

Online-only Table 1: Single SNP associations with ischemic stroke under a dominant model

| SNP | MA ^a | Familial Caucasian series (264 patients, 374 controls) | | | ISGS Caucasian series (449 patients, 334 controls) | | | Combined Caucasian series (713 patients, 708 controls) | | | ISGS African American series (166 patients, 117 controls) | | |
|------------|-----------------|--|-------------------|---------|--|-------------------|---------|--|--------------------|---------|---|-------------------|---------|
| | | MAF | OR (95% CI) | P-value | MAF | OR (95% CI) | P-value | MAF | OR (95% CI) | P-value | MAF | OR (95% CI) | P-value |
| rs646776 | C | 19.8% | 1.00 (0.72, 1.39) | 0.99 | 23.2% | 1.17 (0.85, 1.61) | 0.34 | 21.7% | 1.07 (0.86 - 1.33) | 0.56 | 36.2% | 0.65 (0.38, 1.13) | 0.13 |
| rs11206510 | C | 18.8% | 1.05 (0.75, 1.47) | 0.76 | 19.3% | 0.94 (0.68, 1.31) | 0.72 | 19.1% | 1.03 (0.82 - 1.29) | 0.80 | 12.2% | 0.89 (0.48, 1.67) | 0.71 |
| rs6725887 | C | 12.8% | 0.76 (0.52, 1.11) | 0.15 | 11.8% | 0.93 (0.64, 1.35) | 0.68 | 12.2% | 0.84 (0.66 - 1.08) | 0.18 | 2.5% | 1.23 (0.34, 4.42) | 0.75 |
| rs9818870 | T | 16.3% | 0.82 (0.58, 1.16) | 0.26 | 16.2% | 0.81 (0.57, 1.13) | 0.21 | 16.2% | 0.80 (0.64 - 1.01) | 0.065 | 10.1% | 1.08 (0.55, 2.14) | 0.82 |
| rs12526453 | G | 35.2% | 1.11 (0.80, 1.54) | 0.52 | 33.0% | 1.08 (0.79, 1.47) | 0.64 | 34.0% | 1.04 (0.84 - 1.29) | 0.70 | 15.9% | 1.23 (0.69, 2.20) | 0.48 |
| rs6922269 | A | 28.8% | 0.72 (0.52, 0.99) | 0.042 | 29.1% | 1.28 (0.94, 1.75) | 0.12 | 29.0% | 0.98 (0.79 - 1.21) | 0.83 | 53.4% | 1.09 (0.57, 2.08) | 0.79 |
| rs2048327 | C | 34.8% | 0.90 (0.66, 1.24) | 0.53 | 35.2% | 1.44 (1.05, 1.98) | 0.024 | 35.0% | 1.13 (0.91 - 1.40) | 0.26 | 8.0% | 0.91 (0.43, 1.92) | 0.80 |
| rs3127599 | T | 26.7% | 1.02 (0.74, 1.40) | 0.90 | 31.7% | 1.24 (0.90, 1.69) | 0.18 | 29.5% | 1.10 (0.89 - 1.36) | 0.40 | 28.3% | 1.20 (0.70, 2.07) | 0.50 |
| rs7767084 | C | 17.0% | 0.92 (0.65, 1.29) | 0.63 | 15.5% | 0.98 (0.70, 1.38) | 0.91 | 16.2% | 0.95 (0.76 - 1.20) | 0.68 | 2.7% | 0.68 (0.22, 2.12) | 0.51 |
| rs10755578 | G | 45.8% | 0.90 (0.64, 1.28) | 0.56 | 47.1% | 1.50 (1.06, 2.13) | 0.024 | 46.5% | 1.09 (0.86 - 1.38) | 0.48 | 33.0% | 0.96 (0.55, 1.66) | 0.87 |
| rs1333040 | C | 41.0% | 0.98 (0.71, 1.37) | 0.92 | 38.0% | 1.46 (1.06, 2.01) | 0.021 | 39.3% | 1.20 (0.96 - 1.50) | 0.10 | 38.5% | 0.53 (0.30, 0.93) | 0.026 |
| rs4977574 | G | 47.2% | 1.02 (0.72, 1.44) | 0.91 | 51.3% | 0.79 (0.55, 1.14) | 0.21 | 49.4% | 0.93 (0.73 - 1.18) | 0.55 | 20.5% | 0.95 (0.54, 1.67) | 0.86 |
| rs1333042 | A | 50.8% | 1.29 (0.89, 1.86) | 0.17 | 46.9% | 1.04 (0.74, 1.47) | 0.83 | 48.7% | 1.14 (0.90 - 1.45) | 0.28 | 8.5% | 0.61 (0.30, 1.24) | 0.17 |
| rs2383207 | A | 49.9% | 1.22 (0.85, 1.76) | 0.27 | 45.9% | 1.07 (0.76, 1.51) | 0.68 | 47.7% | 1.13 (0.89 - 1.43) | 0.32 | 8.5% | 0.61 (0.30, 1.24) | 0.17 |
| rs1746048 | T | 14.4% | 0.86 (0.60, 1.23) | 0.40 | 12.4% | 1.05 (0.73, 1.52) | 0.80 | 13.3% | 0.96 (0.75 - 1.22) | 0.72 | 45.8% | 1.44 (0.80, 2.58) | 0.22 |
| rs2259816 | T | 34.2% | 0.80 (0.58, 1.10) | 0.17 | 35.4% | 1.25 (0.91, 1.71) | 0.17 | 34.9% | 1.01 (0.82 - 1.25) | 0.92 | 13.1% | 0.80 (0.43, 1.49) | 0.48 |
| rs1048990 | G | 16.9% | 0.74 (0.52, 1.05) | 0.087 | 15.6% | 0.83 (0.59, 1.16) | 0.27 | 16.2% | 0.82 (0.65 - 1.03) | 0.087 | 3.5% | 0.33 (0.11, 0.96) | 0.042 |
| rs17228212 | C | 30.0% | 1.32 (0.96, 1.81) | 0.091 | 29.0% | 0.77 (0.57, 1.06) | 0.11 | 29.4% | 1.03 (0.84 - 1.28) | 0.76 | 13.6% | 1.26 (0.69, 2.31) | 0.45 |
| rs1122608 | T | 25.5% | 1.18 (0.86, 1.63) | 0.31 | 26.2% | 0.95 (0.70, 1.31) | 0.77 | 25.9% | 1.12 (0.90 - 1.38) | 0.31 | 4.1% | 0.91 (0.36, 2.32) | 0.85 |
| rs9982601 | T | 12.0% | 0.75 (0.51, 1.09) | 0.13 | 10.7% | 1.13 (0.77, 1.68) | 0.53 | 11.3% | 0.91 (0.70 - 1.18) | 0.48 | 25.8% | 0.57 (0.33, 0.97) | 0.039 |

^a The minor allele was considered to be the least frequent allele across all series⁷. ORs and p-values result from logistic regression models adjusted for age and gender (Familial Caucasian series), age, gender, atrial fibrillation, CAD, diabetes, hypertension, and current smoking (ISGS Caucasian series), age, gender, and series (combined Caucasian series), and age, gender, CAD, diabetes, hypertension, and current smoking (ISGS African American series). ORs correspond to presence of the minor allele. SNP=single nucleotide polymorphism. MA=minor allele. MAF=minor allele frequency. OR=odds ratio. CI=confidence interval. ISGS=Ischemic Stroke Genetics Study.

Online-only Table 2: Single SNP associations with ischemic stroke subtypes in the familial Caucasian series under an additive model

| SNP | MA ^a | MAF | Association with cardioembolic stroke (34 patients, 374 controls) | | Association with large vessel stroke (67 patients, 374 controls) | | Association with small vessel stroke (81 patients, 374 controls) | |
|------------|-----------------|-------|--|---------|---|---------|---|---------|
| | | | OR (95% CI) | P-value | OR (95% CI) | P-value | OR (95% CI) | P-value |
| rs646776 | C | 19.8% | 1.40 (0.76 - 2.56) | 0.28 | 1.02 (0.63 - 1.65) | 0.94 | 1.04 (0.67 - 1.61) | 0.86 |
| rs11206510 | C | 18.8% | 1.10 (0.60 - 2.02) | 0.76 | 0.92 (0.56 - 1.51) | 0.74 | 0.90 (0.58 - 1.41) | 0.64 |
| rs6725887 | C | 12.8% | 0.29 (0.09 - 0.93) | 0.038 | 0.90 (0.51 - 1.56) | 0.70 | 0.93 (0.56 - 1.53) | 0.77 |
| rs9818870 | T | 16.3% | 1.11 (0.60 - 2.07) | 0.74 | 0.57 (0.32 - 1.01) | 0.055 | 0.87 (0.55 - 1.38) | 0.55 |
| rs12526453 | G | 35.2% | 0.95 (0.54 - 1.65) | 0.85 | 0.94 (0.62 - 1.42) | 0.77 | 0.97 (0.67 - 1.42) | 0.88 |
| rs6922269 | A | 28.8% | 1.10 (0.64 - 1.89) | 0.74 | 0.65 (0.42 - 1.01) | 0.056 | 1.02 (0.70 - 1.48) | 0.92 |
| rs2048327 | C | 34.8% | 0.95 (0.57 - 1.60) | 0.84 | 0.87 (0.59 - 1.28) | 0.48 | 0.73 (0.51 - 1.06) | 0.097 |
| rs3127599 | T | 26.7% | 0.91 (0.51 - 1.62) | 0.75 | 1.24 (0.83 - 1.86) | 0.30 | 0.74 (0.49 - 1.12) | 0.16 |
| rs7767084 | C | 17.0% | 1.00 (0.53 - 1.90) | 1.00 | 0.74 (0.43 - 1.27) | 0.27 | 1.10 (0.71 - 1.70) | 0.68 |
| rs10755578 | G | 45.8% | 0.77 (0.46 - 1.30) | 0.33 | 0.98 (0.67 - 1.43) | 0.92 | 0.82 (0.58 - 1.17) | 0.27 |
| rs1333040 | C | 41.0% | 1.60 (0.97 - 2.63) | 0.064 | 0.70 (0.47 - 1.04) | 0.075 | 1.12 (0.79 - 1.58) | 0.53 |
| rs4977574 | G | 47.2% | 0.54 (0.32 - 0.91) | 0.021 | 1.32 (0.92 - 1.90) | 0.13 | 0.93 (0.67 - 1.30) | 0.67 |
| rs1333042 | A | 50.8% | 1.57 (0.95 - 2.58) | 0.077 | 0.83 (0.58 - 1.18) | 0.29 | 1.09 (0.79 - 1.51) | 0.61 |
| rs2383207 | A | 49.9% | 1.54 (0.94 - 2.53) | 0.089 | 0.85 (0.60 - 1.22) | 0.37 | 1.08 (0.78 - 1.49) | 0.66 |
| rs1746048 | T | 14.4% | 1.08 (0.55 - 2.12) | 0.83 | 0.58 (0.31 - 1.07) | 0.080 | 1.02 (0.64 - 1.64) | 0.92 |
| rs2259816 | T | 34.2% | 0.71 (0.41 - 1.23) | 0.22 | 1.01 (0.69 - 1.48) | 0.97 | 0.89 (0.62 - 1.27) | 0.52 |
| rs1048990 | G | 16.9% | 0.42 (0.18 - 1.01) | 0.052 | 0.57 (0.32 - 1.02) | 0.057 | 0.87 (0.55 - 1.39) | 0.56 |
| rs17228212 | C | 30.0% | 1.20 (0.69 - 2.09) | 0.51 | 1.14 (0.75 - 1.71) | 0.55 | 1.38 (0.96 - 1.99) | 0.086 |
| rs1122608 | T | 25.5% | 1.30 (0.76 - 2.22) | 0.33 | 1.14 (0.75 - 1.73) | 0.55 | 1.10 (0.75 - 1.62) | 0.61 |
| rs9982601 | T | 12.0% | 0.92 (0.41 - 2.06) | 0.84 | 0.86 (0.48 - 1.54) | 0.61 | 0.91 (0.53 - 1.57) | 0.73 |

^a The minor allele was considered to be the least frequent allele across all series'. ORs and p-values result from logistic regression models adjusted for age and gender. ORs correspond to an additional minor allele. SNP=single nucleotide polymorphism. MA=minor allele. MAF=minor allele frequency. OR=odds ratio. CI=confidence interval.

