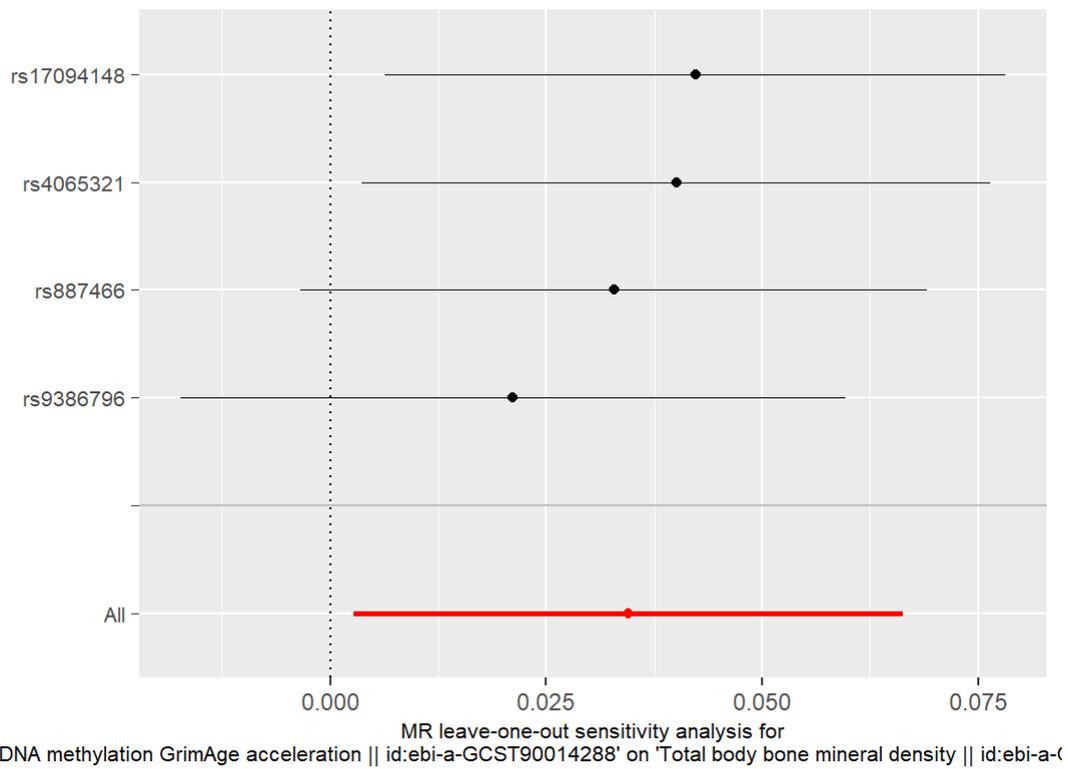
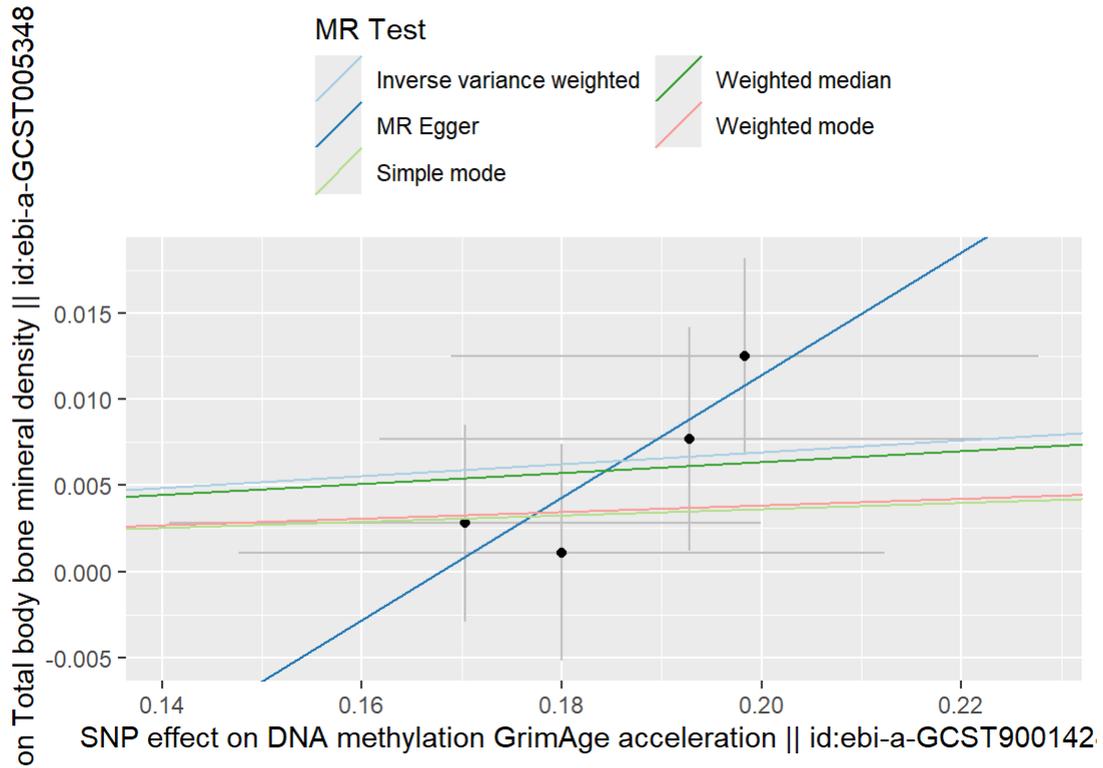
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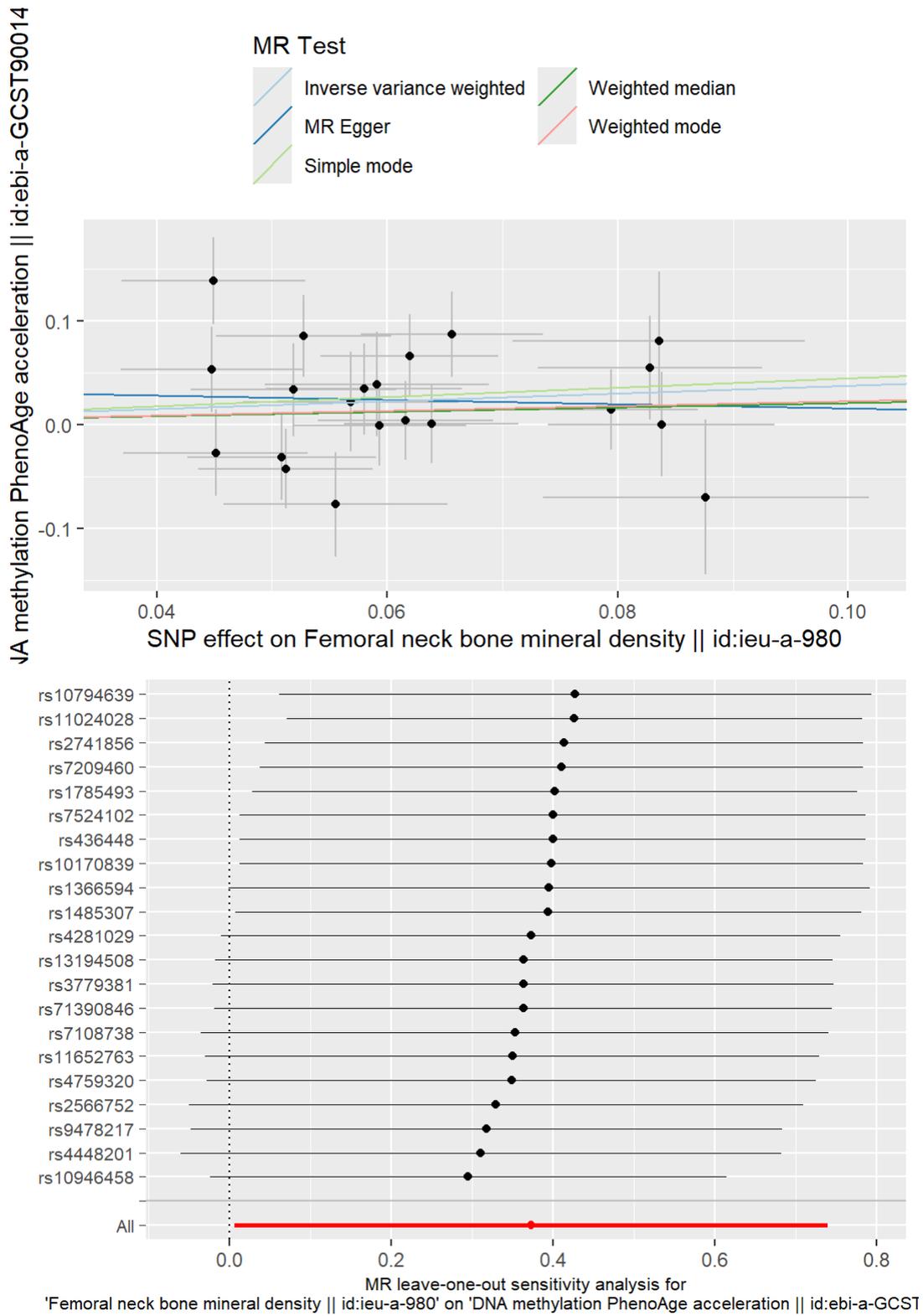
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