**Additional table 2.** Multi exposure modelsa between the variables included in the sum-scores of ergonomic and psychosocial factors (at baseline), and musculoskeletal *pain* (at follow-up). The number of pain sites (stratified into five categories: 0, 1, 2, 3 and ≥ 4 sites) was analysed using ordinal regression with odds ratios (ORs) and 95% confidence intervals (CIs). The outcomes of the specific anatomical regions (the neck, shoulders, hands, low back and feet) were estimated using Poisson regression as prevalence ratio (PR) and 95% confidence intervals (CIs). All models were adjusted for personal- and life style factors a. Results in bold face are statistically significant.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Multisite pain |  | Specific pain sites |
|  |  | Number of pain sitesa (N=1059) |  | Neck (N = 1099) |  | Shoulders(N= 1090) |  | Hands (N = 1106) |  | Lower back (N =1092) |  | Feet (N =1105) |
|  | *N* | OR (CI) |  | PR (CI) |  | PR (CI) |  | PR (CI) |  | PR (CI) |  | PR (CI) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Ergonomic factors** |  |  |  |  |  |  |  |  |  |  |  |  |
| Mechanical Exposure Index | 1056 |  |  |  |  |  |  |  |  |  |  |  |
| No exposure  | 56 | 1 |  | 1 |  | 1 |  | 1 |  | 1 |  | 1 |
| Low  | 160 | 1.59 (0.82 – 3.09) |  | 1.25 (0.71 - 2.20) |  | 1.50 (0.80 - 2.80) |  | 0.57 (0.28 - 1.17) |  | 1.37 (0.77 - 2.44) |  | 1.19 (0.50 - 2.82) |
| Medium  | 393 | **2.92 (1.52 – 5.62)** |  | **1.77 (1.03 - 3.04)** |  | **2.11 (1.16 - 3.85)** |  | 0.96 (0.50 - 1.83) |  | **1.86 (1.07 - 3.21)** |  | 1.40 (0.61 - 3.23) |
| High  | 447 | **3.63 (1.80 – 7.32)** |  | **2.15 (1.22 - 3.77)** |  | **2.71 (1.47 - 5.00)** |  | 0.93 (0.47 - 1.87) |  | **1.90 (1.07 - 3.36)** |  | 1.58 (0.65 - 3.82) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Physical exposure index | 1063 |  |  |  |  |  |  |  |  |  |  |  |
| No exposure  | 113 | 1 |  | 1 |  | 1 |  | 1 |  | 1 |  | 1 |
| Low  | 288 | 0.88 (0.57 – 1.35) |  | 0.97 (0.75 - 1.25) |  | 1.04 (0.83 - 1.31) |  | 0.97 (0.64 - 1.49) |  | 0.92 (0.69 - 1.23) |  | 0.73 (0.41 - 1.30) |
| Medium  | 353 | 0.86 (0.54 – 1.37) |  | 0.89 (0.67 - 1.18) |  | 0.86 (0.66 - 1.11) |  | 1.13 (0.71 - 1.78) |  | 0.90 (0.66 - 1.23) |  | 0.89 (0.49 - 1.64) |
| High  | 309 | 1.17 (0.69 – 2.00) |  | 1.06 (0.78 - 1.44) |  | 0.95 (0.71 - 1.27) |  | 1.44 (0.87 - 2.37) |  | 0.92 (0.65 - 1.30) |  | 1.12 (0.58 - 2.17) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sensory demands | 1088 |  |  |  |  |  |  |  |  |  |  |  |
| Lowest quartile | 266 | 1 |  | 1 |  | 1 |  | 1 |  | 1 |  | 1 |
| 2 | 216 | 0.83 (0.57-1.21) |  | 0.80 (0.63 - 1.02) |  | 0.91 (0.73 - 1.13) |  | 0.94 (0.65 - 1.36) |  | 1.04 (0.81 - 1.33) |  | 1.12 (0.75 - 1.68) |
| 3 | 341 | 0.84 (0.58-1.21) |  | 0.82 (0.66 - 1.03) |  | 0.87 (0.71 - 1.07) |  | 1.09 (0.77 - 1.55) |  | 0.96 (0.75 - 1.23) |  | 1.01 (0.66 - 1.55) |
