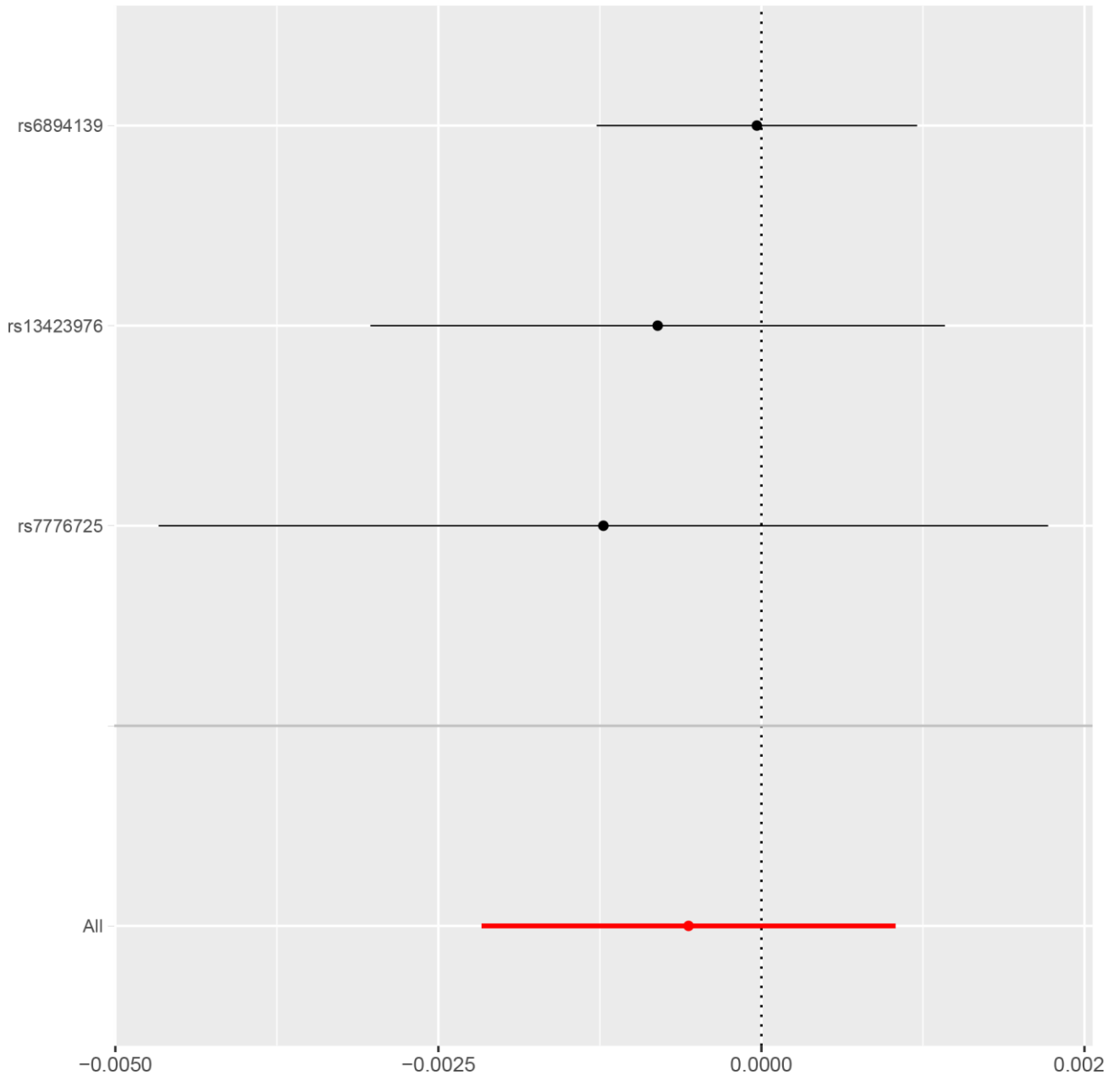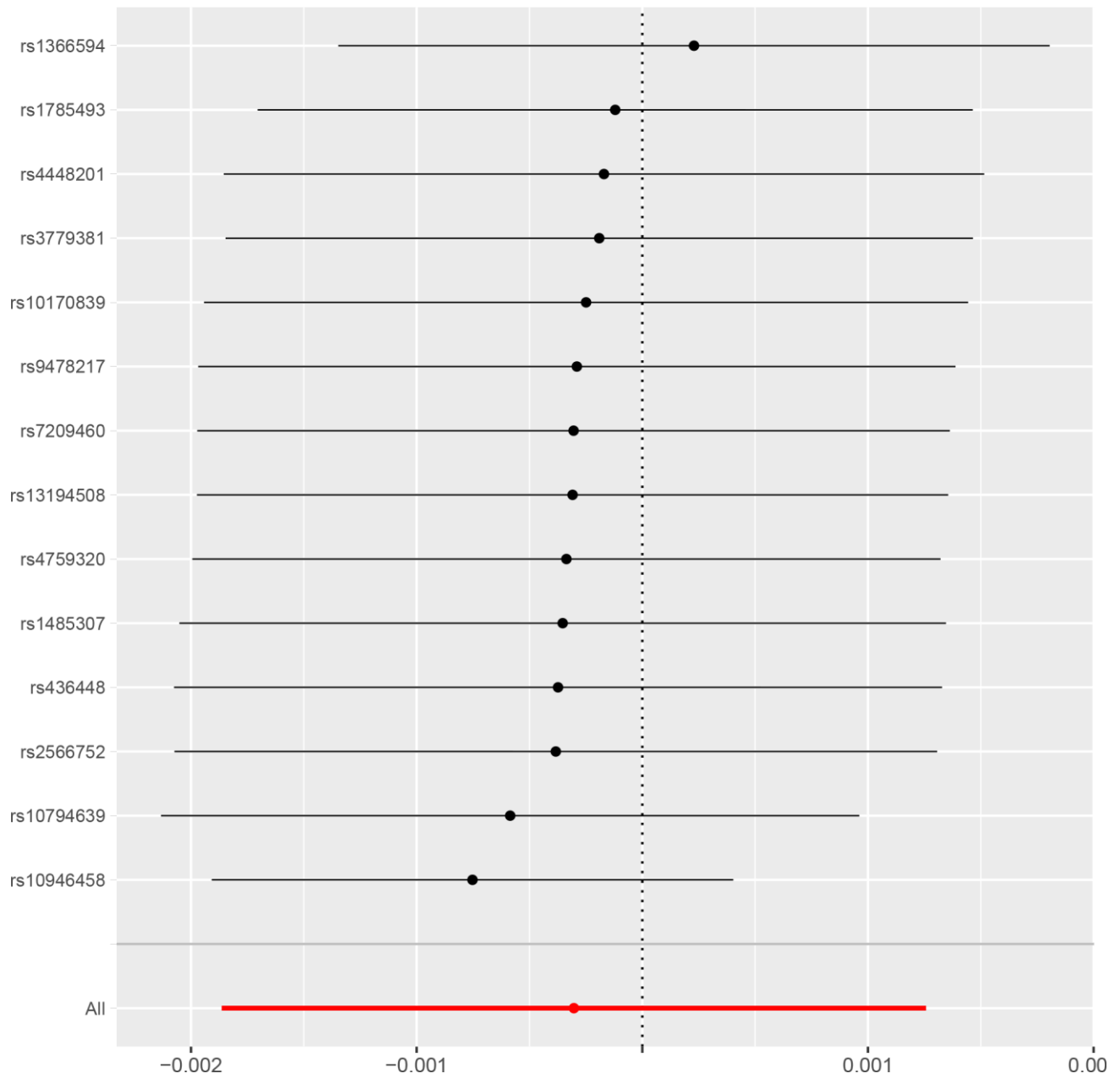Supplementary Figure 1. MR leave−one−out sensitivity analysis for 'Heel BMD' on 'RA'.

Supplementary Figure 2. MR leave−one−out sensitivity analysis for 'FA-BMD' on 'RA'.