Online-only Table 3: Single SNP associations with ischemic stroke subtypes in the ISGS Caucasian series under an additive model

| SNP | MA ^a | MAF | Association with cardioembolic stroke (123 patients, 334 controls) | | Association with large vessel stroke (90 patients, 334 controls) | | Association with small vessel stroke (60 patients, 334 controls) | |
|------------|-----------------|-------|---|---------|---|---------|---|---------|
| | | | OR (95% CI) | P-value | OR (95% CI) | P-value | OR (95% CI) | P-value |
| rs646776 | C | 23.2% | 0.91 (0.62 - 1.35) | 0.65 | 1.17 (0.75 - 1.83) | 0.49 | 0.78 (0.45 - 1.35) | 0.37 |
| rs11206510 | C | 19.3% | 0.96 (0.63 - 1.46) | 0.84 | 0.98 (0.62 - 1.56) | 0.93 | 0.71 (0.38 - 1.31) | 0.27 |
| rs6725887 | C | 11.8% | 0.85 (0.51 - 1.41) | 0.52 | 0.73 (0.39 - 1.38) | 0.33 | 0.63 (0.29 - 1.36) | 0.24 |
| rs9818870 | T | 16.2% | 0.99 (0.64 - 1.55) | 0.98 | 0.87 (0.51 - 1.48) | 0.60 | 0.86 (0.47 - 1.58) | 0.63 |
| rs12526453 | G | 33.0% | 0.75 (0.51 - 1.09) | 0.13 | 1.16 (0.78 - 1.72) | 0.45 | 1.32 (0.86 - 2.04) | 0.21 |
| rs6922269 | A | 29.1% | 1.00 (0.68 - 1.46) | 1.00 | 1.28 (0.83 - 1.99) | 0.27 | 2.26 (1.36 - 3.74) | 0.002 |
| rs2048327 | C | 35.2% | 1.23 (0.86 - 1.75) | 0.26 | 1.35 (0.91 - 2.01) | 0.14 | 1.47 (0.93 - 2.33) | 0.096 |
| rs3127599 | T | 31.7% | 1.11 (0.78 - 1.58) | 0.57 | 1.29 (0.86 - 1.93) | 0.22 | 1.48 (0.92 - 2.37) | 0.11 |
| rs7767084 | C | 15.5% | 0.96 (0.60 - 1.54) | 0.85 | 0.96 (0.56 - 1.65) | 0.89 | 0.92 (0.49 - 1.72) | 0.79 |
| rs10755578 | G | 47.1% | 1.08 (0.77 - 1.50) | 0.66 | 1.36 (0.94 - 1.98) | 0.11 | 1.52 (0.98 - 2.36) | 0.065 |
| rs1333040 | C | 38.0% | 1.43 (1.02 - 2.00) | 0.037 | 0.95 (0.65 - 1.39) | 0.78 | 1.52 (0.98 - 2.37) | 0.062 |
| rs4977574 | G | 51.3% | 0.79 (0.56 - 1.10) | 0.16 | 0.97 (0.67 - 1.41) | 0.88 | 0.66 (0.41 - 1.05) | 0.080 |
| rs1333042 | A | 46.9% | 1.30 (0.93 - 1.82) | 0.12 | 1.03 (0.70 - 1.51) | 0.89 | 1.41 (0.90 - 2.23) | 0.14 |
| rs2383207 | A | 45.9% | 1.30 (0.93 - 1.81) | 0.12 | 0.97 (0.66 - 1.41) | 0.86 | 1.37 (0.88 - 2.15) | 0.17 |
| rs1746048 | T | 12.4% | 1.30 (0.77 - 2.21) | 0.33 | 0.93 (0.48 - 1.77) | 0.81 | 1.62 (0.79 - 3.31) | 0.19 |
| rs2259816 | T | 35.4% | 1.34 (0.94 - 1.91) | 0.11 | 1.07 (0.72 - 1.59) | 0.73 | 1.63 (1.03 - 2.56) | 0.035 |
| rs1048990 | G | 15.6% | 1.17 (0.74 - 1.86) | 0.50 | 0.70 (0.39 - 1.26) | 0.23 | 0.75 (0.38 - 1.49) | 0.41 |
| rs17228212 | C | 29.0% | 0.90 (0.63 - 1.28) | 0.55 | 0.75 (0.50 - 1.13) | 0.17 | 0.81 (0.50 - 1.31) | 0.39 |
| rs1122608 | T | 26.2% | 0.83 (0.56 - 1.22) | 0.34 | 1.03 (0.68 - 1.56) | 0.89 | 1.03 (0.64 - 1.68) | 0.89 |
| rs9982601 | T | 10.7% | 1.20 (0.71 - 2.02) | 0.50 | 1.31 (0.74 - 2.31) | 0.36 | 1.84 (0.97 - 3.47) | 0.062 |

^a The minor allele was considered to be the least frequent allele across all series'. ORs and p-values result from logistic regression models adjusted for age, gender, atrial fibrillation, coronary artery disease, diabetes, hypertension, and current smoking. ORs correspond to an additional minor allele. SNP=single nucleotide polymorphism. MA=minor allele. MAF=minor allele frequency. OR=odds ratio. CI=confidence interval. ISGS=Ischemic Stroke Genetics Study.

Online-only Table 4a: Allele and genotype frequencies in the familial Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs646776 | | | | | |
| Cases | C: 106 (20%) | T: 420 (80%) | TT: 168 (64%) | CT: 84 (32%) | CC: 11 (3%) |
| Cardioembolic | C: 17 (25%) | T: 51 (75%) | TT: 18 (53%) | CT: 15 (44%) | CC: 1 (3%) |
| Small vessel | C: 33 (20%) | T: 129 (80%) | TT: 51 (63%) | CT: 27 (33%) | CC: 3 (3%) |
| Large vessel | C: 26 (19%) | T: 108 (81%) | TT: 43 (64%) | CT: 22 (33%) | CC: 2 (3%) |
| Controls | C: 146 (20%) | T: 602 (80%) | TT: 239 (64%) | CT: 124 (33%) | CC: 11 (3%) |
| rs11206510 | | | | | |
| Cases | C: 99 (19%) | T: 427 (81%) | TT: 172 (65%) | CT: 83 (32%) | CC: 8 (3%) |
| Cardioembolic | C: 14 (21%) | T: 54 (79%) | TT: 22 (65%) | CT: 10 (29%) | CC: 2 (3%) |
| Small vessel | C: 28 (17%) | T: 134 (83%) | TT: 55 (68%) | CT: 24 (30%) | CC: 2 (3%) |
| Large vessel | C: 22 (16%) | T: 112 (84%) | TT: 46 (69%) | CT: 20 (30%) | CC: 1 (3%) |
| Controls | C: 140 (19%) | T: 606 (81%) | TT: 248 (66%) | CT: 110 (29%) | CC: 15 (3%) |
| rs6725887 | | | | | |
| Cases | C: 59 (11%) | T: 467 (89%) | TT: 208 (79%) | CT: 51 (19%) | CC: 4 (3%) |
| Cardioembolic | C: 3 (4%) | T: 65 (96%) | TT: 31 (91%) | CT: 3 (9%) | CC: 0 (3%) |
| Small vessel | C: 21 (13%) | T: 141 (87%) | TT: 61 (75%) | CT: 19 (23%) | CC: 1 (3%) |
| Large vessel | C: 17 (13%) | T: 117 (87%) | TT: 51 (76%) | CT: 15 (22%) | CC: 1 (3%) |
| Controls | C: 103 (14%) | T: 641 (86%) | TT: 276 (74%) | CT: 89 (24%) | CC: 7 (3%) |
| rs9818870 | | | | | |
| Cases | T: 78 (15%) | C: 448 (85%) | CC: 192 (73%) | TC: 64 (24%) | TT: 7 (3%) |
| Cardioembolic | T: 13 (19%) | C: 55 (81%) | CC: 23 (68%) | TC: 9 (26%) | TT: 2 (3%) |
| Small vessel | T: 25 (15%) | C: 137 (85%) | CC: 58 (72%) | TC: 21 (26%) | TT: 2 (3%) |
| Large vessel | T: 14 (10%) | C: 120 (90%) | CC: 54 (81%) | TC: 12 (18%) | TT: 1 (3%) |
| Controls | T: 129 (17%) | C: 617 (83%) | CC: 257 (69%) | TC: 103 (28%) | TT: 13 (3%) |
| rs12526453 | | | | | |
| Cases | G: 192 (37%) | C: 334 (63%) | CC: 102 (39%) | GC: 130 (49%) | GG: 31 (3%) |
| Cardioembolic | G: 23 (34%) | C: 45 (66%) | CC: 14 (41%) | GC: 17 (50%) | GG: 3 (3%) |
| Small vessel | G: 55 (34%) | C: 107 (66%) | CC: 34 (42%) | GC: 39 (48%) | GG: 8 (3%) |
| Large vessel | G: 44 (33%) | C: 90 (67%) | CC: 29 (43%) | GC: 32 (48%) | GG: 6 (3%) |
| Controls | G: 253 (34%) | C: 487 (66%) | CC: 153 (41%) | GC: 181 (49%) | GG: 36 (3%) |