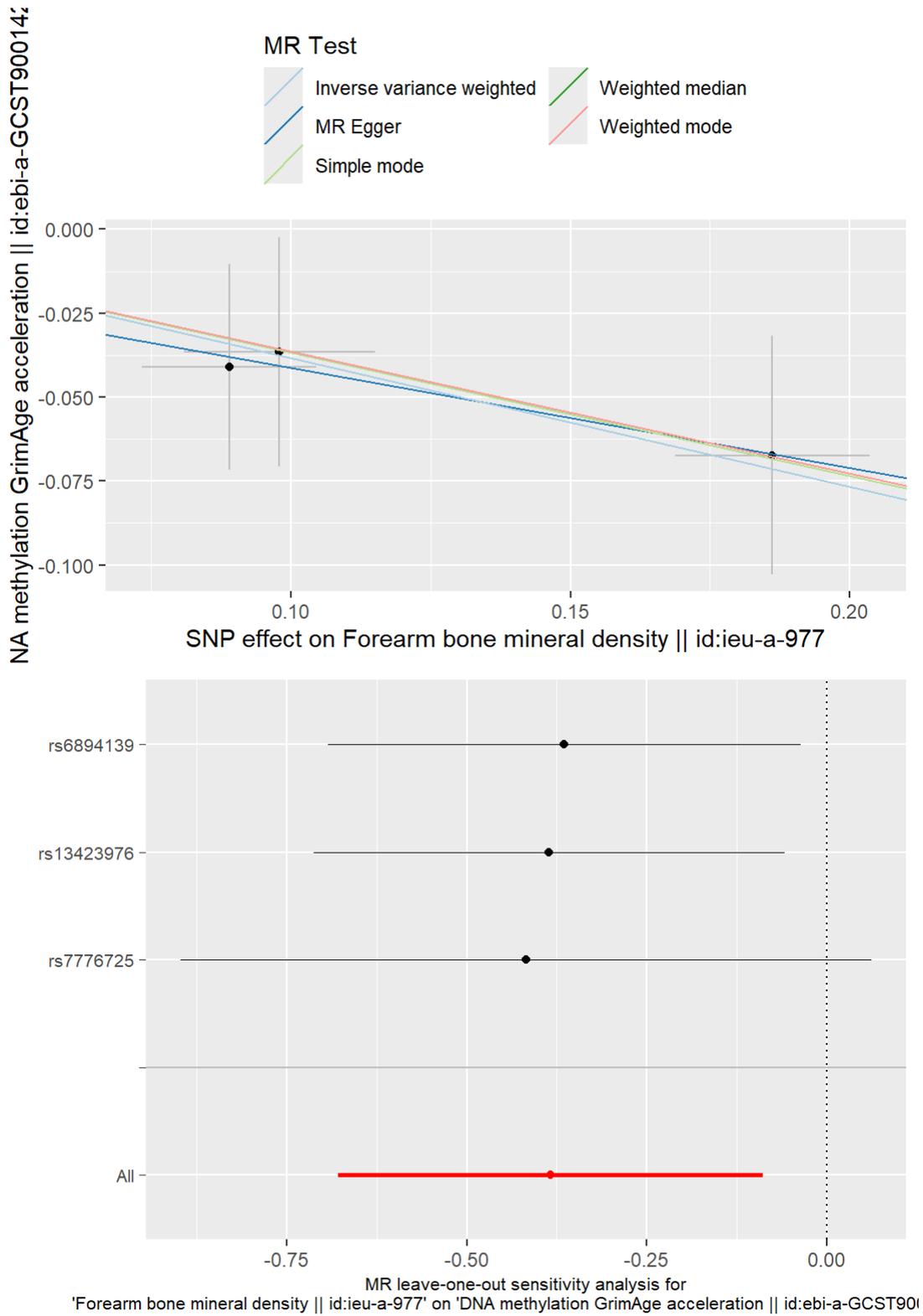
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**Supplementary Figure 1.** Scatterplots and leave-one-out test of the acceleration between Grim AA and TB BMD



**Supplementary Figure 2.** Scatterplots and leave-one-out test of the acceleration between FN BMD and Pheno AA



**Supplementary Figure 3.** Scatterplots and leave-one-out test of the acceleration between FA BMD and Grim AA