

**Exposure to workplace violence and threats and risk of depression: a prospective study<sup>1</sup>**

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1. *Supplementary Material*
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Table A. Baseline characteristics (2007) of respondents and non-respondents in 2009. Odds ratios (OR) and 95 % confidence intervals (CI). OR measuring the probability of respond to the questionnaire in 2009 for each category given the specified reference.

|                              | Non-respondents 2009 |    | Respondents 2009 |    | OR   | 95% CI    |
|------------------------------|----------------------|----|------------------|----|------|-----------|
|                              | N total<br>1280      | %  | N total<br>3209  | %  |      |           |
| <b>Gender</b>                |                      |    |                  |    |      |           |
| Female                       | 1002                 | 78 | 2519             | 79 | 1    |           |
| Male                         | 278                  | 22 | 690              | 21 | 0.99 | 0.84-1.16 |
| <b>Age groups</b>            |                      |    |                  |    |      |           |
| 19-29                        | 152                  | 12 | 252              | 8  | 1    |           |
| 30-39                        | 363                  | 28 | 726              | 23 | 1.21 | 0.95-1.53 |
| 40-49                        | 362                  | 28 | 972              | 30 | 1.62 | 1.28-2.05 |
| 50-59                        | 354                  | 28 | 1103             | 34 | 1.88 | 1.49-2.38 |
| >59                          | 49                   | 4  | 156              | 5  | 1.92 | 1.32-2.81 |
| <b>Higher education</b>      |                      |    |                  |    |      |           |
| <3 years                     | 328                  | 26 | 563              | 18 | 1    |           |
| 3-4 years                    | 831                  | 65 | 2247             | 70 | 1.58 | 1.35-1.85 |
| >4 years                     | 116                  | 9  | 389              | 12 | 1.95 | 1.53-2.50 |
| <b>Smoking</b>               |                      |    |                  |    |      |           |
| Never smoked                 | 554                  | 44 | 1526             | 48 | 1    |           |
| Former Smoker                | 412                  | 32 | 1159             | 36 | 1.02 | 0.88-1.19 |
| Smoker                       | 328                  | 24 | 502              | 16 | 0.59 | 0.50-0.70 |
| <b>Alcohol</b>               |                      |    |                  |    |      |           |
| ≤7 units/week                | 1002                 | 79 | 2408             | 76 | 1    |           |
| >7 units/week                | 259                  | 21 | 769              | 24 | 1.24 | 1.05-1.45 |
| <b>Traumatic life events</b> |                      |    |                  |    |      |           |
| No                           | 797                  | 62 | 2066             | 64 | 1    |           |
| Yes                          | 483                  | 38 | 1143             | 36 | 0.91 | 0.80-1.04 |
| <b>Family depression</b>     |                      |    |                  |    |      |           |
| No                           | 911                  | 73 | 2291             | 73 | 1    |           |
| Yes                          | 344                  | 27 | 863              | 27 | 1.00 | 0.86-1.16 |
| <b>Earlier depression</b>    |                      |    |                  |    |      |           |
| No                           | 1039                 | 84 | 2696             | 86 | 1    |           |
| Yes                          | 199                  | 16 | 428              | 14 | 0.83 | 0.69-1.00 |
| <b>Depressive symptoms</b>   |                      |    |                  |    |      |           |
| No                           | 1163                 | 92 | 2996             | 94 | 1    |           |
| Yes                          | 107                  | 8  | 203              | 6  | 0.74 | 0.58-0.94 |
| <b>Depression, ICD-10</b>    |                      |    |                  |    |      |           |
| No                           | 1250                 | 98 | 3139             | 98 | 1    |           |
| Yes                          | 30                   | 2  | 70               | 2  | 0.93 | 0.60-1.43 |
| <b>Neurotic</b>              |                      |    |                  |    |      |           |
| No                           | 1049                 | 82 | 2702             | 84 | 1    |           |
| Yes                          | 231                  | 18 | 507              | 16 | 0.85 | 0.72-1.01 |
| <b>Threats</b>               |                      |    |                  |    |      |           |

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|                 |      |    |      |    |      |           |
|-----------------|------|----|------|----|------|-----------|
| Never           | 763  | 60 | 2030 | 64 | 1    |           |
| Occasionally    | 399  | 31 | 917  | 29 | 0.86 | 0.75-1.00 |
| Frequently      | 111  | 9  | 241  | 7  | 0.82 | 0.64-1.04 |
| <b>Violence</b> |      |    |      |    |      |           |
| Never           | 1013 | 80 | 2620 | 82 | 1    |           |
| Occasionally    | 184  | 14 | 391  | 12 | 0.82 | 0.68-0.99 |
| Frequently      | 71   | 6  | 172  | 6  | 0.94 | 0.70-1.25 |

