**Table S1** Overall, modified and subgroup outcomes for VEGF1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |   | Test of association | Test of heterogeneity |  |   | Test of association | Test of heterogeneity |
|  | n | OR | 95% CI | Pa | Phet | I2 (%) | Analysis model |  | n | OR | 95% CI | Pa | Phet | I2 (%) | Analysis model |
|   | Pre-outlier |  | Post-outlier |
| **Overall**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 10 | 1.24 | 0.90-1.71 | 0.19 | 0.008 | 60 | Random |  | 9 | **1.41** | **1.14-1.75** | **0.002\*** | 0.17 | 31 | Fixed |
| *var* | 10 | 0.81 | 0.56-1.16 | 0.25 | 0.001 | 67 | Random |  | 7 | **0.77** | **0.60-0.99** | **0.04** | 0.14 | 37 | Fixed |
| *het* | 10 | 1.01 | 0.72-1.40 | 0.98 | 0.0002 | 72 | Random |  | 7 | 1.17 | 0.95-1.43 | 0.14 | 0.46 | 0 | Fixed |
| **HWC** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 7 | 1.19 | 0.79-1.78 | 0.40 | 0.01 | 63 | Random |  | 6 | **1.39** | **1.07-1.81** | **0.02** | 0.23 | 28 | Fixed |
| *var* | 7 | 0.72 | 0.46-1.15 | 0.17 | 0.003 | 70 | Random |  | 5 | 0.75 | 0.56-1.01 | 0.06 | 0.11 | 47 | Fixed |
| *het* | 7 | 1.17 | 0.95-1.43 | 0.14 | 0.46 | 0 | Fixed |  | --- | --- | --- | --- | --- | --- | --- |
| **Indian** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 7 | **1.44** | **1.13-1.84** | **0.004\*** | 0.16 | 35 | Fixed |  | --- | --- | --- | --- | --- | --- | --- |
| *var* | 7 | 0.82 | 0.51-1.31 | 0.41 | 0.002 | 71 | Random |  | 5 | **0.61** | **0.45-0.82** | **0.001\*** | 0.16 | 39 | Fixed |
| *het* | 7 | 0.93 | 0.59-1.47 | 0.76 | 0.0001 | 78 | Random |  | 5 | 1.25 | 0.97-1.61 | 0.09 | 0.17 | 37 | Fixed |
| **Caucasian** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 3 | 1.00 | 0.49-2.03 | 1.00 | 0.01 | 77 | Random |  | 2 | 1.32 | 0.86-2.03 | 0.20 | 0.14 | 55 | Fixed |
| *var* | 3 | 0.77 | 0.40-1.48 | 0.44 | 0.05 | 67 | Random |  | 2 | 1.06 | 0.72-1.56 | 0.78 | 0.81 | 0 | Fixed |
| *het* | 3 | 1.21 | 0.90-1.63 | 0.21 | 0.40 | 0 | Fixed |  | --- | --- | --- | --- | --- | --- | --- |
| **AR** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 7 | 1.22 | 0.95-1.57 | 0.12 | 0.32 | 14 | Fixed |  | --- | --- | --- | --- | --- | --- | --- |
| *var* | 7 | 0.98 | 0.53-1.15 | 0.21 | 0.03 | 56 | Random |  | 6 | 0.90 | 0.69-1.16 | 0.41 | 0.13 | 41 | Fixed |
| *het* | 7 | 1.05 | 0.72-1.52 | 0.80 | 0.007 | 66 | Random |  | 6 | 1.18 | 0.94-1.49 | 0.16 | 0.21 | 29 | Fixed |
| **CR** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 3 | 1.34 | 0.52-3.42 | 0.54 | 0.0004 | 87 | Random |  | 2 | **2.10** | **1.36-3.24** | **0.0009\*** | 0.50 | 0 | Fixed |
| *var* | 3 | 0.91 | 0.37-2.25 | 0.83 | 0.001 | 85 | Random |  | 2 | 1.40 | 0.91-2.15 | 0.13 | 0.27 | 17 | Fixed |
| *het* | 3 | 0.91 | 0.42-1.96 | 0.81 | 0.0007 | 86 | Random |  | 2 | 1.34 | 0.95-1.89 | 0.10 | 0.38 | 0 | Fixed |
|   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |

