Table S1. Supplementary analysis including BMI in the final model.a

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| --- | --- | --- | --- |
| Chronotype | Odds ratio | 95% confidence limit | |
| Lower | Upper |
|  | | | |
| **Rheumatoid arthritis diagnosed or treated by doctor in the past 12 months** (N=5589, No N=5517, Yes N=72) | | | |
| Evening-types | 1.0 | 0.4 | 2.8 |
| Intermediate-types | 2.0 | 1.2 | 3.3\*\* |
| **Rheumatic symptoms past month** (N=5593, No N=5195, Yes N=398) | | | |
| Evening-types | 1.6 | 1.2 | 2.2\*\* |
| Intermediate-types | 1.2 | 0.9 | 1.5 |
| **Articular pain** **past month** (N=5589, No N=3829, Yes N=1760) | | | |
| Evening-types | 1.3 | 1.0 | 1.6\* |
| Intermediate-types | 1.0 | 0.9 | 1.2 |
| **Other articular disease** **diagnosed or treated by doctor in the past 12 months** (N=5579, No N=5002, Yes N=577) | | | |
| Evening-types | 1.4 | 1.0 | 1.9\* |
| |  |  |  | | --- | --- | --- | | Intermediate-types |  | | | Lower | Upper | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  |   Intermediate-types | 1.0 | 0.8 | 1.2 |
| **Medication for articular pain** (N=5512, No N=1430, Yes N=4082) | | | |
| Evening-types | 1.2 | 1.0 | 1.5 |
| Intermediate-types | 1.1 | 0.9 | 1.2 |
| **Spinal disease diagnosed or treated by doctor in the past 12 months** (N=5579, No N=4726, Yes N=853) | | | |
| Evening-types | 1.6 | 1.3 | 2.1\*\*\* |
| Intermediate-types | 1.1 | 0.9 | 1.3 |
| **Backache past month** (N=5584, No N=3146, Yes N=2438) | | | |
| Evening-types | 1.5 | 1.2 | 1.8\*\*\*\* |
| Intermediate-types | 1.2 | 1.1 | 1.4\*\* |

a Controlled for gender, age, education level, civil status, physical activity, alcohol consumption, current smoking, and BMI. Morning-types as the reference category. \**p* <0.05; \*\**p* <0.01; \*\*\**p* <0.001; \*\*\*\**p* <0.0001