Online-only Table 4b: Allele and genotype frequencies in the familial Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs6922269 | | | | | |
| Cases | A: 138 (26%) | G: 388 (74%) | GG: 146 (56%) | AG: 96 (37%) | AA: 21 (3%) |
| Cardioembolic | A: 22 (32%) | G: 46 (68%) | GG: 15 (44%) | AG: 16 (47%) | AA: 3 (3%) |
| Small vessel | A: 50 (31%) | G: 112 (69%) | GG: 39 (48%) | AG: 34 (42%) | AA: 8 (3%) |
| Large vessel | A: 30 (22%) | G: 104 (78%) | GG: 42 (63%) | AG: 20 (30%) | AA: 5 (3%) |
| Controls | A: 228 (31%) | G: 516 (69%) | GG: 176 (47%) | AG: 164 (44%) | AA: 32 (3%) |
| rs2048327 | | | | | |
| Cases | C: 171 (33%) | T: 355 (67%) | TT: 115 (44%) | CT: 125 (48%) | CC: 23 (3%) |
| Cardioembolic | C: 24 (35%) | T: 44 (65%) | TT: 13 (38%) | CT: 18 (53%) | CC: 3 (3%) |
| Small vessel | C: 48 (30%) | T: 114 (70%) | TT: 40 (49%) | CT: 34 (42%) | CC: 7 (3%) |
| Large vessel | C: 44 (33%) | T: 90 (67%) | TT: 29 (43%) | CT: 32 (48%) | CC: 6 (3%) |
| Controls | C: 270 (36%) | T: 472 (64%) | TT: 153 (41%) | CT: 166 (45%) | CC: 52 (3%) |
| rs3127599 | | | | | |
| Cases | T: 141 (27%) | C: 381 (73%) | CC: 140 (54%) | TC: 101 (39%) | TT: 20 (3%) |
| Cardioembolic | T: 17 (25%) | C: 51 (75%) | CC: 18 (53%) | TC: 15 (44%) | TT: 1 (3%) |
| Small vessel | T: 34 (21%) | C: 126 (79%) | CC: 49 (61%) | TC: 28 (35%) | TT: 3 (3%) |
| Large vessel | T: 40 (30%) | C: 92 (70%) | CC: 32 (48%) | TC: 28 (42%) | TT: 6 (3%) |
| Controls | T: 198 (27%) | C: 548 (73%) | CC: 202 (54%) | TC: 144 (39%) | TT: 27 (3%) |
| rs7767084 | | | | | |
| Cases | C: 85 (16%) | T: 441 (84%) | TT: 184 (70%) | CT: 73 (28%) | CC: 6 (3%) |
| Cardioembolic | C: 12 (18%) | T: 56 (82%) | TT: 24 (71%) | CT: 8 (24%) | CC: 2 (3%) |
| Small vessel | C: 31 (19%) | T: 131 (81%) | TT: 51 (63%) | CT: 29 (36%) | CC: 1 (3%) |
| Large vessel | C: 18 (13%) | T: 116 (87%) | TT: 49 (73%) | CT: 18 (27%) | CC: 0 (3%) |
| Controls | C: 132 (18%) | T: 616 (82%) | TT: 255 (68%) | CT: 106 (28%) | CC: 13 (3%) |
| rs10755578 | | | | | |
| Cases | G: 231 (44%) | C: 295 (56%) | CC: 78 (30%) | GC: 139 (53%) | GG: 46 (3%) |
| Cardioembolic | G: 28 (41%) | C: 40 (59%) | CC: 10 (29%) | GC: 20 (59%) | GG: 4 (3%) |
| Small vessel | G: 69 (43%) | C: 93 (57%) | CC: 24 (30%) | GC: 45 (56%) | GG: 12 (3%) |
| Large vessel | G: 61 (46%) | C: 73 (54%) | CC: 18 (27%) | GC: 37 (55%) | GG: 12 (3%) |
| Controls | G: 352 (47%) | C: 396 (53%) | CC: 103 (28%) | GC: 190 (51%) | GG: 81 (3%) |

Online-only Table 4c: Allele and genotype frequencies in the familial Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs1333040 | | | | | |
| Cases | C: 215 (41%) | T: 313 (59%) | TT: 93 (35%) | CT: 127 (48%) | CC: 44 (3%) |
| Cardioembolic | C: 36 (53%) | T: 32 (47%) | TT: 8 (24%) | CT: 16 (47%) | CC: 10 (3%) |
| Small vessel | C: 71 (44%) | T: 91 (56%) | TT: 24 (30%) | CT: 43 (53%) | CC: 14 (3%) |
| Large vessel | C: 44 (33%) | T: 90 (67%) | TT: 28 (42%) | CT: 34 (51%) | CC: 5 (3%) |
| Controls | C: 307 (41%) | T: 439 (59%) | TT: 130 (35%) | CT: 179 (48%) | CC: 64 (3%) |
| rs4977574 | | | | | |
| Cases | G: 244 (46%) | A: 282 (54%) | AA: 76 (29%) | GA: 130 (49%) | GG: 57 (3%) |
| Cardioembolic | G: 22 (32%) | A: 46 (68%) | AA: 14 (41%) | GA: 18 (53%) | GG: 2 (3%) |
| Small vessel | G: 74 (46%) | A: 88 (54%) | AA: 25 (31%) | GA: 38 (47%) | GG: 18 (3%) |
| Large vessel | G: 74 (55%) | A: 60 (45%) | AA: 14 (21%) | GA: 32 (48%) | GG: 21 (3%) |
| Controls | G: 355 (48%) | A: 389 (52%) | AA: 109 (29%) | GA: 171 (46%) | GG: 92 (3%) |
| rs1333042 | | | | | |
| Cases | A: 273 (52%) | G: 253 (48%) | GG: 60 (23%) | AG: 133 (51%) | AA: 70 (3%) |
| Cardioembolic | A: 42 (62%) | G: 26 (38%) | GG: 2 (6%) | AG: 22 (65%) | AA: 10 (3%) |
| Small vessel | A: 85 (52%) | G: 77 (48%) | GG: 19 (23%) | AG: 39 (48%) | AA: 23 (3%) |
| Large vessel | A: 60 (45%) | G: 74 (55%) | GG: 21 (31%) | AG: 32 (48%) | AA: 14 (3%) |
| Controls | A: 373 (50%) | G: 373 (50%) | GG: 103 (28%) | AG: 167 (45%) | AA: 103 (3%) |
| rs2383207 | | | | | |
| Cases | A: 269 (51%) | G: 259 (49%) | GG: 64 (24%) | AG: 131 (50%) | AA: 69 (3%) |
| Cardioembolic | A: 41 (60%) | G: 27 (40%) | GG: 2 (6%) | AG: 23 (68%) | AA: 9 (3%) |
| Small vessel | A: 83 (51%) | G: 79 (49%) | GG: 21 (26%) | AG: 37 (46%) | AA: 23 (3%) |
| Large vessel | A: 60 (45%) | G: 74 (55%) | GG: 21 (31%) | AG: 32 (48%) | AA: 14 (3%) |
| Controls | A: 367 (49%) | G: 379 (51%) | GG: 105 (28%) | AG: 169 (45%) | AA: 99 (3%) |
| rs1746048 | | | | | |
| Cases | T: 71 (13%) | C: 455 (87%) | CC: 197 (75%) | TC: 61 (23%) | TT: 5 (3%) |
| Cardioembolic | T: 11 (16%) | C: 57 (84%) | CC: 25 (74%) | TC: 7 (21%) | TT: 2 (3%) |
| Small vessel | T: 25 (15%) | C: 137 (85%) | CC: 59 (73%) | TC: 19 (23%) | TT: 3 (3%) |
| Large vessel | T: 13 (10%) | C: 121 (90%) | CC: 54 (81%) | TC: 13 (19%) | TT: 0 (3%) |
| Controls | T: 113 (15%) | C: 635 (85%) | CC: 269 (72%) | TC: 97 (26%) | TT: 8 (3%) |

Online-only Table 4d: Allele and genotype frequencies in the familial Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs2259816 | | | | | |
| Cases | T: 171 (33%) | G: 355 (67%) | GG: 124 (47%) | TG: 107 (41%) | TT: 32 (3%) |
| Cardioembolic | T: 19 (28%) | G: 49 (72%) | GG: 18 (53%) | TG: 13 (38%) | TT: 3 (3%) |
| Small vessel | T: 53 (33%) | G: 109 (67%) | GG: 38 (47%) | TG: 33 (41%) | TT: 10 (3%) |
| Large vessel | T: 47 (35%) | G: 87 (65%) | GG: 29 (43%) | TG: 29 (43%) | TT: 9 (3%) |
| Controls | T: 262 (35%) | G: 478 (65%) | GG: 154 (42%) | TG: 170 (46%) | TT: 46 (3%) |
| rs1048990 | | | | | |
| Cases | G: 75 (14%) | C: 449 (86%) | CC: 189 (72%) | GC: 71 (27%) | GG: 2 (3%) |
| Cardioembolic | G: 6 (9%) | C: 62 (91%) | CC: 28 (82%) | GC: 6 (18%) | GG: 0 (3%) |
| Small vessel | G: 27 (17%) | C: 135 (83%) | CC: 55 (68%) | GC: 25 (31%) | GG: 1 (3%) |
| Large vessel | G: 16 (12%) | C: 118 (88%) | CC: 51 (76%) | GC: 16 (24%) | GG: 0 (3%) |
| Controls | G: 137 (19%) | C: 597 (81%) | CC: 241 (66%) | GC: 115 (31%) | GG: 11 (3%) |
| rs17228212 | | | | | |
| Cases | C: 171 (33%) | T: 355 (67%) | TT: 115 (44%) | CT: 125 (48%) | CC: 23 (3%) |
| Cardioembolic | C: 22 (32%) | T: 46 (68%) | TT: 14 (41%) | CT: 18 (53%) | CC: 2 (3%) |
| Small vessel | C: 57 (35%) | T: 105 (65%) | TT: 35 (43%) | CT: 35 (43%) | CC: 11 (3%) |
| Large vessel | C: 41 (31%) | T: 93 (69%) | TT: 31 (46%) | CT: 31 (46%) | CC: 5 (3%) |
| Controls | C: 210 (28%) | T: 534 (72%) | TT: 188 (51%) | CT: 158 (42%) | CC: 26 (3%) |
| rs1122608 | | | | | |
| Cases | T: 144 (27%) | G: 382 (73%) | GG: 143 (54%) | TG: 96 (37%) | TT: 24 (3%) |
| Cardioembolic | T: 20 (29%) | G: 48 (71%) | GG: 18 (53%) | TG: 12 (35%) | TT: 4 (3%) |
| Small vessel | T: 42 (26%) | G: 120 (74%) | GG: 45 (56%) | TG: 30 (37%) | TT: 6 (3%) |
| Large vessel | T: 35 (26%) | G: 99 (74%) | GG: 37 (55%) | TG: 25 (37%) | TT: 5 (3%) |
| Controls | T: 180 (24%) | G: 564 (76%) | GG: 217 (58%) | TG: 130 (35%) | TT: 25 (3%) |
| rs9982601 | | | | | |
| Cases | T: 57 (11%) | C: 469 (89%) | CC: 211 (80%) | TC: 47 (18%) | TT: 5 (3%) |
| Cardioembolic | T: 8 (12%) | C: 60 (88%) | CC: 26 (76%) | TC: 8 (24%) | TT: 0 (3%) |
| Small vessel | T: 19 (12%) | C: 143 (88%) | CC: 63 (78%) | TC: 17 (21%) | TT: 1 (3%) |
| Large vessel | T: 15 (11%) | C: 119 (89%) | CC: 55 (82%) | TC: 9 (13%) | TT: 3 (3%) |
| Controls | T: 96 (13%) | C: 652 (87%) | CC: 281 (75%) | TC: 90 (24%) | TT: 3 (3%) |