*VEGF*: vascular endothelial growth factor gene; VEGF1: rs699947+rs144854329; HWC: Hardy-Weinberg Compliant; *wt*: wild-type; *var*: variant; *het*: heterozygous; n: number of studies; OR: odds ratio; CI: confidence interval; Pa: P-value for association; Phet: P-value for heterogeneity; I2: measure of variability; values in bold indicate significant associations; \* survived the Bonferroni correction

**Table S2** Overall, modified and subgroup outcomes for VEGF2 and VEGF3

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |   | Test of association | Test of heterogeneity |  |   | Test of association | Test of heterogeneity |
|  | n | OR | 95% CI | Pa | Phet | I2 (%) | Analysis model |  | n | OR | 95% CI | Pa | Phet | I2 (%) | Analysis model |
|   | Pre-outlier |  | Post-outlier |
| VEGF2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Overall**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 5 | **1.48** | **1.01-2.15** | **0.04** | 0.09 | 51 | Random |  | 4 | **1.58** | **1.19-2.09** | **0.001\*** | 0.12 | 49 | Fixed |
| *var* | 5 | 0.95 | 0.45-1.97 | 0.88 | 0.001 | 78 | Random |  | 4 | 0.75 | 0.53-1.07 | 0.12 | 0.12 | 49 | Fixed |
| *het* | 5 | 0.83 | 0.65-1.06 | 0.14 | 0.24 | 28 | Fixed |  | --- | --- | --- | --- | --- | --- | --- |
| **HWC** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 3 | **1.39** | **1.01-1.91** | **0.04** | 0.24 | 30 | Fixed |  | --- | --- | --- | --- | --- | --- | --- |
| *var* | 3 | 0.59 | 0.27-1.29 | 0.19 | 0.08 | 66 | Random |  | 2 | 0.85 | 0.53-1.36 | 0.49 | 0.69 | 0 | Fixed |
| *het* | 3 | 0.92 | 0.68-1.25 | 0.61 | 0.87 | 0 | Fixed |  | --- | --- | --- | --- | --- | --- | --- |
| **Indian** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 3 | 1.36 | 0.72-2.58 | 0.34 | 0.04 | 68 | Random |  | 2 | 0.99 | 0.63-1.55 | 0.97 | 0.72 | 0 | Fixed |
| *var* | 3 | 1.46 | 0.65-3.31 | 0.36 | 0.01 | 77 | Random |  | 2 | 0.96 | 0.52-1.47 | 0.84 | 0.81 | 0 | Fixed |
| *het* | 3 | 0.82 | 0.48-1.42 | 0.48 | 0.07 | 63 | Random |  | 2 | 1.07 | 0.72-1.61 | 0.73 | 0.75 | 0 | Fixed |
| **Caucasian** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *wt* | 2 | **1.55** | **1.06-2.28** | **0.02** | 0.19 | 42 | Fixed |  | --- | --- | --- | --- | --- | --- | --- |
| *var* | 2 | 0.41 | 0.11-1.56 | 0.19 | 0.07 | 69 | Random |  | --- | --- | --- | --- | --- | --- | --- |
| *het* | 2 | 0.87 | 0.59-1.28 | 0.48 | 0.48 | 0 | Fixed |  | --- | --- | --- | --- | --- | --- | --- |
| VEGF3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Homozygous | 3 | 1.02 | 0.36-2.90 | 0.97 | 0.02 | 76 | Random |  | 2 | 0.61 | 0.32-1.13 | 0.12 | 0.98 | 0 | Fixed |
| Recessive | 3 | 0.99 | 0.44-2.25 | 0.98 | 0.04 | 68 | Random |  | 2 | 0.64 | 0.36-1.14 | 0.13 | 0.98 | 0 | Fixed |
| Dominant | 3 | 0.93 | 0.47-1.83 | 0.83 | 0.006 | 81 | Random |  | 2 | **0.66** | **0.47-0.92** | **0.01** | 0.33 | 0 | Fixed |
| Codominant | 3 | 0.92 | 0.50-1.68 | 0.78 | 0.0007 | 88 | Random |  | 2 | **0.69** | **0.53-0.91** | **0.008\*** | 0.36 | 0 | Fixed |
|   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |

 *VEGF*: *vascular endothelial growth factor* gene; VEGF2: rs1570360; VEGF3: rs3025039; HWC: Hardy-Weinberg Compliant; *wt*: wild-type; *var*: variant; *het*: heterozygous; n: number of studies; OR: odds ratio; CI: confidence interval; Pa: P*-*value for association; Phet: P-value for heterogeneity; I2: measure of variability; values in bold indicate significant associations; \* significant comparisons that survived the Bonferroni correction