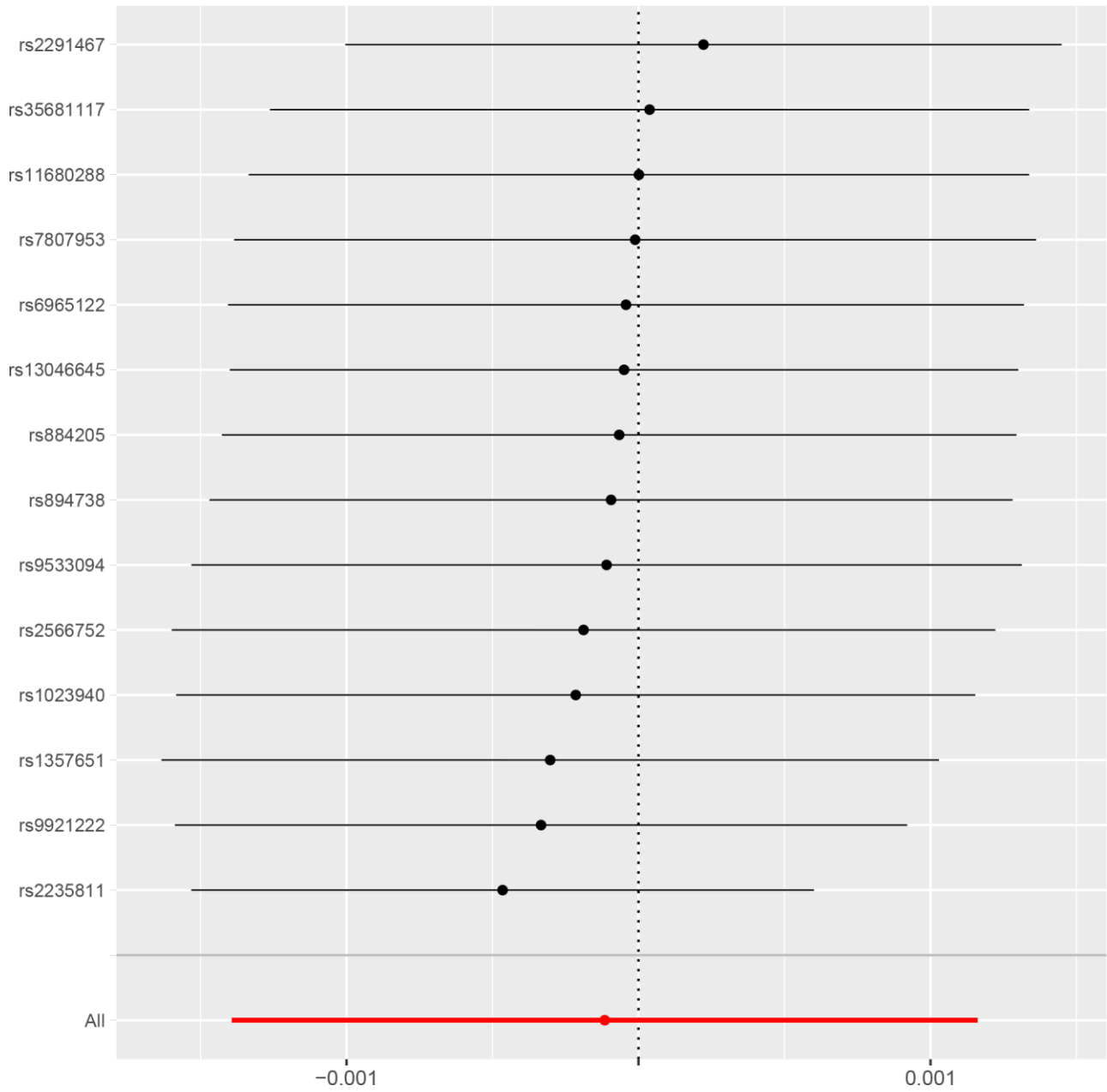**Supplementary Figure 3. MR leave−one−out sensitivity analysis for 'FN-BMD' on 'RA'.