Online-only Table 5a: Allele and genotype frequencies in the ISGS Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs646776 | | | | | |
| Cases | C: 213 (24%) | T: 685 (76%) | TT: 263 (59%) | CT: 159 (35%) | CC: 27 (3%) |
| Cardioembolic | C: 49 (20%) | T: 197 (80%) | TT: 80 (65%) | CT: 37 (30%) | CC: 6 (3%) |
| Small vessel | C: 23 (19%) | T: 97 (81%) | TT: 39 (65%) | CT: 19 (32%) | CC: 2 (3%) |
| Large vessel | C: 43 (24%) | T: 137 (76%) | TT: 51 (57%) | CT: 35 (39%) | CC: 4 (3%) |
| Controls | C: 151 (23%) | T: 517 (77%) | TT: 204 (61%) | CT: 109 (33%) | CC: 21 (3%) |
| rs11206510 | | | | | |
| Cases | C: 171 (19%) | T: 725 (81%) | TT: 291 (65%) | CT: 143 (32%) | CC: 14 (3%) |
| Cardioembolic | C: 43 (17%) | T: 203 (83%) | TT: 85 (69%) | CT: 33 (27%) | CC: 5 (3%) |
| Small vessel | C: 19 (16%) | T: 99 (84%) | TT: 40 (68%) | CT: 19 (32%) | CC: 0 (3%) |
| Large vessel | C: 36 (20%) | T: 144 (80%) | TT: 57 (63%) | CT: 30 (33%) | CC: 3 (3%) |
| Controls | C: 131 (20%) | T: 537 (80%) | TT: 218 (65%) | CT: 101 (30%) | CC: 15 (3%) |
| rs6725887 | | | | | |
| Cases | C: 102 (11%) | T: 794 (89%) | TT: 350 (78%) | CT: 94 (21%) | CC: 4 (3%) |
| Cardioembolic | C: 30 (12%) | T: 214 (88%) | TT: 94 (77%) | CT: 26 (21%) | CC: 2 (3%) |
| Small vessel | C: 10 (8%) | T: 110 (92%) | TT: 50 (83%) | CT: 10 (17%) | CC: 0 (3%) |
| Large vessel | C: 15 (8%) | T: 165 (92%) | TT: 75 (83%) | CT: 15 (17%) | CC: 0 (3%) |
| Controls | C: 83 (12%) | T: 585 (88%) | TT: 256 (77%) | CT: 73 (22%) | CC: 5 (3%) |
| rs9818870 | | | | | |
| Cases | T: 136 (15%) | C: 762 (85%) | CC: 324 (72%) | TC: 114 (25%) | TT: 11 (3%) |
| Cardioembolic | T: 43 (17%) | C: 203 (83%) | CC: 84 (68%) | TC: 35 (28%) | TT: 4 (3%) |
| Small vessel | T: 19 (16%) | C: 101 (84%) | CC: 44 (73%) | TC: 13 (22%) | TT: 3 (3%) |
| Large vessel | T: 27 (15%) | C: 153 (85%) | CC: 64 (71%) | TC: 25 (28%) | TT: 1 (3%) |
| Controls | T: 117 (18%) | C: 551 (82%) | CC: 225 (67%) | TC: 101 (30%) | TT: 8 (3%) |
| rs12526453 | | | | | |
| Cases | G: 296 (33%) | C: 602 (67%) | CC: 201 (45%) | GC: 200 (45%) | GG: 48 (3%) |
| Cardioembolic | G: 69 (28%) | C: 177 (72%) | CC: 60 (49%) | GC: 57 (46%) | GG: 6 (3%) |
| Small vessel | G: 45 (38%) | C: 75 (63%) | CC: 28 (47%) | GC: 19 (32%) | GG: 13 (3%) |
| Large vessel | G: 64 (36%) | C: 116 (64%) | CC: 36 (40%) | GC: 44 (49%) | GG: 10 (3%) |
| Controls | G: 221 (33%) | C: 447 (67%) | CC: 149 (45%) | GC: 149 (45%) | GG: 36 (3%) |

Online-only Table 5b: Allele and genotype frequencies in the ISGS Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs6922269 | | | | | |
| Cases | A: 278 (31%) | G: 620 (69%) | GG: 211 (47%) | AG: 198 (44%) | AA: 40 (3%) |
| Cardioembolic | A: 63 (26%) | G: 183 (74%) | GG: 72 (59%) | AG: 39 (32%) | AA: 12 (3%) |
| Small vessel | A: 46 (38%) | G: 74 (62%) | GG: 21 (35%) | AG: 32 (53%) | AA: 7 (3%) |
| Large vessel | A: 54 (30%) | G: 126 (70%) | GG: 41 (46%) | AG: 44 (49%) | AA: 5 (3%) |
| Controls | A: 178 (27%) | G: 490 (73%) | GG: 176 (53%) | AG: 138 (41%) | AA: 20 (3%) |
| rs2048327 | | | | | |
| Cases | C: 337 (38%) | T: 559 (62%) | TT: 169 (38%) | CT: 221 (49%) | CC: 58 (3%) |
| Cardioembolic | C: 94 (39%) | T: 150 (61%) | TT: 46 (38%) | CT: 58 (48%) | CC: 18 (3%) |
| Small vessel | C: 49 (41%) | T: 71 (59%) | TT: 22 (37%) | CT: 27 (45%) | CC: 11 (3%) |
| Large vessel | C: 67 (37%) | T: 113 (63%) | TT: 36 (40%) | CT: 41 (46%) | CC: 13 (3%) |
| Controls | C: 214 (32%) | T: 454 (68%) | TT: 151 (45%) | CT: 152 (46%) | CC: 31 (3%) |
| rs3127599 | | | | | |
| Cases | T: 292 (33%) | C: 600 (67%) | CC: 202 (45%) | TC: 196 (44%) | TT: 48 (3%) |
| Cardioembolic | T: 80 (33%) | C: 164 (67%) | CC: 57 (47%) | TC: 50 (41%) | TT: 15 (3%) |
| Small vessel | T: 43 (36%) | C: 75 (64%) | CC: 25 (42%) | TC: 25 (42%) | TT: 9 (3%) |
| Large vessel | T: 62 (34%) | C: 118 (66%) | CC: 37 (41%) | TC: 44 (49%) | TT: 9 (3%) |
| Controls | T: 202 (30%) | C: 466 (70%) | CC: 163 (49%) | TC: 140 (42%) | TT: 31 (3%) |
| rs7767084 | | | | | |
| Cases | C: 137 (15%) | T: 761 (85%) | TT: 318 (71%) | CT: 125 (28%) | CC: 6 (3%) |
| Cardioembolic | C: 40 (16%) | T: 206 (84%) | TT: 86 (70%) | CT: 34 (28%) | CC: 3 (3%) |
| Small vessel | C: 18 (15%) | T: 102 (85%) | TT: 43 (72%) | CT: 16 (27%) | CC: 1 (3%) |
| Large vessel | C: 24 (13%) | T: 156 (87%) | TT: 66 (73%) | CT: 24 (27%) | CC: 0 (3%) |
| Controls | C: 105 (16%) | T: 563 (84%) | TT: 236 (71%) | CT: 91 (27%) | CC: 7 (3%) |
| rs10755578 | | | | | |
| Cases | G: 436 (49%) | C: 460 (51%) | CC: 114 (25%) | GC: 232 (52%) | GG: 102 (3%) |
| Cardioembolic | G: 118 (48%) | C: 126 (52%) | CC: 32 (26%) | GC: 62 (51%) | GG: 28 (3%) |
| Small vessel | G: 64 (53%) | C: 56 (47%) | CC: 13 (22%) | GC: 30 (50%) | GG: 17 (3%) |
| Large vessel | G: 88 (49%) | C: 92 (51%) | CC: 21 (23%) | GC: 50 (56%) | GG: 19 (3%) |
| Controls | G: 301 (45%) | C: 367 (55%) | CC: 102 (31%) | GC: 163 (49%) | GG: 69 (3%) |

Online-only Table 5c: Allele and genotype frequencies in the ISGS Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs1333040 | | | | | |
| Cases | C: 362 (40%) | T: 536 (60%) | TT: 158 (35%) | CT: 220 (49%) | CC: 71 (3%) |
| Cardioembolic | C: 112 (46%) | T: 134 (54%) | TT: 36 (29%) | CT: 62 (50%) | CC: 25 (3%) |
| Small vessel | C: 56 (47%) | T: 64 (53%) | TT: 16 (27%) | CT: 32 (53%) | CC: 12 (3%) |
| Large vessel | C: 65 (36%) | T: 115 (64%) | TT: 37 (41%) | CT: 41 (46%) | CC: 12 (3%) |
| Controls | C: 232 (35%) | T: 434 (65%) | TT: 146 (44%) | CT: 142 (43%) | CC: 45 (3%) |
| rs4977574 | | | | | |
| Cases | G: 450 (50%) | A: 448 (50%) | AA: 113 (25%) | GA: 222 (49%) | GG: 114 (3%) |
| Cardioembolic | G: 110 (45%) | A: 136 (55%) | AA: 40 (33%) | GA: 56 (46%) | GG: 27 (3%) |
| Small vessel | G: 50 (42%) | A: 70 (58%) | AA: 17 (28%) | GA: 36 (60%) | GG: 7 (3%) |
| Large vessel | G: 92 (51%) | A: 88 (49%) | AA: 22 (24%) | GA: 44 (49%) | GG: 24 (3%) |
| Controls | G: 353 (53%) | A: 315 (47%) | AA: 73 (22%) | GA: 169 (51%) | GG: 92 (3%) |
| rs1333042 | | | | | |
| Cases | A: 431 (48%) | G: 467 (52%) | GG: 124 (28%) | AG: 219 (49%) | AA: 106 (3%) |
| Cardioembolic | A: 133 (54%) | G: 113 (46%) | GG: 29 (24%) | AG: 55 (45%) | AA: 39 (3%) |
| Small vessel | A: 66 (55%) | G: 54 (45%) | GG: 11 (18%) | AG: 32 (53%) | AA: 17 (3%) |
| Large vessel | A: 86 (48%) | G: 94 (52%) | GG: 24 (27%) | AG: 46 (51%) | AA: 20 (3%) |
| Controls | A: 304 (46%) | G: 364 (54%) | GG: 96 (29%) | AG: 172 (51%) | AA: 66 (3%) |
| rs2383207 | | | | | |
| Cases | A: 420 (47%) | G: 478 (53%) | GG: 129 (29%) | AG: 220 (49%) | AA: 100 (3%) |
| Cardioembolic | A: 130 (53%) | G: 116 (47%) | GG: 30 (24%) | AG: 56 (46%) | AA: 37 (3%) |
| Small vessel | A: 65 (54%) | G: 55 (46%) | GG: 12 (20%) | AG: 31 (52%) | AA: 17 (3%) |
| Large vessel | A: 82 (46%) | G: 98 (54%) | GG: 26 (29%) | AG: 46 (51%) | AA: 18 (3%) |
| Controls | A: 299 (45%) | G: 369 (55%) | GG: 101 (30%) | AG: 167 (50%) | AA: 66 (3%) |
| rs1746048 | | | | | |
| Cases | T: 116 (13%) | C: 782 (87%) | CC: 340 (76%) | TC: 102 (23%) | TT: 7 (3%) |
| Cardioembolic | T: 30 (12%) | C: 216 (88%) | CC: 95 (77%) | TC: 26 (21%) | TT: 2 (3%) |
| Small vessel | T: 16 (13%) | C: 104 (87%) | CC: 45 (75%) | TC: 14 (23%) | TT: 1 (3%) |
| Large vessel | T: 19 (11%) | C: 161 (89%) | CC: 71 (79%) | TC: 19 (21%) | TT: 0 (3%) |
| Controls | T: 78 (12%) | C: 590 (88%) | CC: 257 (77%) | TC: 76 (23%) | TT: 1 (3%) |

