

**Supplementary Table 3.** AORs for ischemic stroke associated with microRNA machinery gene genotypes, stratified by clinical factors

| Variable                        | DICER1 rs13078<br>AA vs. AT+TT<br>AOR (95% CI)* | P     | DICER1 rs3742330<br>AA vs. GG<br>AOR (95% CI)* | P     | DROSHA rs6877842<br>CC vs. CG+GG<br>AOR (95% CI)* | P     | DROSHA rs10719<br>TT vs. CC<br>AOR (95% CI)* | P     | RAN rs14035<br>CC vs. CT<br>AOR (95% CI)* | P     | XPO5 rs11077<br>AA vs. AC+CC<br>AOR (95% CI)* | P     |
|---------------------------------|---|-------|--|-------|---|-------|--|-------|---|-------|---|-------|
| <b>Age (yr)</b>                 |   |       |  |       |   |       |  |       |   |       |   |       |
| <63                             | 1.595 (0.783–3.251)                             | 0.199 | 1.843 (1.039–3.267)                            | 0.037 | 1.457 (0.676–3.140)                               | 0.337 | 1.745 (0.748–4.072)                          | 0.198 | 0.677 (0.447–1.025)                       | 0.065 | 0.858 (0.517–1.424)                           | 0.553 |
| ≥63                             | 0.720 (0.407–1.273)                             | 0.258 | 1.170 (0.703–1.946)                            | 0.546 | 0.479 (0.231–0.991)                               | 0.047 | 2.042 (0.838–4.978)                          | 0.116 | 0.934 (0.633–1.379)                       | 0.732 | 0.540 (0.333–0.877)                           | 0.013 |
| <b>Sex</b>                      |   |       |  |       |   |       |  |       |   |       |   |       |
| Male                            | 1.523 (0.764–3.034)                             | 0.232 | 1.462 (0.795–2.691)                            | 0.222 | 1.092 (0.462–2.581)                               | 0.842 | 1.695 (0.632–4.546)                          | 0.295 | 0.767 (0.494–1.191)                       | 0.238 | 0.616 (0.365–1.040)                           | 0.993 |
| Female                          | 0.759 (0.428–1.347)                             | 0.347 | 1.511 (0.929–2.457)                            | 0.096 | 0.720 (0.375–1.380)                               | 0.322 | 2.040 (0.936–4.449)                          | 0.073 | 0.831 (0.571–1.209)                       | 0.333 | 0.707 (0.441–1.133)                           | 0.149 |
| <b>Hypertension</b>             |   |       |  |       |   |       |  |       |   |       |   |       |
| No                              | 1.353 (0.728–2.516)                             | 0.339 | 1.478 (0.853–2.560)                            | 0.163 | 0.823 (0.386–1.756)                               | 0.615 | 1.967 (0.840–4.607)                          | 0.119 | 0.817 (0.543–1.228)                       | 0.330 | 0.709 (0.431–1.165)                           | 0.995 |
| Yes                             | 0.705 (0.387–1.284)                             | 0.253 | 1.484 (0.880–2.502)                            | 0.138 | 0.754 (0.377–1.510)                               | 0.426 | 1.995 (0.830–4.796)                          | 0.123 | 0.784 (0.529–1.162)                       | 0.225 | 0.623 (0.384–1.009)                           | 0.054 |
| <b>Diabetes mellitus</b>        |   |       |  |       |   |       |  |       |   |       |   |       |
| No                              | 1.061 (0.654–1.722)                             | 0.811 | 1.557 (1.024–2.368)                            | 0.039 | 0.840 (0.482–1.464)                               | 0.539 | 1.770 (0.925–3.385)                          | 0.085 | 0.770 (0.563–1.053)                       | 0.102 | 0.700 (0.476–1.023)                           | 0.065 |
| Yes                             | 0.696 (0.264–1.832)                             | 0.463 | 1.247 (0.514–3.027)                            | 0.625 | 0.534 (0.146–1.947)                               | 0.342 | 3.509 (0.417–29.554)                         | 0.248 | 0.941 (0.481–1.841)                       | 0.860 | 0.540 (0.237–1.228)                           | 0.141 |