**
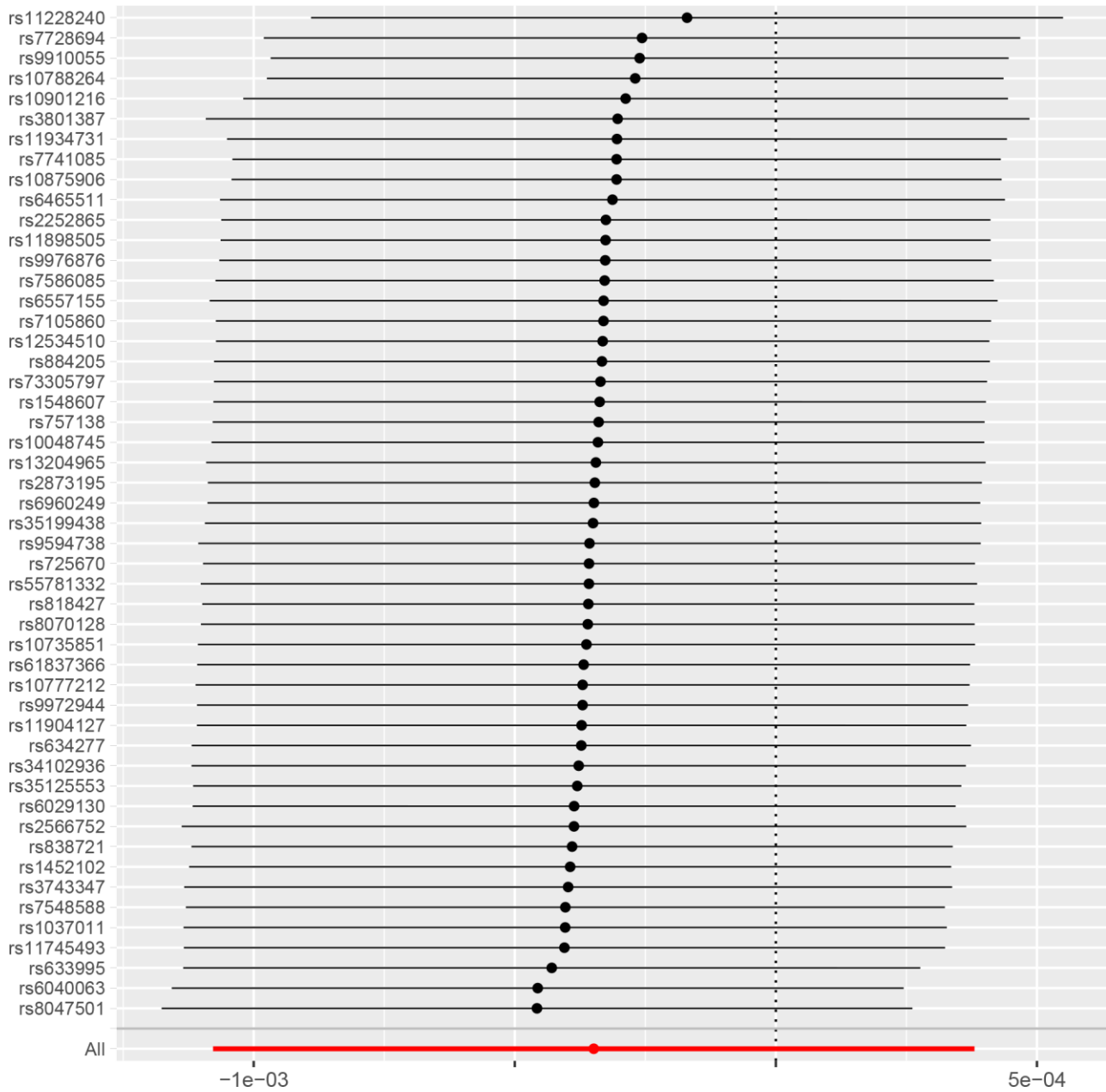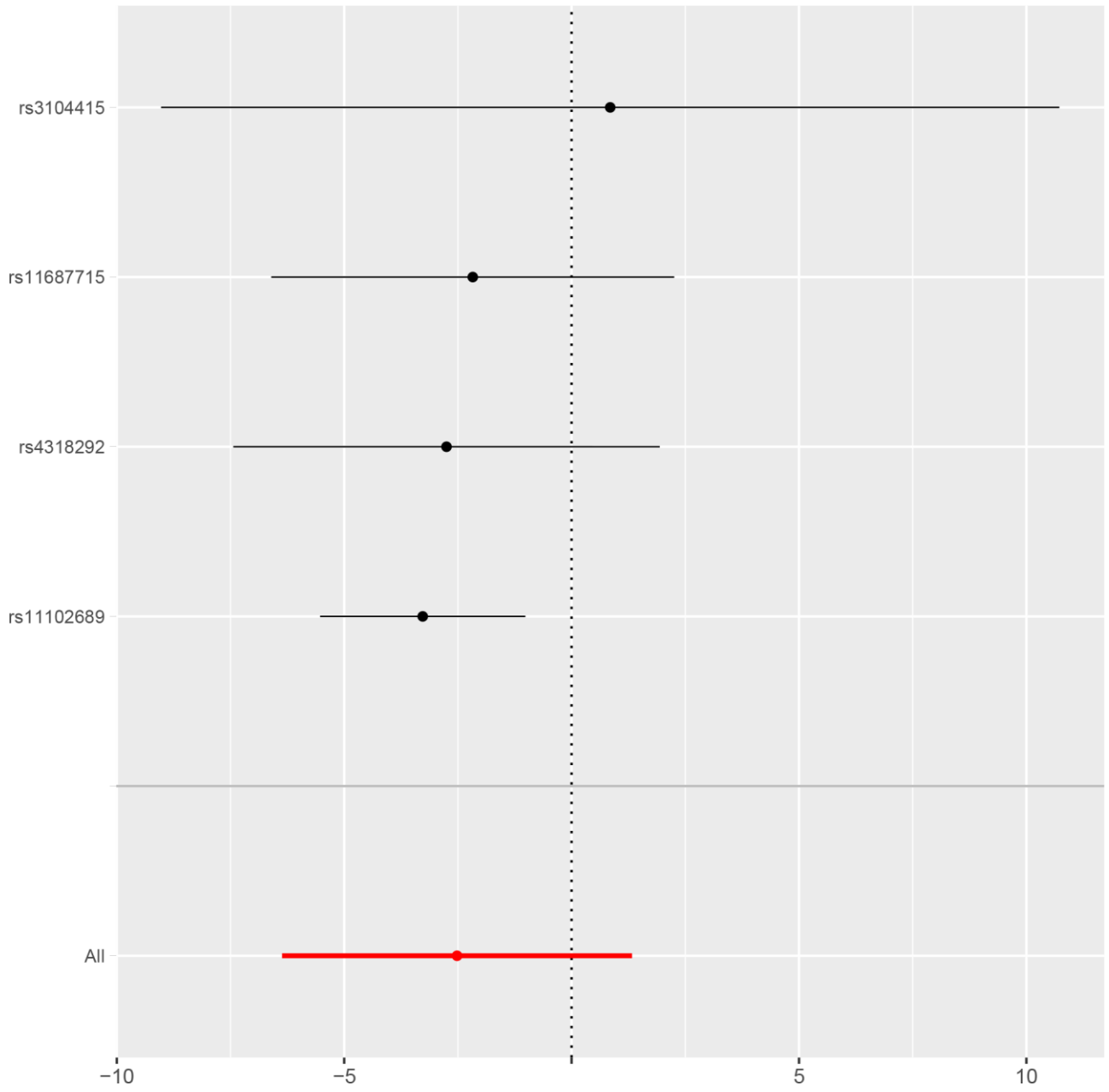