Online-only Table 5d: Allele and genotype frequencies in the ISGS Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs2259816 | | | | | |
| Cases | T: 326 (36%) | G: 572 (64%) | GG: 177 (39%) | TG: 218 (49%) | TT: 54 (3%) |
| Cardioembolic | T: 97 (39%) | G: 149 (61%) | GG: 41 (33%) | TG: 67 (54%) | TT: 15 (3%) |
| Small vessel | T: 49 (41%) | G: 71 (59%) | GG: 20 (33%) | TG: 31 (52%) | TT: 9 (3%) |
| Large vessel | T: 61 (34%) | G: 119 (66%) | GG: 40 (44%) | TG: 39 (43%) | TT: 11 (3%) |
| Controls | T: 229 (34%) | G: 439 (66%) | GG: 146 (44%) | TG: 147 (44%) | TT: 41 (3%) |
| rs1048990 | | | | | |
| Cases | G: 133 (15%) | C: 765 (85%) | CC: 319 (71%) | GC: 127 (28%) | GG: 3 (3%) |
| Cardioembolic | G: 44 (18%) | C: 202 (82%) | CC: 81 (66%) | GC: 40 (33%) | GG: 2 (3%) |
| Small vessel | G: 16 (13%) | C: 104 (87%) | CC: 44 (73%) | GC: 16 (27%) | GG: 0 (3%) |
| Large vessel | G: 23 (13%) | C: 157 (87%) | CC: 67 (74%) | GC: 23 (26%) | GG: 0 (3%) |
| Controls | G: 112 (17%) | C: 556 (83%) | CC: 227 (68%) | GC: 102 (31%) | GG: 5 (3%) |
| rs17228212 | | | | | |
| Cases | C: 250 (28%) | T: 648 (72%) | TT: 238 (53%) | CT: 172 (38%) | CC: 39 (3%) |
| Cardioembolic | C: 81 (33%) | T: 165 (67%) | TT: 57 (46%) | CT: 51 (41%) | CC: 15 (3%) |
| Small vessel | C: 35 (29%) | T: 85 (71%) | TT: 30 (50%) | CT: 25 (42%) | CC: 5 (3%) |
| Large vessel | C: 49 (27%) | T: 131 (73%) | TT: 50 (56%) | CT: 31 (34%) | CC: 9 (3%) |
| Controls | C: 204 (31%) | T: 464 (69%) | TT: 163 (49%) | CT: 138 (41%) | CC: 33 (3%) |
| rs1122608 | | | | | |
| Cases | T: 239 (27%) | G: 659 (73%) | GG: 245 (55%) | TG: 169 (38%) | TT: 35 (3%) |
| Cardioembolic | T: 62 (25%) | G: 184 (75%) | GG: 67 (54%) | TG: 50 (41%) | TT: 6 (3%) |
| Small vessel | T: 33 (28%) | G: 87 (73%) | GG: 33 (55%) | TG: 21 (35%) | TT: 6 (3%) |
| Large vessel | T: 50 (28%) | G: 130 (72%) | GG: 46 (51%) | TG: 38 (42%) | TT: 6 (3%) |
| Controls | T: 172 (26%) | G: 496 (74%) | GG: 186 (56%) | TG: 124 (37%) | TT: 24 (3%) |
| rs9982601 | | | | | |
| Cases | T: 99 (11%) | C: 799 (89%) | CC: 358 (80%) | TC: 83 (18%) | TT: 8 (3%) |
| Cardioembolic | T: 27 (11%) | C: 219 (89%) | CC: 98 (80%) | TC: 23 (19%) | TT: 2 (3%) |
| Small vessel | T: 18 (15%) | C: 102 (85%) | CC: 44 (73%) | TC: 14 (23%) | TT: 2 (3%) |
| Large vessel | T: 23 (13%) | C: 157 (87%) | CC: 70 (78%) | TC: 17 (19%) | TT: 3 (3%) |
| Controls | T: 69 (10%) | C: 599 (90%) | CC: 269 (81%) | TC: 61 (18%) | TT: 4 (3%) |

Online-only Table 6a: Allele and genotype frequencies in the combined Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs646776 | | | | | |
| Cases | C: 319 (22%) | T: 1105 (78%) | TT: 431 (61%) | CT: 243 (34%) | CC: 38 (3%) |
| Cardioembolic | C: 66 (21%) | T: 248 (79%) | TT: 98 (62%) | CT: 52 (33%) | CC: 7 (3%) |
| Small vessel | C: 56 (20%) | T: 226 (80%) | TT: 90 (64%) | CT: 46 (33%) | CC: 5 (3%) |
| Large vessel | C: 69 (22%) | T: 245 (78%) | TT: 94 (60%) | CT: 57 (36%) | CC: 6 (3%) |
| Controls | C: 297 (21%) | T: 1119 (79%) | TT: 443 (63%) | CT: 233 (33%) | CC: 32 (3%) |
| rs11206510 | | | | | |
| Cases | C: 270 (19%) | T: 1152 (81%) | TT: 463 (65%) | CT: 226 (32%) | CC: 22 (3%) |
| Cardioembolic | C: 57 (18%) | T: 257 (82%) | TT: 107 (68%) | CT: 43 (27%) | CC: 7 (3%) |
| Small vessel | C: 47 (17%) | T: 233 (83%) | TT: 95 (68%) | CT: 43 (31%) | CC: 2 (3%) |
| Large vessel | C: 58 (18%) | T: 256 (82%) | TT: 103 (66%) | CT: 50 (32%) | CC: 4 (3%) |
| Controls | C: 271 (19%) | T: 1143 (81%) | TT: 466 (66%) | CT: 211 (30%) | CC: 30 (3%) |
| rs6725887 | | | | | |
| Cases | C: 161 (11%) | T: 1261 (89%) | TT: 558 (78%) | CT: 145 (20%) | CC: 8 (3%) |
| Cardioembolic | C: 33 (11%) | T: 279 (89%) | TT: 125 (80%) | CT: 29 (19%) | CC: 2 (3%) |
| Small vessel | C: 31 (11%) | T: 251 (89%) | TT: 111 (79%) | CT: 29 (21%) | CC: 1 (3%) |
| Large vessel | C: 32 (10%) | T: 282 (90%) | TT: 126 (80%) | CT: 30 (19%) | CC: 1 (3%) |
| Controls | C: 186 (13%) | T: 1226 (87%) | TT: 532 (75%) | CT: 162 (23%) | CC: 12 (3%) |
| rs9818870 | | | | | |
| Cases | T: 214 (15%) | C: 1210 (85%) | CC: 516 (72%) | TC: 178 (25%) | TT: 18 (3%) |
| Cardioembolic | T: 56 (18%) | C: 258 (82%) | CC: 107 (68%) | TC: 44 (28%) | TT: 6 (3%) |
| Small vessel | T: 44 (16%) | C: 238 (84%) | CC: 102 (72%) | TC: 34 (24%) | TT: 5 (3%) |
| Large vessel | T: 41 (13%) | C: 273 (87%) | CC: 118 (75%) | TC: 37 (24%) | TT: 2 (3%) |
| Controls | T: 246 (17%) | C: 1168 (83%) | CC: 482 (68%) | TC: 204 (29%) | TT: 21 (3%) |
| rs12526453 | | | | | |
| Cases | G: 488 (34%) | C: 936 (66%) | CC: 303 (43%) | GC: 330 (46%) | GG: 79 (3%) |
| Cardioembolic | G: 92 (29%) | C: 222 (71%) | CC: 74 (47%) | GC: 74 (47%) | GG: 9 (3%) |
| Small vessel | G: 100 (35%) | C: 182 (65%) | CC: 62 (44%) | GC: 58 (41%) | GG: 21 (3%) |
| Large vessel | G: 108 (34%) | C: 206 (66%) | CC: 65 (41%) | GC: 76 (48%) | GG: 16 (3%) |
| Controls | G: 474 (34%) | C: 934 (66%) | CC: 302 (43%) | GC: 330 (47%) | GG: 72 (3%) |

