Supplementary table 1. Comparisons between clusters for Mathys Emotional reactivity score and PSQI total score

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cluster 1  Normal emotional reactivity  with normal sleep  n=285 | Cluster 2  Hypo emotional reactivity with disturbed sleep  N=118 | Cluster 3  Hyper emotional reactivity with disturbed sleep  N=130 | Comparison between clusters 1/2/3  *p* | P 1/2 | P 1/3 | P 2/3 |
| Emotional reactivity | 20.4 (3.7)  Median=20  [IQR]=[19-22] | 16.5 (5.3)  Median=19  [IQR]=[14-20] | 27.6 (4.5)  Median=26.5  [IQR]=[24-31.5] | **<0.0001** | **<0.0001** | **<0.0001** | **<0.0001** |
| PSQI score | 3.8 (1.6)  Median=4  [IQR]=[3-5] | 9.9 (2.5)  Median=10  [IQR]=[8-12] | 8.7 (3.1)  Median=8  [IQR]=[7-10] | **<0.0001** | **<0.0001** | **<0.0001** | **0.0007** |

**In bold: results that remained significant after correction for multiple testing**

PSQI : Pittsburgh Sleep Quality Index

Supplementary table 2. Comparisons between clusters for the PSQI sub-components

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PSQI components | Cluster 1  Normal emotional reactivity  with normal sleep  n=285 | Cluster 2  Hypo emotional reactivity with disturbed sleep  N=118 | Cluster 3  Hyper emotional reactivity with disturbed sleep  N=130 | Comparison between clusters 1/2/3  *p* | Comparison between clusters 2/3  *p* |
| Daytime dysfunction | 0.80 (0.65) | 1.48 (0.88) | 1.36 (0.84) | **<0.0001** | 0.34 |
| Habitual sleep efficiency | 0.20 (0.58) | 1.28 (1.14) | 0.84 (1.13) | **<0.0001** | **0.0008** |
| Sleep duration | 0.08 (0.30) | 0.50 (0.80) | 0.45 (0.77) | **<0.0001** | 0.54 |
| Sleep disturbances | 1.04 (0.45) | 1.64 (0.65) | 1.50 (0.57) | **<0.0001** | 0.09 |
| Use of sleep medication | 0.40 (0.89) | 1.83 (1.33) | 1.72 (1.37) | **<0.0001** | 0.54 |
| Sleep latency | 0.76 (0.70) | 1.77 (0.98) | 1.50 (0.87) | **<0.0001** | 0.02 |
| Subjective sleep quality | 0.58 (0.56) | 1.42 (0.70) | 1.28 (0.76) | **<0.0001** | 0.14 |

**In bold: results that remained significant after correction for multiple testing**

PSQI : Pittsburgh Sleep Quality Index