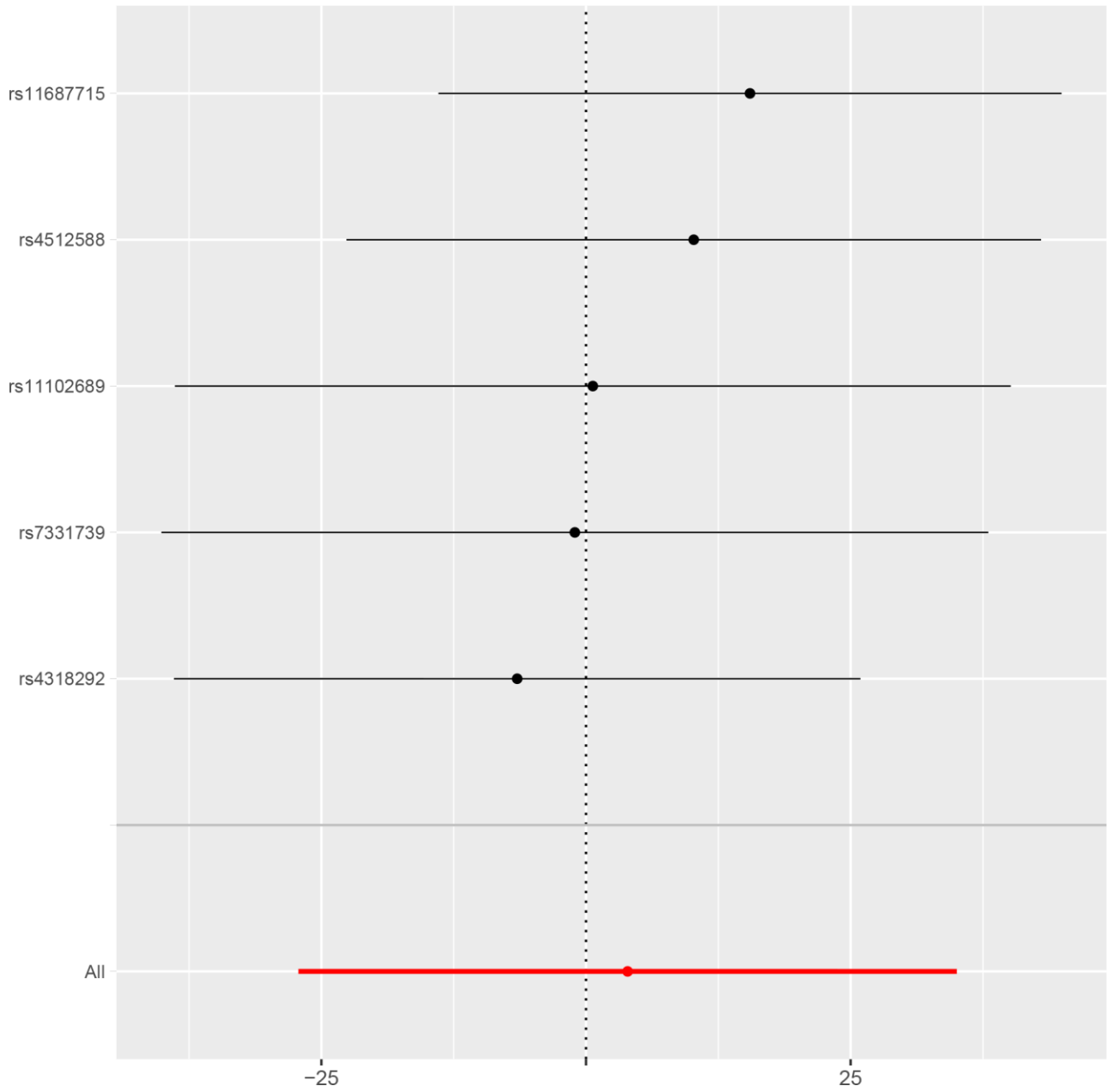
Supplementary Figure 4. MR leave−one−out sensitivity analysis for 'LS-BMD' on 'RA'.
