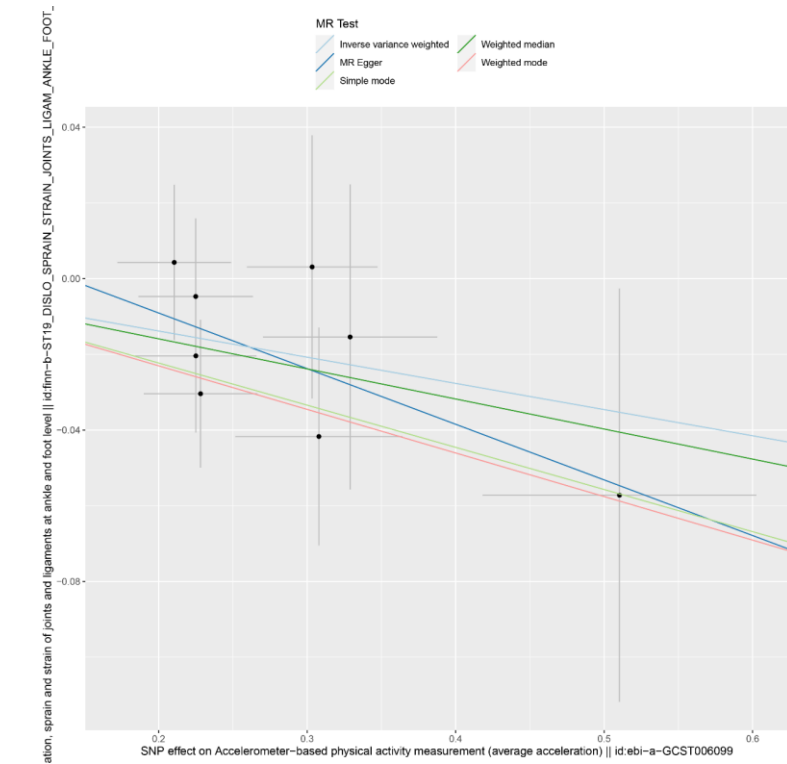
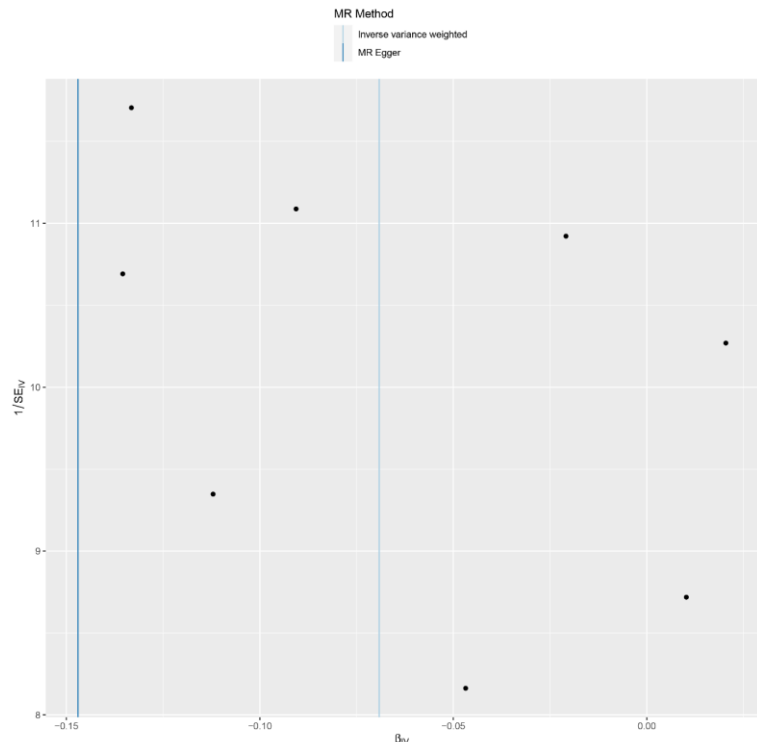


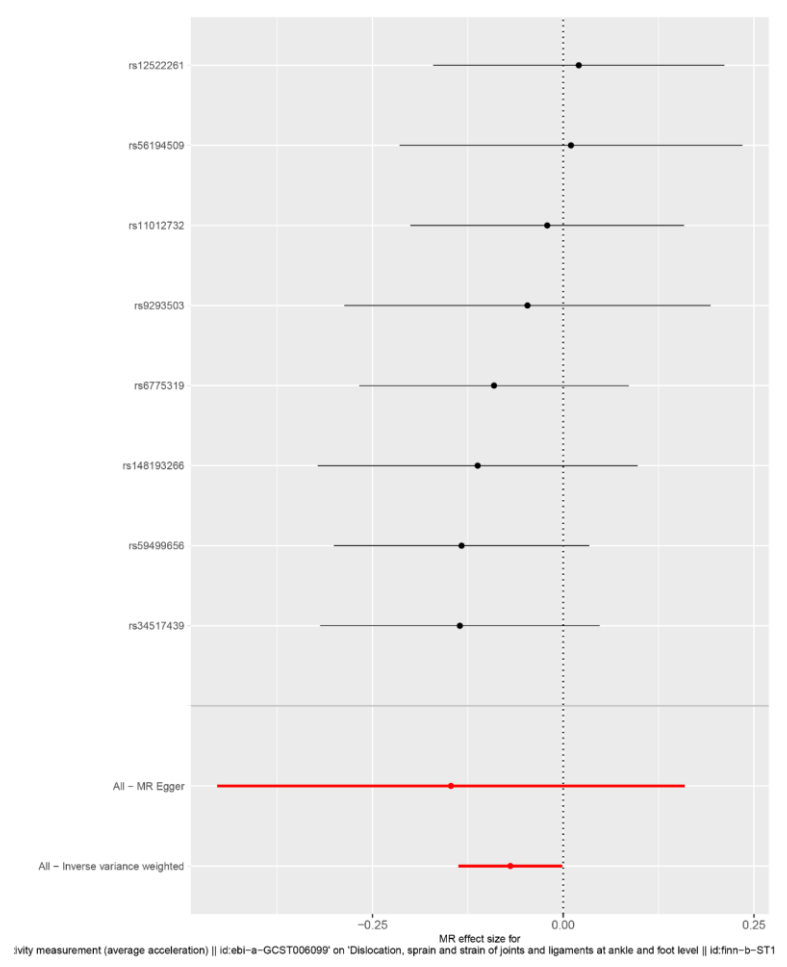
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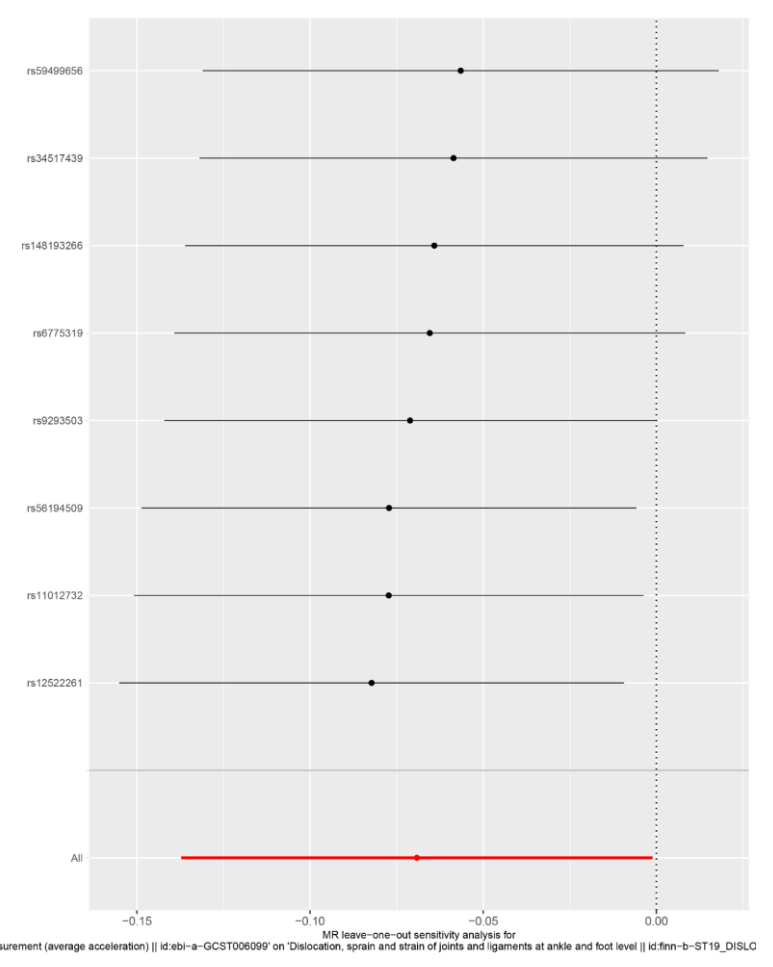
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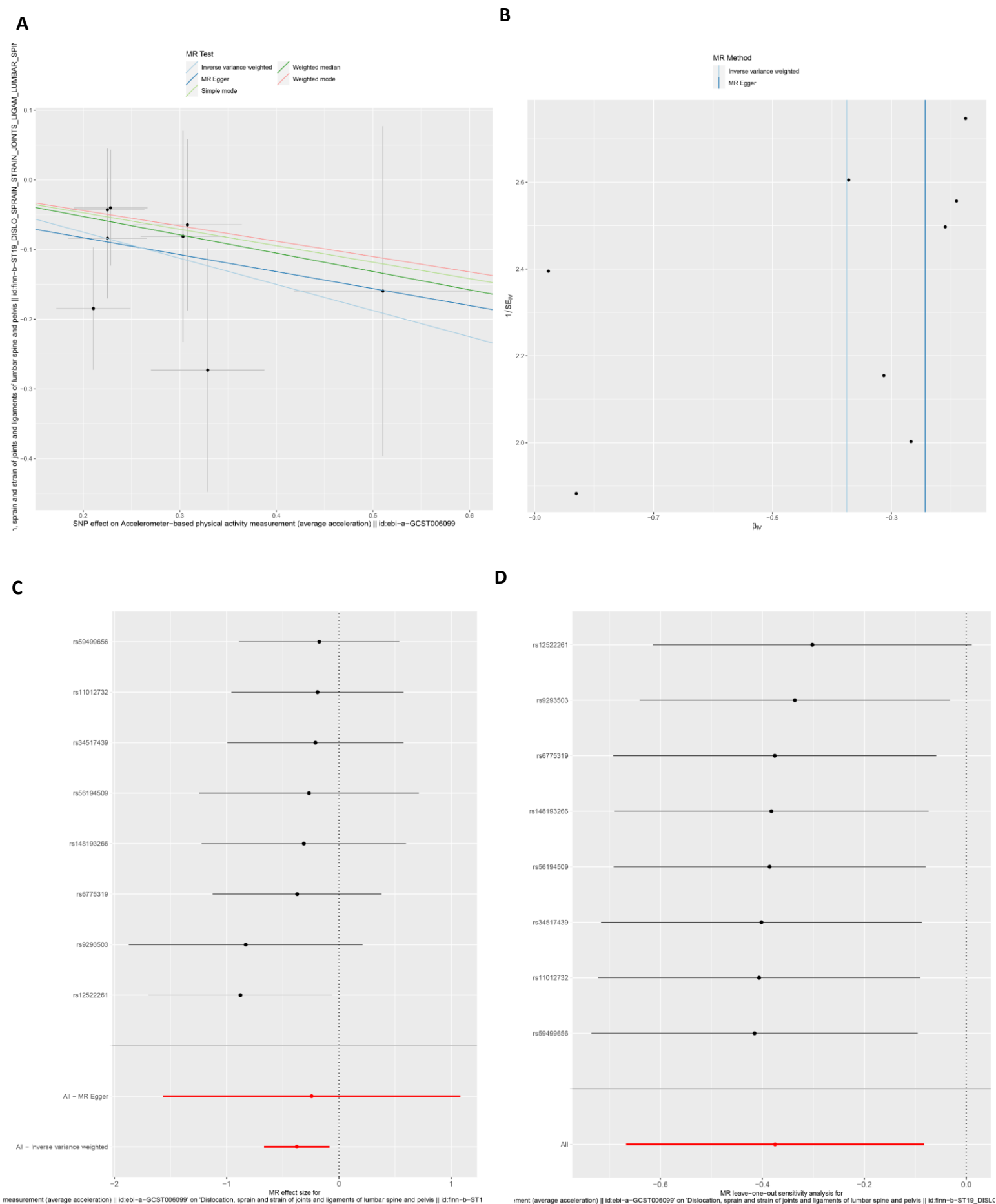
C



D



Supplementary Figure 8 Mendelian analysis results for AccAve on the risk of ankle and foot injuries. **(A)** Scatter plot of SNP potential effects on AccAve and injury at ankle and foot level **(B)**. Funnel plot exhibiting the estimation using the inverse of the standard error of the casual estimate with each individual SNP as a tool. **(C)** Forest plot of the casual effect of AccAve on the risk of injury at ankle and foot level **(D)** Forest plot of the leave-one-out sensitivity analysis, where each SNP was iteratively from the IVs. Abbreviation: SNP, single nucleotide polymorphism; AccAve, Accelerometer-based physical activity measurement (average acceleration); IVs, instrumental variables



Supplementary Figure 9 Mendelian analysis results for AccAve on the risk of lumbar spine and pelvis injuries. **(A)** Scatter plot of SNP potential effects on AccAve and the risk of lumbar spine and pelvis injury **(B)**. Funnel plot exhibiting the estimation using the inverse of the standard error of the causal estimate with each individual SNP as a tool. **(C)** Forest plot of the causal effect of AccAve on the risk of injury at ankle and foot level **(D)** Forest plot of the leave-one-out sensitivity analysis, where each SNP was iteratively from the IVs. Abbreviation: SNP, single nucleotide polymorphism; AccAve, Accelerometer-based physical activity measurement (average acceleration); IVs, instrumental variables