**S4 Table.** Effect of Conscientiousness personality dimension on cumulative incidence (%) of major adverse cardiac events (MACE) by brain derived neurotrophic factor (BDNF) val66met polymorphism.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Event | Patients group | Personality group | N patients | N (%)  events | Unadjusted  HR (95% CI) | Adusted | | P-value for interactionb |
| HR (95% CI) | P-value |
| MACE | All patients | Higher | 303 | 120 (39.6) | Ref | Ref | 0.241 |  |
| Lower | 308 | 139 (45.1) | 1.21 (0.95-1.55) | 1.16 (0.90-1.50) |
| **BDNF** | | | | | | | |
| *val/val* | Higher | 75 | 34 (45.3) | Ref | Ref | 0.825 | 0.210 |
| Lower | 76 | 32 (42.1) | 0.91 (0.56-1.48) | 1.06 (0.62-1.82) |
| *val/met* | Higher | 164 | 65 (39.6) | Ref | Ref | 0.258 |
| Lower | 160 | 71 (43.4) | 1.18 (0.84-1.65) | 1.22 (0.86-1.74) |
| *met/met* | Higher | 64 | 21 (32.8) | Ref | Ref | 0.082 |
| Lower | 72 | 36 (50.0) | 1.81 (1.06-3.11) | 1.71 (0.93-3.15) |
| All-cause  mortality | All patients | Higher | 303 | 49 (16.2) | Ref | Ref | 0.781 |  |
| Lower | 308 | 57 (18.5) | 1.16 (0.79-1.70) | 1.06 (0.71-1.57) |
| **BDNF** | | | | | | | |
| *val/val* | Higher | 75 | 16 (21.3) | Ref | Ref | 0.070 | 0.214 |
| Lower | 76 | 11 (14.5) | 0.80 (0.56-1.16) | 0.42 (0.17-1.07) |
| *val/met* | Higher | 164 | 26 (15.9) | Ref | Ref | 0.203 |
| Lower | 160 | 34 (21.3) | 1.21 (0.88-1.65) | 1.42 (0.83-2.42) |
| *met/met* | Higher | 64 | 7 (10.9) | Ref | Ref | 0.111 |
| Lower | 72 | 12 (16.7) | 1.32 (0.71-2.45) | 2.49 (0.81-7.65) |
| Cardiac death | All patients | Higher | 303 | 30 (9.9) | Ref | Ref | 0.875 |  |
|  | Lower | 308 | 33 (10.7) | 1.10 (0.67-1.80) | 0.96 (0.57-1.61) |
| **BDNF** | | | | | | | |
| *val/val* | Higher | 75 | 9 (12.0) | Ref | Ref | 0.145 | 0.380 |
| Lower | 76 | 6 (7.9) | 0.81 (0.52-1.27) | 0.45 (0.26-1.17) |
| *val/met* | Higher | 164 | 15 (9.1) | Ref | Ref | 0.155 |
| Lower | 160 | 21 (13.1) | 1.24 (0.83-1.86) | 1.69 (0.82-3.46) |
| *met/met* | Higher | 64 | 6 (9.4) | Ref | Ref | 0.822 |
| Lower | 72 | 6 (8.3) | 0.94 (0.52-1.70) | 1.21 (0.24-6.00) |
| Myocardial  infarction | All patients | Higher | 303 | 35 (11.6) | Ref | Ref | 0.189 |  |
| Lower | 308 | 47 (15.3) | 1.42 (0.92-2.20) | 1.35 (0.86-2.12) |
| **BDNF** | | | | | | | |
| *val/val* | Higher | 75 | 6 (8.0) | Ref | Ref | 0.235 | 0.669 |
| Lower | 76 | 11 (14.5) | 1.45 (0.75-2.84) | 2.10 (0.62-7.16) |
| *val/met* | Higher | 164 | 21 (12.8) | Ref | Ref | 0.539 |
| Lower | 160 | 24 (14.4) | 1.07 (0.77-1.49) | 1.21 (0.66-2.23) |
| *met/met* | Higher | 64 | 8 (12.5) | Ref | Ref | 0.206 |
| Lower | 72 | 13 (18.1) | 1.28 (0.72-2.28) | 1.97 (0.69-5.66) |
| Percutaneous  coronary  intervention | All patients | Higher | 303 | 46 (15.2) | Ref | Ref | 0.464 |  |
| Lower | 308 | 57 (18.5) | 1.27 (0.86-1.87) | 1.16 (0.78-1.74) |  |
| **BDNF** | | | | | | | |
| *val/val* | Higher | 75 | 13 (17.3) | Ref | Ref | 0.875 | 0.204 |
| Lower | 76 | 12 (15.8) | 0.98 (0.67-1.43) | 0.93 (0.36-2.38) |
| *val/met* | Higher | 164 | 27 (16.5) | Ref | Ref | 0.603 |
| Lower | 160 | 29 (18.1) | 1.18 (0.87-1.60) | 1.16 (0.67-2.00) |
| *met/met* | Higher | 64 | 6 (9.4) | Ref | Ref | 0.174 |
| Lower | 72 | 16 (22.2) | 1.39 (0.82-2.36) | 2.28 (0.69-7.48) |

HR (95% CI) were calculated using Cox proportional hazards models.

aAdjusted for age, gender, education, accommodation, Beck Depression Inventory scores, previous history of depression, hypertension, diabetes, hypercholesterolemia, obesity, smoking, past history of ACS, ACS diagnosis, Killip class, left ventricular ejection fraction, and serum levels on troponin I, creatine kinase-MB, and high sensitivity C-reactive protein at baseline.

bMultiplicative interaction terms between personality and BDNF val66met polymorphism on MACE in the same adjusted model.