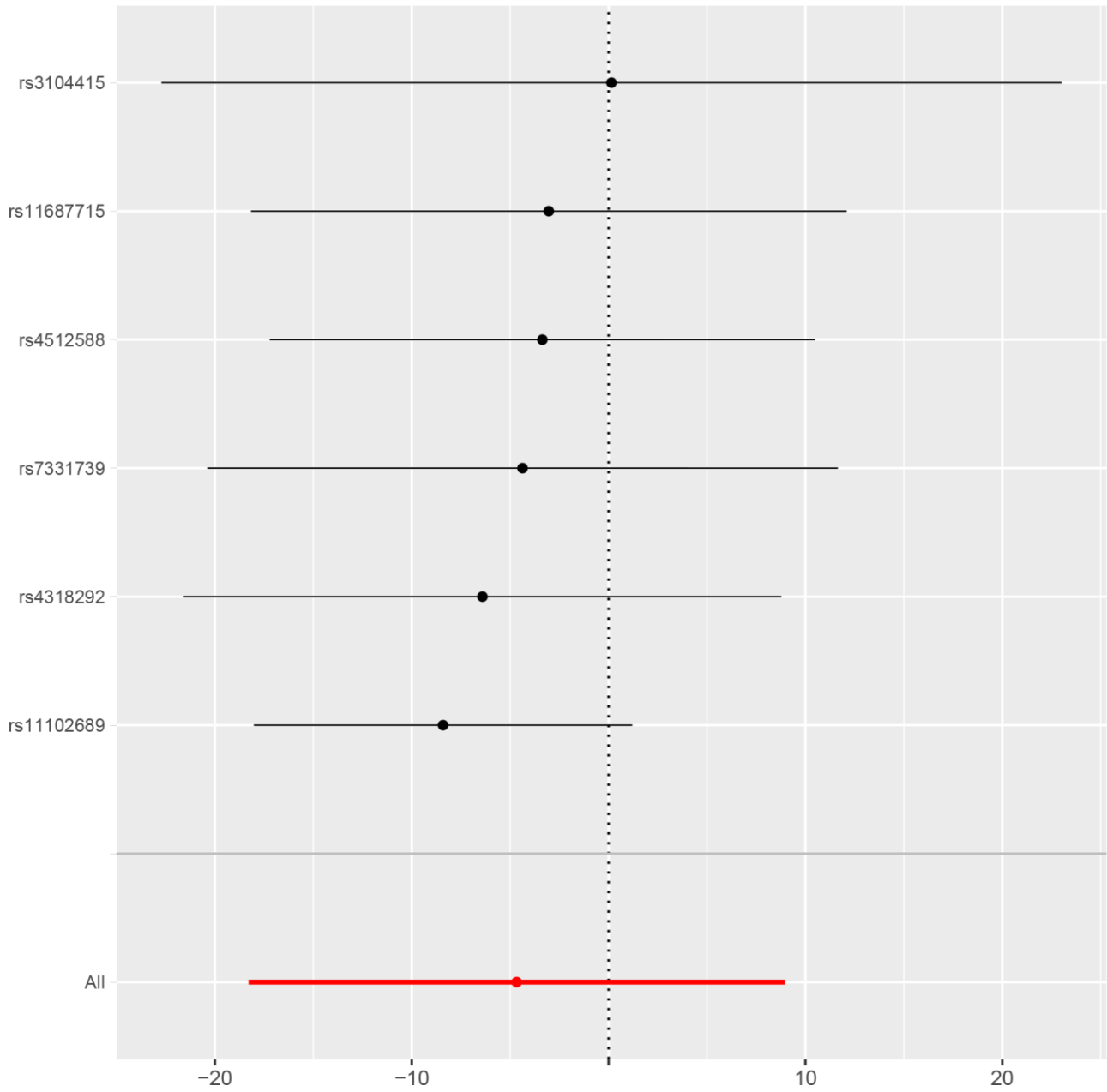
Supplementary Figure 5. MR leave−one−out sensitivity analysis for 'TB-BMD' on 'RA'.
