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

|  |  |  |
| --- | --- | --- |
| 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