Title: Supplementary Data 1.

Description: GWAS meta-analysis association loci for WMH.

Title: Supplementary Data 2.

**Description:** GWAS association results for FA.

Title: Supplementary Data 3.

**Description:** GWAS association results for MD.

Title: Supplementary Data 4.

**Description:** Genetic correlation results for WMH, FA and MD.

**Title:** Supplementary Data 5.

Description: Significant genetic correlations with and without stroke cases from the third GWAS

study.

**Title:** Supplementary Data 6. **Description:** HyprColoc results.

Title: Supplementary Data 7.

**Description:** PhenoScanner annotations.

Title: Supplementary Data 8.

**Description:** TWAS associations results for WMH, FA and MD.

Title: Supplementary Data 9.

**Description:** UK Biobank field codes to derive output phenotypes