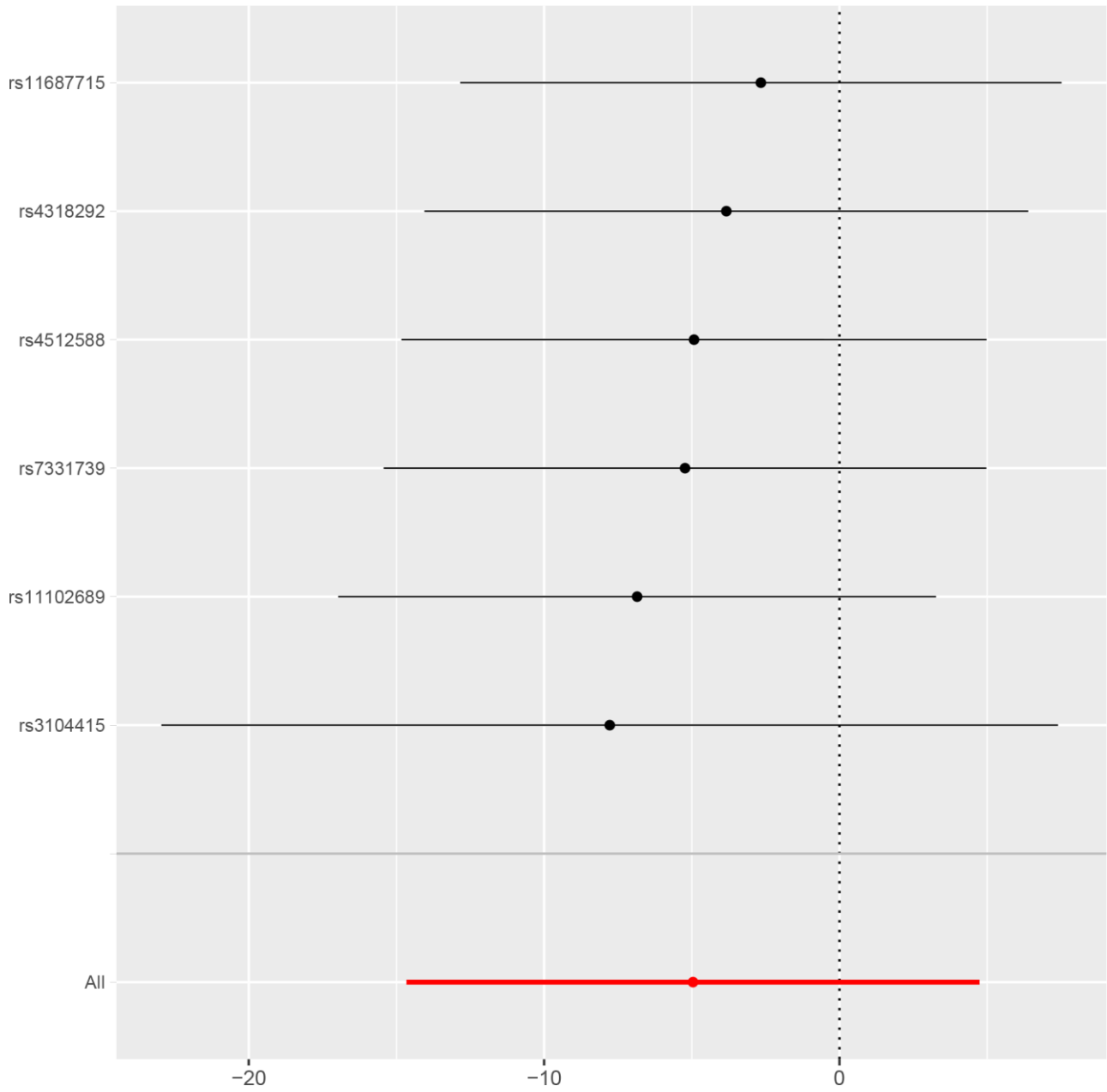
Supplementary Figure 6. MR leave−one−out sensitivity analysis for 'RA' on 'Heel BMD'.
