Three distinct patterns of mental health response after a sport accident

Supplementary Material

Psychiatry Study Team

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# Supplementary Methods

# Supplementary Tables

Table 1: Variables used in the analysis pipeline. The table is available in a supplementary Excel file.

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Table 2: Mental health assessment battery. The table is available in a supplementary Excel file.

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Table 3: Significant and near signifcant (unadjusted p < 0.05) differences between individuals excluded from analysis and analyzed study participants. Numeric variables are presented as medians with interquartile ranges (IQR). Categorical variables are presented as percentages and counts within the complete observation set.

| **Variable** | **Included** | **Excluded** | **Significance (FDR)a** | **Effect sizea** |
| --- | --- | --- | --- | --- |
| employment | employed: 68% (n = 210) household: 3.3% (n = 10) unemployed: 0.33% (n = 1) student: 10% (n = 32) retired: 18% (n = 54) n = 307 | employed: 54% (n = 43) household: 1.2% (n = 1) unemployed: 3.8% (n = 3) student: 19% (n = 15) retired: 22% (n = 18) n = 80 | ns (p = 0.12) | V = 0.19 |
| income/year | no income: 21% (n = 63) < 15000 Euro: 5.5% (n = 17) 15000 - 30000 Euro: 13% (n = 39) 30000 - 45000 Euro: 19% (n = 59) > 45000 Euro: 42% (n = 129) n = 307 | no income: 44% (n = 35) < 15000 Euro: 1.2% (n = 1) 15000 - 30000 Euro: 12% (n = 10) 30000 - 45000 Euro: 16% (n = 13) > 45000 Euro: 26% (n = 21) n = 80 | p = 0.029 | V = 0.23 |
| injury severity, AIS scoreb | 2 [IQR: 1 - 3] range: 1 - 5 n = 279 | 2 [IQR: 1 - 2] range: 1 - 4 n = 70 | ns (p = 0.24) | r = 0.12 |
| injury severity class, AIS scoreb | 1: 37% (n = 104) 2: 33% (n = 93) 3+: 29% (n = 82) n = 279 | 1: 46% (n = 32) 2: 40% (n = 28) 3+: 14% (n = 10) n = 70 | ns (p = 0.24) | V = 0.14 |
| upper limb injury | 42% (n = 118) n = 279 | 57% (n = 40) n = 70 | ns (p = 0.24) | V = 0.12 |
| somatic accident aftermath | 37% (n = 115) n = 307 | 22% (n = 12) n = 55 | ns (p = 0.24) | V = 0.12 |
| PTGI scorec | 32 [IQR: 16 - 48] range: 0 - 100 n = 307 | 8.5 [IQR: 3 - 41] range: 0 - 78 n = 18 | ns (p = 0.24) | r = 0.12 |
| PTGI I relations scorec | 12 [IQR: 6 - 18] range: 0 - 35 n = 307 | 2.5 [IQR: 0 - 13] range: 0 - 28 n = 18 | ns (p = 0.12) | r = 0.15 |
| PTGI III personal strength scorec | 8 [IQR: 4 - 11] range: 0 - 20 n = 307 | 4.5 [IQR: 0 - 8.8] range: 0 - 16 n = 18 | ns (p = 0.24) | r = 0.12 |
| PTGI V life appreciation scorec | 6 [IQR: 2 - 9] range: 0 - 15 n = 307 | 1.5 [IQR: 0.25 - 6.8] range: 0 - 12 n = 18 | ns (p = 0.27) | r = 0.11 |
| PSS4 scored | 4 [IQR: 3 - 6] range: 0 - 14 n = 307 | 5.5 [IQR: 4 - 7] range: 0 - 9 n = 42 | ns (p = 0.24) | r = 0.12 |
| SOC-9L scoree | 19 [IQR: 16 - 25] range: 10 - 49 n = 307 | 27 [IQR: 20 - 35] range: 17 - 50 n = 11 | ns (p = 0.12) | r = 0.15 |
| aNumeric variables: Mann-Whitney test with r effect size statistic; categorical variables: </² test with Cramer V effec size statistic. P values were corrected for multiple testing with the false discovery method (FDR) | | | | |
| bAIS: acute injury severity score | | | | |
| cPTGI: post-traumatic growth inventory | | | | |
| dPSS4: 4-item perceived stress scale | | | | |
| eSOC-9L: Leipzig 9-item sense of soherence scale | | | | |

# Supplementary Figures

# References