| Highest quartile | 265 | 0.94 (0.62-1.42) |  | 0.90 (0.70 - 1.15) |  | 0.84 (0.67 - 1.06) |  | 1.09 (0.74 - 1.60) |  | 0.98 (0.74 - 1.29) |  | 1.18 (0.74 - 1.86) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Psychosocial factors** |  |  |  |  |  |  |  |  |  |  |  |  |
| Job demands  | 1097 |  |  |  |  |  |  |  |  |  |  |  |
| 1st to 3rd quartile | 820 |  1 |  | 1 |  | 1 |  | 1 |  | 1 |  | 1 |
| Highest quartile | 277 | 1.29 (0.93 - 1.77) |  | 1.12 (0.94 - 1.34) |  | 1.14 (0.96 - 1.34) |  | 1.13 (0.87 - 1.48) |  | **1.21 (1.00 - 1.47)** |  | 1.00 (0.71 - 1.40) |
|  |  |   |  |   |  |   |  |  |  |   |  |   |
| Job control | 1097 |  |  |   |  |   |  |   |  |   |  |   |
| 2nd to 4th quartile | 810 | 1 |  |  1 |  | 1 |  |  1 |  | 1 |  | 1 |
| Lowest quartile | 287 | 1.28 (0.96 - 1.71) |  | **1.21 (1.02 - 1.43)** |  | 1.08 (0.92 - 1.26) |  | 0.98 (0.77 - 1.24) |  | 1.10 (0.92 - 1.31) |  | 0.99 (0.71 - 1.38) |
|  |  |   |  |   |  |   |  |  |  |   |  |   |
| Job support from colleagues | 1093 |  |  |   |  |   |  |   |  |   |  |   |
| 2nd to 4th quartile | 860 | 1  |  | 1  |  | 1 |  |  1 |  | 1 |  | 1  |
| Lowest quartile | 233 | 1.19 (0.89 - 1.61) |  | 1.17 (1.00 - 1.38) |  | 1.13 (0.97 - 1.32) |  | 1.19 (0.94 - 1.52) |  | 1.00 (0.83 - 1.20) |  | 1.03 (0.74 - 1.44) |
|  |  |   |  |   |  |   |  |  |  |   |  |   |
| Emotional demands | 1088 |  |  |   |  |   |  |   |  |   |  |   |
| 1st to 3rd quartile | 878 | **1** |  | 1  |  |  1 |  | 1  |  | 1 |  | 1  |
| Highest quartile | 210 | **1.76 (1.19 - 2.59)** |  | 1.22 (0.98 - 1.51) |  | 1.22 (0.99 - 1.50) |  | 1.15 (0.84 - 1.58) |  | 1.13 (0.90 - 1.42) |  | 1.25 (0.85 - 1.85) |
|  |  |   |  |   |  |   |  |  |  |   |  |   |
| Demands of hiding emotions | 1087 |  |  |   |  |   |  |   |  |   |  |   |
| 1st to 3rd quartile | 902 | **1** |  | 1  |  |  1 |  |  1 |  | 1 |  | 1  |
| Highest quartile | 185 | **1.42 (1.02 - 1.98)** |  | 1.04 (0.87 - 1.24) |  | 1.12 (0.95 - 1.31) |  | **1.38 (1.07 - 1.78)** |  | 1.12 (0.92 - 1.36) |  | 0.68 (0.45 - 1.03) |
|  |  |   |  |   |  |   |  |  |  |   |  |   |
| Leadership | 1088 |  |  |   |  |   |  |   |  |   |  |   |
| 2nd to 4th quartile | 852 | 1  |  | 1  |  |  1 |  |  1 |  | 1 |  |  1 |
| Lowest quartile | 234 | 1.07 (0.79 - 1.45) |  | 1.00 (0.84 - 1.19) |  | 1.01 (0.87 - 1.18) |  | 0.85 (0.65 - 1.11) |  | 1.00 (0.83 - 1.21) |  | 1.05 (0.76 - 1.46) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

 a All models include mechanical exposure index, physical exposure index, sensory demands, job demands, job control, job support from colleagues, emotional demands, demands of hiding emotions, leadership, computer work, age, BMI, personal relaxation, domestic work, physical exercise, smoking and occupational category.