The association between sleep-related cognitions, psychological flexibility, and insomnia symptoms

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Introduction

model metacognitive insomnia defines cognitive activity arousal primary and interpretation given to thoughts as a secondary arousal. It that the content maladaptive sleep-related thoughts contributes to the maintenance of insomnia disorder due to the mutual influence of primary and secondary This work tests processes. psychological inflexibility moderates relationship dysfunctional beliefs about sleep and insomnia severity.

Methods

Data were collected from online surveys responded by 629 adults, aged 18 to 59 years, who reported experiencing insomnia symptoms. Participants completed self-report including: questionnaires, Hospital Anxiety and Depression Scale (HADS); II) Insomnia Severity Index (ISI); III) Dysfunctional Beliefs and Attitudes about Sleep Scale (DBAS-16); IV) Acceptance Action Questionnaire (AAQ-II). A linear model (estimated using OLS) was fitted to predict ISI scores from DBAS-16 and AAQ-II with age, sex and HADS subscales as covariates.

Results

The model significantly predicted ISI scores (F(621, 7) = 42), p < 0.001, R_{adj}^2 = 0.31), accounting for 31% of the variance.

Table 1: Results from the regression model examining the effects of age, sex, cognitive processes (DBAS-16 and AAQ-II) and anxiety and depressive symptoms on the severity of insomnia.

	Coef.	SE
Age	0.003 [-0.003, 0.010]	0.003
Sex	0.027 [-0.131, 0.185]	0.080
HADS-A	0.149 [0.057, 0.241]**	0.047
HADS-D	0.071 [-0.023, 0.165]	0.048
DBAS	0.393 [0.317, 0.469]***	0.039
AAQ	0.107 [0.006, 0.208]*	0.051
DBAS x AAQ	0.068 [0.009, 0.127]*	0.030

^{*} p < 0.05, ** p < 0.01, *** p < 0.001

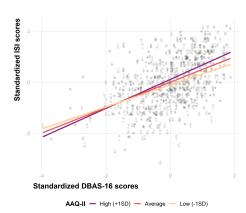


Figure 1: Decomposing dysfunctional beliefs about sleep by psychological inflexibility interaction via simple slopes for psychological inflexibility.

Conclusion

The significant interaction effect indicates that the prediction effect of dysfunctional beliefs about sleep may become more positive for additional levels of psychological inflexibility.