| <b>Hyperlipidemia</b>           |   |       |  |       |   |       |  |       |   |       |   |       |
| No                              | 0.943 (0.579–1.536)                             | 0.815 | 1.221 (0.785–1.897)                            | 0.376 | 0.697 (0.374–1.298)                               | 0.255 | 2.642 (1.301–5.363)                          | 0.007 | 0.972 (0.699–1.352)                       | 0.865 | 0.647 (0.428–0.978)                           | 0.039 |
| Yes                             | 1.120 (0.417–3.006)                             | 0.822 | 2.334 (1.074–5.075)                            | 0.032 | 1.040 (0.407–2.655)                               | 0.936 | 0.813 (0.238–2.780)                          | 0.741 | 0.486 (0.278–0.849)                       | 0.011 | 0.724 (0.382–1.376)                           | 0.324 |
| <b>Smoker</b>                   |   |       |  |       |   |       |  |       |   |       |   |       |
| No                              | 0.872 (0.500–1.521)                             | 0.629 | 1.566 (0.987–2.485)                            | 0.057 | 0.674 (0.362–1.254)                               | 0.213 | 2.522 (1.196–5.323)                          | 0.015 | 0.775 (0.546–1.101)                       | 0.155 | 0.584 (0.371–0.919)                           | 0.020 |
| Yes                             | 1.218 (0.595–2.494)                             | 0.590 | 1.337 (0.681–2.628)                            | 0.399 | 1.099 (0.430–2.805)                               | 0.844 | 1.115 (0.382–3.254)                          | 0.842 | 0.817 (0.504–1.326)                       | 0.413 | 0.802 (0.462–1.390)                           | 0.431 |
| <b>Folate<sup>†</sup></b>       |   |       |  |       |   |       |  |       |   |       |   |       |
| >3.55 nmol/L                    | 1.160 (0.720–1.871)                             | 0.542 | 1.578 (1.046–2.381)                            | 0.030 | 0.772 (0.445–1.342)                               | 0.359 | 2.051 (1.064–3.956)                          | 0.032 | 0.802 (0.589–1.090)                       | 0.159 | 0.663 (0.453–0.971)                           | 0.035 |
| ≤3.55 nmol/L                    | 0.816 (0.205–3.239)                             | 0.772 | 0.751 (0.212–2.659)                            | 0.657 | 0.681 (0.117–3.955)                               | 0.669 | 1.999 (0.365–10.943)                         | 0.425 | 1.210 (0.485–3.021)                       | 0.683 | 0.551 (0.194–1.564)                           | 0.263 |
| <b>Homocysteine<sup>†</sup></b> |   |       |  |       |   |       |  |       |   |       |   |       |
| <13.5 μmol/L                    | 1.177 (0.721–1.919)                             | 0.515 | 1.422 (0.938–2.155)                            | 0.097 | 0.867 (0.503–1.496)                               | 0.609 | 2.356 (1.245–4.457)                          | 0.008 | 0.780 (0.574–1.061)                       | 0.113 | 0.714 (0.489–1.044)                           | 0.082 |
| ≥13.5 μmol/L                    | 0.579 (0.194–1.723)                             | 0.326 | 1.375 (0.501–3.773)                            | 0.536 | 0.431 (0.090–2.077)                               | 0.294 | 0.378 (0.042–3.424)                          | 0.387 | 1.002 (0.466–2.155)                       | 0.996 | 0.458 (0.186–1.128)                           | 0.090 |

AOR, adjusted odds ratio; RAN, Ran GTPase; XPO5, exportin 5; CI, confidence interval.

\*Odds ratios adjusted for age, sex, hypertension, diabetes mellitus, hyperlipidemia, and smoking status; †3.55 nmol/L corresponds to the lowest 15% of folate values in the sample; †13.5 μmol/L corresponds to the highest 15% of homocysteine values in the sample.