Online-only Table 6b: Allele and genotype frequencies in the combined Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs6922269 | | | | | |
| Cases | A: 416 (29%) | G: 1008 (71%) | GG: 357 (50%) | AG: 294 (41%) | AA: 61 (3%) |
| Cardioembolic | A: 85 (27%) | G: 229 (73%) | GG: 87 (55%) | AG: 55 (35%) | AA: 15 (3%) |
| Small vessel | A: 96 (34%) | G: 186 (66%) | GG: 60 (43%) | AG: 66 (47%) | AA: 15 (3%) |
| Large vessel | A: 84 (27%) | G: 230 (73%) | GG: 83 (53%) | AG: 64 (41%) | AA: 10 (3%) |
| Controls | A: 406 (29%) | G: 1006 (71%) | GG: 352 (50%) | AG: 302 (43%) | AA: 52 (3%) |
| rs2048327 | | | | | |
| Cases | C: 508 (36%) | T: 914 (64%) | TT: 284 (40%) | CT: 346 (49%) | CC: 81 (3%) |
| Cardioembolic | C: 118 (38%) | T: 194 (62%) | TT: 59 (38%) | CT: 76 (49%) | CC: 21 (3%) |
| Small vessel | C: 97 (34%) | T: 185 (66%) | TT: 62 (44%) | CT: 61 (43%) | CC: 18 (3%) |
| Large vessel | C: 111 (35%) | T: 203 (65%) | TT: 65 (41%) | CT: 73 (46%) | CC: 19 (3%) |
| Controls | C: 484 (34%) | T: 926 (66%) | TT: 304 (43%) | CT: 318 (45%) | CC: 83 (3%) |
| rs3127599 | | | | | |
| Cases | T: 433 (31%) | C: 981 (69%) | CC: 342 (48%) | TC: 297 (42%) | TT: 68 (3%) |
| Cardioembolic | T: 97 (31%) | C: 215 (69%) | CC: 75 (48%) | TC: 65 (42%) | TT: 16 (3%) |
| Small vessel | T: 77 (28%) | C: 201 (72%) | CC: 74 (53%) | TC: 53 (38%) | TT: 12 (3%) |
| Large vessel | T: 102 (33%) | C: 210 (67%) | CC: 69 (44%) | TC: 72 (46%) | TT: 15 (3%) |
| Controls | T: 400 (28%) | C: 1014 (72%) | CC: 365 (52%) | TC: 284 (40%) | TT: 58 (3%) |
| rs7767084 | | | | | |
| Cases | C: 222 (16%) | T: 1202 (84%) | TT: 502 (71%) | CT: 198 (28%) | CC: 12 (3%) |
| Cardioembolic | C: 52 (17%) | T: 262 (83%) | TT: 110 (70%) | CT: 42 (27%) | CC: 5 (3%) |
| Small vessel | C: 49 (17%) | T: 233 (83%) | TT: 94 (67%) | CT: 45 (32%) | CC: 2 (3%) |
| Large vessel | C: 42 (13%) | T: 272 (87%) | TT: 115 (73%) | CT: 42 (27%) | CC: 0 (3%) |
| Controls | C: 237 (17%) | T: 1179 (83%) | TT: 491 (69%) | CT: 197 (28%) | CC: 20 (3%) |
| rs10755578 | | | | | |
| Cases | G: 667 (47%) | C: 755 (53%) | CC: 192 (27%) | GC: 371 (52%) | GG: 148 (3%) |
| Cardioembolic | G: 146 (47%) | C: 166 (53%) | CC: 42 (27%) | GC: 82 (53%) | GG: 32 (3%) |
| Small vessel | G: 133 (47%) | C: 149 (53%) | CC: 37 (26%) | GC: 75 (53%) | GG: 29 (3%) |
| Large vessel | G: 149 (47%) | C: 165 (53%) | CC: 39 (25%) | GC: 87 (55%) | GG: 31 (3%) |
| Controls | G: 653 (46%) | C: 763 (54%) | CC: 205 (29%) | GC: 353 (50%) | GG: 150 (3%) |

Online-only Table 6c: Allele and genotype frequencies in the combined Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs1333040 | | | | | |
| Cases | C: 577 (40%) | T: 849 (60%) | TT: 251 (35%) | CT: 347 (49%) | CC: 115 (3%) |
| Cardioembolic | C: 148 (47%) | T: 166 (53%) | TT: 44 (28%) | CT: 78 (50%) | CC: 35 (3%) |
| Small vessel | C: 127 (45%) | T: 155 (55%) | TT: 40 (28%) | CT: 75 (53%) | CC: 26 (3%) |
| Large vessel | C: 109 (35%) | T: 205 (65%) | TT: 65 (41%) | CT: 75 (48%) | CC: 17 (3%) |
| Controls | C: 539 (38%) | T: 873 (62%) | TT: 276 (39%) | CT: 321 (45%) | CC: 109 (3%) |
| rs4977574 | | | | | |
| Cases | G: 694 (49%) | A: 730 (51%) | AA: 189 (27%) | GA: 352 (49%) | GG: 171 (3%) |
| Cardioembolic | G: 132 (42%) | A: 182 (58%) | AA: 54 (34%) | GA: 74 (47%) | GG: 29 (3%) |
| Small vessel | G: 124 (44%) | A: 158 (56%) | AA: 42 (30%) | GA: 74 (52%) | GG: 25 (3%) |
| Large vessel | G: 166 (53%) | A: 148 (47%) | AA: 36 (23%) | GA: 76 (48%) | GG: 45 (3%) |
| Controls | G: 708 (50%) | A: 704 (50%) | AA: 182 (26%) | GA: 340 (48%) | GG: 184 (3%) |
| rs1333042 | | | | | |
| Cases | A: 704 (49%) | G: 720 (51%) | GG: 184 (26%) | AG: 352 (49%) | AA: 176 (3%) |
| Cardioembolic | A: 175 (56%) | G: 139 (44%) | GG: 31 (20%) | AG: 77 (49%) | AA: 49 (3%) |
| Small vessel | A: 151 (54%) | G: 131 (46%) | GG: 30 (21%) | AG: 71 (50%) | AA: 40 (3%) |
| Large vessel | A: 146 (46%) | G: 168 (54%) | GG: 45 (29%) | AG: 78 (50%) | AA: 34 (3%) |
| Controls | A: 677 (48%) | G: 737 (52%) | GG: 199 (28%) | AG: 339 (48%) | AA: 169 (3%) |
| rs2383207 | | | | | |
| Cases | A: 689 (48%) | G: 737 (52%) | GG: 193 (27%) | AG: 351 (49%) | AA: 169 (3%) |
| Cardioembolic | A: 171 (54%) | G: 143 (46%) | GG: 32 (20%) | AG: 79 (50%) | AA: 46 (3%) |
| Small vessel | A: 148 (52%) | G: 134 (48%) | GG: 33 (23%) | AG: 68 (48%) | AA: 40 (3%) |
| Large vessel | A: 142 (45%) | G: 172 (55%) | GG: 47 (30%) | AG: 78 (50%) | AA: 32 (3%) |
| Controls | A: 666 (47%) | G: 748 (53%) | GG: 206 (29%) | AG: 336 (48%) | AA: 165 (3%) |
| rs1746048 | | | | | |
| Cases | T: 187 (13%) | C: 1237 (87%) | CC: 537 (75%) | TC: 163 (23%) | TT: 12 (3%) |
| Cardioembolic | T: 41 (13%) | C: 273 (87%) | CC: 120 (76%) | TC: 33 (21%) | TT: 4 (3%) |
| Small vessel | T: 41 (15%) | C: 241 (85%) | CC: 104 (74%) | TC: 33 (23%) | TT: 4 (3%) |
| Large vessel | T: 32 (10%) | C: 282 (90%) | CC: 125 (80%) | TC: 32 (20%) | TT: 0 (3%) |
| Controls | T: 191 (13%) | C: 1225 (87%) | CC: 526 (74%) | TC: 173 (24%) | TT: 9 (3%) |

Online-only Table 6d: Allele and genotype frequencies in the combined Caucasian series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs2259816 | | | | | |
| Cases | T: 497 (35%) | G: 927 (65%) | GG: 301 (42%) | TG: 325 (46%) | TT: 86 (3%) |
| Cardioembolic | T: 116 (37%) | G: 198 (63%) | GG: 59 (38%) | TG: 80 (51%) | TT: 18 (3%) |
| Small vessel | T: 102 (36%) | G: 180 (64%) | GG: 58 (41%) | TG: 64 (45%) | TT: 19 (3%) |
| Large vessel | T: 108 (34%) | G: 206 (66%) | GG: 69 (44%) | TG: 68 (43%) | TT: 20 (3%) |
| Controls | T: 491 (35%) | G: 917 (65%) | GG: 300 (43%) | TG: 317 (45%) | TT: 87 (3%) |
| rs1048990 | | | | | |
| Cases | G: 208 (15%) | C: 1214 (85%) | CC: 508 (71%) | GC: 198 (28%) | GG: 5 (3%) |
| Cardioembolic | G: 50 (16%) | C: 264 (84%) | CC: 109 (69%) | GC: 46 (29%) | GG: 2 (3%) |
| Small vessel | G: 43 (15%) | C: 239 (85%) | CC: 99 (70%) | GC: 41 (29%) | GG: 1 (3%) |
| Large vessel | G: 39 (12%) | C: 275 (88%) | CC: 118 (75%) | GC: 39 (25%) | GG: 0 (3%) |
| Controls | G: 249 (18%) | C: 1153 (82%) | CC: 468 (67%) | GC: 217 (31%) | GG: 16 (3%) |
| rs17228212 | | | | | |
| Cases | C: 421 (30%) | T: 1003 (70%) | TT: 353 (50%) | CT: 297 (42%) | CC: 62 (3%) |
| Cardioembolic | C: 103 (33%) | T: 211 (67%) | TT: 71 (45%) | CT: 69 (44%) | CC: 17 (3%) |
| Small vessel | C: 92 (33%) | T: 190 (67%) | TT: 65 (46%) | CT: 60 (43%) | CC: 16 (3%) |
| Large vessel | C: 90 (29%) | T: 224 (71%) | TT: 81 (52%) | CT: 62 (39%) | CC: 14 (3%) |
| Controls | C: 414 (29%) | T: 998 (71%) | TT: 351 (50%) | CT: 296 (42%) | CC: 59 (3%) |
| rs1122608 | | | | | |
| Cases | T: 383 (27%) | G: 1041 (73%) | GG: 388 (54%) | TG: 265 (37%) | TT: 59 (3%) |
| Cardioembolic | T: 82 (26%) | G: 232 (74%) | GG: 85 (54%) | TG: 62 (39%) | TT: 10 (3%) |
| Small vessel | T: 75 (27%) | G: 207 (73%) | GG: 78 (55%) | TG: 51 (36%) | TT: 12 (3%) |
| Large vessel | T: 85 (27%) | G: 229 (73%) | GG: 83 (53%) | TG: 63 (40%) | TT: 11 (3%) |
| Controls | T: 352 (25%) | G: 1060 (75%) | GG: 403 (57%) | TG: 254 (36%) | TT: 49 (3%) |
| rs9982601 | | | | | |
| Cases | T: 156 (11%) | C: 1268 (89%) | CC: 569 (80%) | TC: 130 (18%) | TT: 13 (3%) |
| Cardioembolic | T: 35 (11%) | C: 279 (89%) | CC: 124 (79%) | TC: 31 (20%) | TT: 2 (3%) |
| Small vessel | T: 37 (13%) | C: 245 (87%) | CC: 107 (76%) | TC: 31 (22%) | TT: 3 (3%) |
| Large vessel | T: 38 (12%) | C: 276 (88%) | CC: 125 (80%) | TC: 26 (17%) | TT: 6 (3%) |
| Controls | T: 165 (12%) | C: 1251 (88%) | CC: 550 (78%) | TC: 151 (21%) | TT: 7 (3%) |