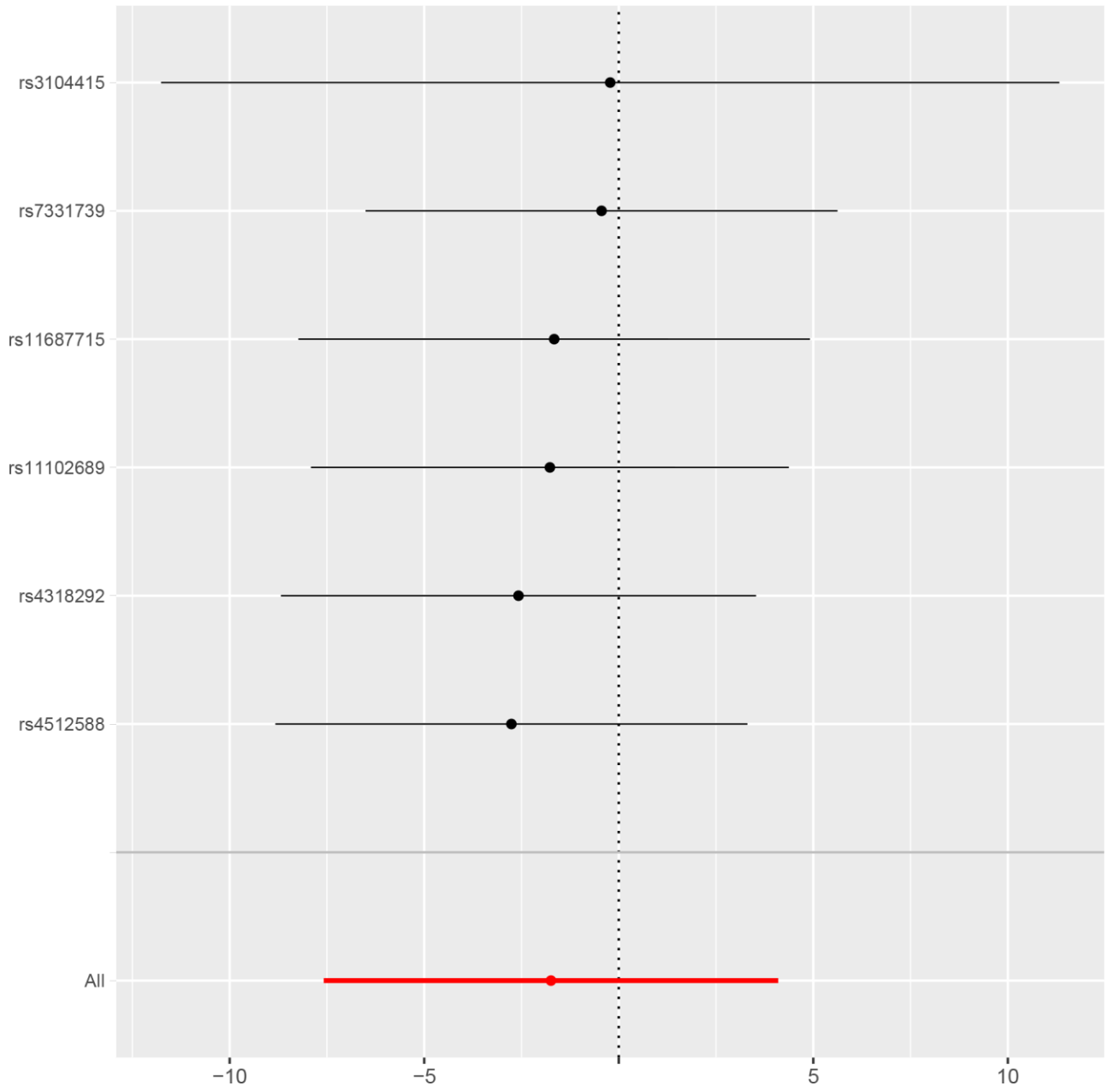
Supplementary Figure 7. MR leave−one−out sensitivity analysis for 'RA' on 'FA-BMD'.

Supplementary Figure 8. MR leave−one−out sensitivity analysis for 'RA' on 'FN-BMD'.

Supplementary Figure 9. MR leave−one−out sensitivity analysis for 'RA' on 'LS-BMD'.

Supplementary Figure 10. MR leave−one−out sensitivity analysis for 'RA' on 'TB-BMD'.