Table B. Risk of newly-onset depression from 2007 to 2009 and from 2009 to 2011 by self-reported threats of violence and violence in 2007 and 2009, respectively. With exclusion of employees with previous episodes of depression. Odds ratios (OR) and 95 % confidence intervals (CI).

|                            | Number of observations | New cases of depression SCAN | %   | OR <sub>crude</sub> | 95% CI    | OR <sub>adj</sub> | 95% CI    |
|----------------------------|------------------------|------------------------------|-----|---------------------|-----------|-------------------|-----------|
| <b>Threats:</b>            |                        |                              |     |                     |           |                   |           |
| Never                      | 3511                   | 44                           | 1.3 | 1                   |           | 1                 |           |
| Occasionally               | 1380                   | 14                           | 1.0 | 0.81                | 0.44-1.48 | 0.71              | 0.37-1.34 |
| Frequently                 | 346                    | 9                            | 2.6 | 2.10                | 1.02-4.34 | 2.02              | 0.92-4.43 |
| Continuous*                |                        |                              |     | 1.23                | 0.82-1.84 | 1.17              | 0.76-1.82 |
| Severity-frequency index** |                        |                              |     | 1.07                | 0.99-1.16 | 1.06              | 0.97-1.15 |
| <b>Violence:</b>           |                        |                              |     |                     |           |                   |           |
| Never                      | 4317                   | 49                           | 1.1 | 1                   |           | 1                 |           |
| Occasionally               | 606                    | 12                           | 2.0 | 1.78                | 0.92-3.47 | 1.41              | 0.67-2.98 |
| Frequently                 | 253                    | 5                            | 2.0 | 1.95                | 0.77-4.94 | 1.66              | 0.61-4.51 |
| Continuous*                |                        |                              |     | 1.49                | 1.02-2.18 | 1.32              | 0.84-2.07 |
| Severity-frequency index** |                        |                              |     | 1.12                | 1.02-1.23 | 1.11              | 0.97-1.27 |

adj adjusted for age, gender, depressive symptoms, family history of depression, higher education, alcohol, smoking, traumatic life events and neuroticism.

\*Increase in OR by 1 on a scale ranging from 0-3.

\*\* Increase in OR by 1 on the severity-frequency scale (ranging from 0-12 for threats and 0-24 for violence).

Figure A. The distribution of the severity frequency index for threats.

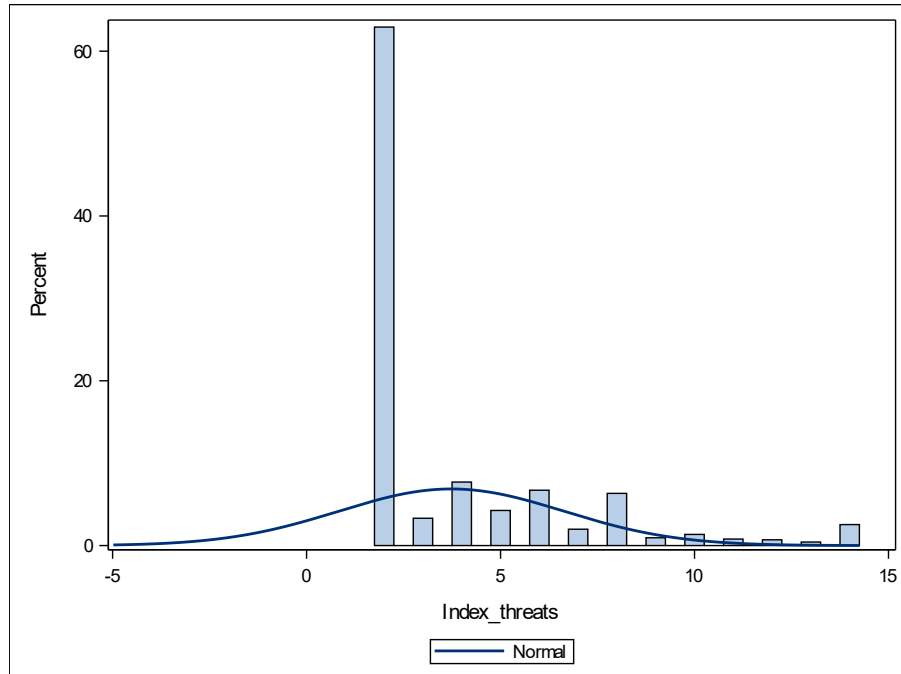


Figure B. The distribution of the severity frequency index for violence.