Online-only Table 7a: Allele and genotype frequencies in the ISGS African American series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs646776 | | | | | |
| Cases | C: 111 (33%) | T: 221 (67%) | TT: 78 (47%) | CT: 65 (39%) | CC: 23 (3%) |
| Cardioembolic | C: 18 (31%) | T: 40 (69%) | TT: 14 (48%) | CT: 12 (41%) | CC: 3 (3%) |
| Small vessel | C: 29 (32%) | T: 63 (68%) | TT: 24 (52%) | CT: 15 (33%) | CC: 7 (3%) |
| Large vessel | C: 20 (36%) | T: 36 (64%) | TT: 14 (50%) | CT: 8 (29%) | CC: 6 (3%) |
| Controls | C: 94 (40%) | T: 140 (60%) | TT: 44 (38%) | CT: 52 (44%) | CC: 21 (3%) |
| rs11206510 | | | | | |
| Cases | C: 36 (11%) | T: 296 (89%) | TT: 131 (79%) | CT: 34 (20%) | CC: 1 (3%) |
| Cardioembolic | C: 6 (10%) | T: 52 (90%) | TT: 23 (79%) | CT: 6 (21%) | CC: 0 (3%) |
| Small vessel | C: 10 (11%) | T: 82 (89%) | TT: 36 (78%) | CT: 10 (22%) | CC: 0 (3%) |
| Large vessel | C: 3 (5%) | T: 53 (95%) | TT: 25 (89%) | CT: 3 (11%) | CC: 0 (3%) |
| Controls | C: 33 (14%) | T: 201 (86%) | TT: 88 (75%) | CT: 25 (21%) | CC: 4 (3%) |
| rs6725887 | | | | | |
| Cases | C: 8 (2%) | T: 324 (98%) | TT: 158 (95%) | CT: 8 (5%) | CC: 0 (3%) |
| Cardioembolic | C: 2 (3%) | T: 56 (97%) | TT: 27 (93%) | CT: 2 (7%) | CC: 0 (3%) |
| Small vessel | C: 2 (2%) | T: 90 (98%) | TT: 44 (96%) | CT: 2 (4%) | CC: 0 (3%) |
| Large vessel | C: 2 (4%) | T: 54 (96%) | TT: 26 (93%) | CT: 2 (7%) | CC: 0 (3%) |
| Controls | C: 6 (3%) | T: 228 (97%) | TT: 112 (96%) | CT: 4 (3%) | CC: 1 (3%) |
| rs9818870 | | | | | |
| Cases | T: 34 (10%) | C: 298 (90%) | CC: 133 (80%) | TC: 32 (19%) | TT: 1 (3%) |
| Cardioembolic | T: 8 (14%) | C: 50 (86%) | CC: 22 (76%) | TC: 6 (21%) | TT: 1 (3%) |
| Small vessel | T: 10 (11%) | C: 82 (89%) | CC: 36 (78%) | TC: 10 (22%) | TT: 0 (3%) |
| Large vessel | T: 4 (7%) | C: 52 (93%) | CC: 24 (86%) | TC: 4 (14%) | TT: 0 (3%) |
| Controls | T: 23 (10%) | C: 211 (90%) | CC: 95 (81%) | TC: 21 (18%) | TT: 1 (3%) |
| rs12526453 | | | | | |
| Cases | G: 56 (17%) | C: 276 (83%) | CC: 113 (68%) | GC: 50 (30%) | GG: 3 (3%) |
| Cardioembolic | G: 8 (14%) | C: 50 (86%) | CC: 21 (72%) | GC: 8 (28%) | GG: 0 (3%) |
| Small vessel | G: 11 (12%) | C: 81 (88%) | CC: 36 (78%) | GC: 9 (20%) | GG: 1 (3%) |
| Large vessel | G: 9 (16%) | C: 47 (84%) | CC: 19 (68%) | GC: 9 (32%) | GG: 0 (3%) |
| Controls | G: 34 (15%) | C: 200 (85%) | CC: 84 (72%) | GC: 32 (27%) | GG: 1 (3%) |

Online-only Table 7b: Allele and genotype frequencies in the ISGS African American series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs6922269 | | | | | |
| Cases | A: 179 (54%) | G: 153 (46%) | GG: 36 (22%) | AG: 81 (49%) | AA: 49 (3%) |
| Cardioembolic | A: 28 (48%) | G: 30 (52%) | GG: 8 (28%) | AG: 14 (48%) | AA: 7 (3%) |
| Small vessel | A: 55 (60%) | G: 37 (40%) | GG: 8 (17%) | AG: 21 (46%) | AA: 17 (3%) |
| Large vessel | A: 24 (43%) | G: 32 (57%) | GG: 9 (32%) | AG: 14 (50%) | AA: 5 (3%) |
| Controls | A: 123 (53%) | G: 111 (47%) | GG: 24 (21%) | AG: 63 (54%) | AA: 30 (3%) |
| rs2048327 | | | | | |
| Cases | C: 26 (8%) | T: 306 (92%) | TT: 141 (85%) | CT: 24 (14%) | CC: 1 (3%) |
| Cardioembolic | C: 6 (10%) | T: 52 (90%) | TT: 23 (79%) | CT: 6 (21%) | CC: 0 (3%) |
| Small vessel | C: 5 (5%) | T: 87 (95%) | TT: 41 (89%) | CT: 5 (11%) | CC: 0 (3%) |
| Large vessel | C: 5 (9%) | T: 51 (91%) | TT: 24 (86%) | CT: 3 (11%) | CC: 1 (3%) |
| Controls | C: 19 (8%) | T: 215 (92%) | TT: 100 (85%) | CT: 15 (13%) | CC: 2 (3%) |
| rs3127599 | | | | | |
| Cases | T: 95 (29%) | C: 233 (71%) | CC: 81 (49%) | TC: 71 (43%) | TT: 12 (3%) |
| Cardioembolic | T: 18 (31%) | C: 40 (69%) | CC: 13 (45%) | TC: 14 (48%) | TT: 2 (3%) |
| Small vessel | T: 27 (30%) | C: 63 (70%) | CC: 21 (47%) | TC: 21 (47%) | TT: 3 (3%) |
| Large vessel | T: 24 (44%) | C: 30 (56%) | CC: 7 (26%) | TC: 16 (59%) | TT: 4 (3%) |
| Controls | T: 64 (27%) | C: 170 (73%) | CC: 63 (54%) | TC: 44 (38%) | TT: 10 (3%) |
| rs7767084 | | | | | |
| Cases | C: 8 (2%) | T: 324 (98%) | TT: 158 (95%) | CT: 8 (5%) | CC: 0 (3%) |
| Cardioembolic | C: 2 (3%) | T: 56 (97%) | TT: 27 (93%) | CT: 2 (7%) | CC: 0 (3%) |
| Small vessel | C: 0 (0%) | T: 92 (100%) | TT: 46 (100%) | CT: 0 (0%) | CC: 0 (3%) |
| Large vessel | C: 1 (2%) | T: 55 (98%) | TT: 27 (96%) | CT: 1 (4%) | CC: 0 (3%) |
| Controls | C: 7 (3%) | T: 227 (97%) | TT: 110 (94%) | CT: 7 (6%) | CC: 0 (3%) |
| rs10755578 | | | | | |
| Cases | G: 106 (32%) | C: 226 (68%) | CC: 75 (45%) | GC: 76 (46%) | GG: 15 (3%) |
| Cardioembolic | G: 21 (36%) | C: 37 (64%) | CC: 12 (41%) | GC: 13 (45%) | GG: 4 (3%) |
| Small vessel | G: 29 (32%) | C: 63 (68%) | CC: 20 (43%) | GC: 23 (50%) | GG: 3 (3%) |
| Large vessel | G: 24 (43%) | C: 32 (57%) | CC: 9 (32%) | GC: 14 (50%) | GG: 5 (3%) |
| Controls | G: 81 (35%) | C: 153 (65%) | CC: 51 (44%) | GC: 51 (44%) | GG: 15 (3%) |

Online-only Table 7c: Allele and genotype frequencies in the ISGS African American series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs1333040 | | | | | |
| Cases | C: 112 (34%) | T: 220 (66%) | TT: 79 (48%) | CT: 62 (37%) | CC: 25 (3%) |
| Cardioembolic | C: 17 (29%) | T: 41 (71%) | TT: 14 (48%) | CT: 13 (45%) | CC: 2 (3%) |
| Small vessel | C: 33 (36%) | T: 59 (64%) | TT: 20 (43%) | CT: 19 (41%) | CC: 7 (3%) |
| Large vessel | C: 18 (32%) | T: 38 (68%) | TT: 15 (54%) | CT: 8 (29%) | CC: 5 (3%) |
| Controls | C: 106 (45%) | T: 128 (55%) | TT: 38 (32%) | CT: 52 (44%) | CC: 27 (3%) |
| rs4977574 | | | | | |
| Cases | G: 73 (22%) | A: 259 (78%) | AA: 105 (63%) | GA: 49 (30%) | GG: 12 (3%) |
| Cardioembolic | G: 15 (26%) | A: 43 (74%) | AA: 15 (52%) | GA: 13 (45%) | GG: 1 (3%) |
| Small vessel | G: 19 (21%) | A: 73 (79%) | AA: 29 (63%) | GA: 15 (33%) | GG: 2 (3%) |
| Large vessel | G: 10 (18%) | A: 46 (82%) | AA: 20 (71%) | GA: 6 (21%) | GG: 2 (3%) |
| Controls | G: 43 (18%) | A: 191 (82%) | AA: 78 (67%) | GA: 35 (30%) | GG: 4 (3%) |
| rs1333042 | | | | | |
| Cases | A: 21 (6%) | G: 311 (94%) | GG: 145 (87%) | AG: 21 (13%) | AA: 0 (3%) |
| Cardioembolic | A: 2 (3%) | G: 56 (97%) | GG: 27 (93%) | AG: 2 (7%) | AA: 0 (3%) |
| Small vessel | A: 3 (3%) | G: 89 (97%) | GG: 43 (93%) | AG: 3 (7%) | AA: 0 (3%) |
| Large vessel | A: 5 (9%) | G: 51 (91%) | GG: 23 (82%) | AG: 5 (18%) | AA: 0 (3%) |
| Controls | A: 27 (12%) | G: 207 (88%) | GG: 93 (79%) | AG: 21 (18%) | AA: 3 (3%) |
| rs2383207 | | | | | |
| Cases | A: 21 (6%) | G: 311 (94%) | GG: 145 (87%) | AG: 21 (13%) | AA: 0 (3%) |
| Cardioembolic | A: 2 (3%) | G: 56 (97%) | GG: 27 (93%) | AG: 2 (7%) | AA: 0 (3%) |
| Small vessel | A: 3 (3%) | G: 89 (97%) | GG: 43 (93%) | AG: 3 (7%) | AA: 0 (3%) |
| Large vessel | A: 5 (9%) | G: 51 (91%) | GG: 23 (82%) | AG: 5 (18%) | AA: 0 (3%) |
| Controls | A: 27 (12%) | G: 207 (88%) | GG: 93 (79%) | AG: 21 (18%) | AA: 3 (3%) |
| rs1746048 | | | | | |
| Cases | T: 155 (47%) | C: 177 (53%) | CC: 48 (29%) | TC: 81 (49%) | TT: 37 (3%) |
| Cardioembolic | T: 32 (55%) | C: 26 (45%) | CC: 5 (17%) | TC: 16 (55%) | TT: 8 (3%) |
| Small vessel | T: 47 (51%) | C: 45 (49%) | CC: 10 (22%) | TC: 25 (54%) | TT: 11 (3%) |
| Large vessel | T: 23 (41%) | C: 33 (59%) | CC: 11 (39%) | TC: 11 (39%) | TT: 6 (3%) |
| Controls | T: 104 (44%) | C: 130 (56%) | CC: 39 (33%) | TC: 52 (44%) | TT: 26 (3%) |

