Supplementary Table 1: The relationship between the SNPs and the risk of MPA in in different ethnicity groups in Guangxi in different genetic models

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| --- | --- | --- | --- | --- |
|  **SNP** | **Models** | **Genotype****/Allele** | **Ethnicity=Han** | **Ethnicity =Non-Han** |
| Control | Case | OR (95% CI) | *P*‑value |  | Control Case |  | OR (95% CI) | *P*‑value |
| rs2304256 | Allele | A | 264 | 198 | 0.97(0.72-1.3) | 0.84 |  | 91 | 128 | 0.86(0.56-1.32) | 0.48 |
|  | C | 176 | 128 | 63 | 76 |
| Codominant | AA | 75 | 60 | 1.00 | 0.53 | 28 | 38 | 1.00 | 0.45 |
| CA | 114 | 78 | 0.87 (0.55-1.39) | 35 | 52 | 0.88 (0.44-1.76) |  |
| CC | 31 | 25 | 1.25 (0.64-2.46) | 14 | 12 | 0.54 (0.20-1.43) |  |
| Dominant | AA | 75 | 60 | 1.00 | 0.8 | 28 | 38 | 1.00 | 0.47 |
| CA-CC | 145 | 103 | 0.94 (0.60-1.47) | 49 | 64 | 0.79 (0.41-1.52) |  |
| Recessive | AA-CA | 189 | 138 | 1.00 | 0.33 | 63 | 90 | 1.00 | 0.23 |
| CC | 31 | 25 | 1.36 (0.73-2.52) | 14 | 12 | 0.58 (0.24-1.41) |  |
| Overdominant | AA-CC | 106 | 85 | 1.00 | 0.36 | 42 | 50 | 1.00 | 0.87 |
| CA | 114 | 78 | 0.82 (0.54-1.26) | 35 | 52 | 1.06 (0.56-1.98) |  |
| rs280519 | Allele | G | 291 | 216 | 0.99(0.74-1.35) | 0.97 | 105 | 139 | 1.00(0.64-1.57) | 0.99 |
|  |  | A | 149 | 110 | 49 | 65 |
| Codominant | GG | 93 | 74 | 1.00 | 0.32 | 34 | 45 | 1.00 | 0.82 |
|  | AG | 105 | 68 | 0.82 (0.52-1.30) |  | 37 | 49 | 0.82 (0.42-1.59) |  |
|  | AA | 22 | 21 | 1.41 (0.69-2.90) |  | 6 | 8 | 0.80 (0.23-2.71) |  |
| Dominant | GG | 93 | 74 | 1.00 | 0.69 | 34 | 45 | 1.00 | 0.54 |
|  | AG-AA | 127 | 89 | 0.92 (0.60-1.41) |  | 43 | 57 | 0.82 (0.43-1.55) |  |
| Recessive | GG-AG | 198 | 142 | 1.00 | 0.21 | 71 | 94 | 1.00 | 0.84 |
|  | AA | 22 | 21 | 1.55 (0.78-3.08) |  | 6 | 8 | 0.89 (0.27-2.85) |  |
| Overdominant | GG-AA | 115 | 95 | 1.00 | 0.23 | 40 | 53 | 1.00 | 0.61 |
|  | AG | 105 | 68 | 0.77 (0.50-1.18) |  | 37 | 49 | 0.85 (0.45-1.60) |  |
| rs12720270 | Allele | A | 251 | 188 | 0.98(0.73-1.30) | 0.86 | 85 | 117 | 0.92(0.60-1.40) | 0.68 |
|  |  | G | 189 | 138 | 69 | 87 |
| Codominant | AA | 68 | 53 | 1.00 | 0.7 | 23 | 33 | 1.00 | 0.48 |
|  | GA | 115 | 82 | 0.92 (0.57-1.49) |  | 39 | 51 | 0.66 (0.32-1.38) |  |
|  | GG | 37 | 28 | 1.20 (0.62-2.29) |  | 15 | 18 | 0.64 (0.25-1.62) |  |
| Dominant | AA | 68 | 53 | 1.00 | 0.94 | 23 | 33 | 1.00 | 0.23 |
|  | GA-GG | 152 | 110 | 0.98 (0.62-1.55) |  | 54 | 69 | 0.65 (0.33-1.31) |  |
| Recessive | AA-GA | 183 | 135 | 1.00 | 0.44 | 62 | 84 | 1.00 | 0.64 |
|  | GG | 37 | 28 | 1.26 (0.70-2.24) |  | 15 | 18 | 0.82 (0.36-1.85) |  |
| Overdominant | AA-GG | 105 | 81 | 1.00 | 0.52 | 38 | 51 | 1.00 | 0.45 |
|  | GA | 115 | 82 | 0.87 (0.57-1.33) |  | 39 | 51 | 0.78 (0.41-1.48) |  |

NOTE:MPA: microscopic polyangiitis; SNP: single nucleotide polymorphism; OR: odds ratio; CI: confidence interval; The *p*-value, OR, and 95% CI were derived from a logistic regression model adjusted for age and ethnicity; \* denotes statistical significance (*p*<0.05).