Online-only Table 7d: Allele and genotype frequencies in the ISGS African American series

| SNP | Minor allele count and proportion | Major allele count and proportion | Genotype 1 count and proportion | Genotype 2 count and proportion | Genotype 3 count and proportion |
|---------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| rs2259816 | | | | | |
| Cases | T: 38 (11%) | G: 294 (89%) | GG: 130 (78%) | TG: 34 (20%) | TT: 2 (3%) |
| Cardioembolic | T: 7 (12%) | G: 51 (88%) | GG: 22 (76%) | TG: 7 (24%) | TT: 0 (3%) |
| Small vessel | T: 5 (5%) | G: 87 (95%) | GG: 41 (89%) | TG: 5 (11%) | TT: 0 (3%) |
| Large vessel | T: 5 (9%) | G: 51 (91%) | GG: 23 (82%) | TG: 5 (18%) | TT: 0 (3%) |
| Controls | T: 36 (15%) | G: 198 (85%) | GG: 85 (73%) | TG: 28 (24%) | TT: 4 (3%) |
| rs1048990 | | | | | |
| Cases | G: 7 (2%) | C: 325 (98%) | CC: 159 (96%) | GC: 7 (4%) | GG: 0 (3%) |
| Cardioembolic | G: 0 (0%) | C: 58 (100%) | CC: 29 (100%) | GC: 0 (0%) | GG: 0 (3%) |
| Small vessel | G: 2 (2%) | C: 90 (98%) | CC: 44 (96%) | GC: 2 (4%) | GG: 0 (3%) |
| Large vessel | G: 2 (4%) | C: 54 (96%) | CC: 26 (93%) | GC: 2 (7%) | GG: 0 (3%) |
| Controls | G: 13 (6%) | C: 221 (94%) | CC: 105 (90%) | GC: 11 (9%) | GG: 1 (3%) |
| rs17228212 | | | | | |
| Cases | C: 48 (14%) | T: 284 (86%) | TT: 121 (73%) | CT: 42 (25%) | CC: 3 (3%) |
| Cardioembolic | C: 9 (16%) | T: 49 (84%) | TT: 21 (72%) | CT: 7 (24%) | CC: 1 (3%) |
| Small vessel | C: 10 (11%) | T: 82 (89%) | TT: 36 (78%) | CT: 10 (22%) | CC: 0 (3%) |
| Large vessel | C: 9 (16%) | T: 47 (84%) | TT: 19 (68%) | CT: 9 (32%) | CC: 0 (3%) |
| Controls | C: 29 (12%) | T: 205 (88%) | TT: 89 (76%) | CT: 27 (23%) | CC: 1 (3%) |
| rs1122608 | | | | | |
| Cases | T: 12 (4%) | G: 320 (96%) | GG: 154 (93%) | TG: 12 (7%) | TT: 0 (3%) |
| Cardioembolic | T: 3 (5%) | G: 55 (95%) | GG: 26 (90%) | TG: 3 (10%) | TT: 0 (3%) |
| Small vessel | T: 2 (2%) | G: 90 (98%) | GG: 44 (96%) | TG: 2 (4%) | TT: 0 (3%) |
| Large vessel | T: 3 (5%) | G: 53 (95%) | GG: 25 (89%) | TG: 3 (11%) | TT: 0 (3%) |
| Controls | T: 11 (5%) | G: 223 (95%) | GG: 106 (91%) | TG: 11 (9%) | TT: 0 (3%) |
| rs9982601 | | | | | |
| Cases | T: 75 (23%) | C: 257 (77%) | CC: 100 (60%) | TC: 57 (34%) | TT: 9 (3%) |
| Cardioembolic | T: 16 (28%) | C: 42 (72%) | CC: 14 (48%) | TC: 14 (48%) | TT: 1 (3%) |
| Small vessel | T: 15 (16%) | C: 77 (84%) | CC: 31 (67%) | TC: 15 (33%) | TT: 0 (3%) |
| Large vessel | T: 8 (14%) | C: 48 (86%) | CC: 21 (75%) | TC: 6 (21%) | TT: 1 (3%) |
| Controls | T: 71 (30%) | C: 163 (70%) | CC: 56 (48%) | TC: 51 (44%) | TT: 10 (3%) |

Online-only Table 8a: Association of haplotypes of rs2048327-rs3127599-rs7767084-rs10755578 with cardioembolic stroke

| Haplotype (rs2048327-rs3127599-rs7767084-rs10755578) | Haplotype frequency | | P-value for association |
|--|-------------------------------|----------|-------------------------|
| | Cardioembolic stroke patients | Controls | |
| Familial Caucasian series (34 patients, 374 controls) | | | 0.66 |
| C-C-T-G | 0.0% | 3.8% | |
| T-T-T-G | 7.8% | 11.7% | |
| C-C-C-G | 16.1% | 16.7% | |
| C-T-T-G | 15.8% | 13.5% | |
| C-C-T-C | 3.4% | 2.2% | |
| T-C-T-C | 54.0% | 49.7% | |
| ISGS Caucasian series (123 patients, 334 controls) | | | 0.80 |
| T-C-T-C | 46.9% | 51.2% | |
| T-T-T-G | 10.8% | 13.4% | |
| C-C-C-G | 14.9% | 14.3% | |
| C-C-T-C | 1.0% | 1.6% | |
| C-C-T-G | 3.0% | 2.2% | |
| T-T-T-C | 2.4% | 2.0% | |
| C-T-T-G | 19.3% | 13.8% | |
| Combined Caucasian series (157 patients, 708 controls) | | | 0.56 |
| T-T-T-G | 10.1% | 12.5% | |
| T-C-T-C | 48.4% | 50.3% | |
| C-C-T-G | 2.3% | 3.0% | |
| C-C-C-G | 15.1% | 15.6% | |
| C-C-T-C | 1.5% | 2.0% | |
| T-T-T-C | 2.3% | 5.9% | |
| C-T-T-G | 18.5% | 13.7% | |

- P-values result from score tests of association. Haplotypes with a frequency of less than 1% were not considered. Adjustments were made for age and gender (familial Caucasian series), age, gender, atrial fibrillation, coronary artery disease, diabetes, hypertension, and current smoking (ISGS Caucasian series), and age, gender, and series (combined Caucasian series).
ISGS=Ischemic Stroke Genetics Study.

Online-only Table 8b: Associations of haplotypes of rs2048327-rs3127599-rs7767084-rs10755578 with large vessel stroke

| Haplotype (rs2048327-rs3127599-rs7767084-rs10755578) | Haplotype frequency | | P-value for association |
|--|------------------------------|----------|-------------------------|
| | Large vessel stroke patients | Controls | |
| Familial Caucasian series (67 patients, 374 controls) | | | 0.65 |
| C-C-T-G | 2.4% | 3.8% | |
| C-C-C-G | 13.4% | 16.7% | |
| C-C-T-C | 2.6% | 2.2% | |
| T-C-T-C | 51.1% | 49.7% | |
| C-T-T-G | 14.4% | 13.5% | |
| T-T-T-G | 15.3% | 11.7% | |
| ISGS Caucasian series (90 patients, 334 controls) | | | 0.47 |
| T-C-T-C | 48.3% | 51.2% | |
| C-C-T-C | 1.3% | 1.6% | |
| T-T-T-C | 1.6% | 2.0% | |
| C-C-C-G | 13.2% | 14.3% | |
| T-T-T-G | 12.9% | 13.4% | |
| C-C-T-G | 2.8% | 2.2% | |
| C-T-T-G | 19.8% | 13.8% | |
| Combined Caucasian series (157 patients, 708 controls) | | | 0.24 |
| C-C-C-G | 13.4% | 15.6% | |
| T-C-T-C | 49.4% | 50.3% | |
| T-T-T-C | 1.3% | 1.5% | |
| C-C-T-G | 2.6% | 3.0% | |
| C-C-T-C | 1.8% | 2.0% | |
| T-T-T-G | 13.9% | 12.5% | |
| C-T-T-G | 17.5% | 13.7% | |

- P-values result from score tests of association. Haplotypes with a frequency of less than 1% were not considered. Adjustments were made for age and gender (familial Caucasian series), age, gender, atrial fibrillation, coronary artery disease, diabetes, hypertension, and current smoking (ISGS Caucasian series), and age, gender, and series (combined Caucasian series).
ISGS=Ischemic Stroke Genetics Study.

Online-only Table 8c: Associations of haplotypes of rs2048327-rs3127599-rs7767084-rs10755578 with small vessel stroke

| Haplotype (rs2048327-rs3127599-rs7767084-rs10755578) | Haplotype frequency | | P-value for association |
|--|------------------------------|----------|-------------------------|
| | Small vessel stroke patients | Controls | |
| Familial Caucasian series (81 patients, 374 controls) | | | 0.18 |
| C-T-T-G | 7.1% | 13.5% | |
| C-C-T-C | 1.4% | 2.2% | |
| C-C-T-G | 2.7% | 3.8% | |
| C-C-C-G | 18.5% | 16.7% | |
| T-T-T-G | 14.4% | 11.7% | |
| T-C-T-C | 55.4% | 49.7% | |
| ISGS Caucasian series (60 patients, 334 controls) | | | 0.24 |
| T-C-T-C | 43.9% | 51.2% | |
| C-C-T-C | 1.9% | 1.6% | |
| C-C-C-G | 15.0% | 14.3% | |
| T-T-T-C | 1.8% | 2.0% | |
| T-T-T-G | 14.4% | 13.4% | |
| C-T-T-G | 19.7% | 13.8% | |
| C-C-T-G | 4.2% | 2.2% | |
| Combined Caucasian series (141 patients, 708 controls) | | | 0.74 |
| T-T-T-C | 0.7% | 1.5% | |
| C-C-T-C | 1.6% | 2.0% | |
| C-T-T-G | 12.5% | 13.7% | |
| T-C-T-C | 50.1% | 50.3% | |
| C-C-T-G | 3.3% | 3.0% | |
| C-C-C-G | 17.0% | 15.6% | |
| T-T-T-G | 14.4% | 12.5% | |

- P-values result from score tests of association. Haplotypes with a frequency of less than 1% were not considered. Adjustments were made for age and gender (familial Caucasian series), age, gender, atrial fibrillation, coronary artery disease, diabetes, hypertension, and current smoking (ISGS Caucasian series), and age, gender, and series (combined Caucasian series).
ISGS=Ischemic Stroke Genetics Study.