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Highlights

Abstract

Keywords

- 1. Introduction
- 2. Methods
- 3. Results
- 4. Discussion
- 5. Conclusions

Conflict of interest

Authors' contributions

Contributors

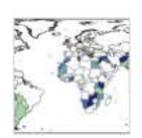
Acknowledgements

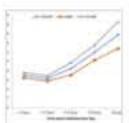
Conflict of interest

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Sleep Medicine Volume 58, June 2019, Pages 19-26

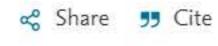


Original Article

Sedentary behavior and anxiety-induced sleep disturbance among 181,093 adolescents from 67 countries: a global perspective

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https://doi.org/10.1016/j.sleep.2019.01.048

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Highlights

- The prevalence of anxiety-induced sleep disturbance in adolescents is 7.8%.
- Being sedentary is associated with higher odds for anxiety-induced sleep disturbance.
- The association was similar among boys and girls.

Abstract

Objectives

Sleep problems are burdensome in adolescents. Understanding modifiable environmental risk factors is essential. There is evidence that physical activity is protective against sleep problems in adolescents. However, the association between sedentary behavior (SB) and anxiety-induced sleep disturbance has not been investigated.

Methods

Using cross-sectional data from the Global school-based Student Health Survey, we explored the association between SB and anxiety-induced sleep disturbance in 181,093 adolescents [mean (standard deviation, SD) age 13.7 (1.0) years; 48.4% girls] from 67 countries, controlling for confounders (including physical activity). Adolescents reported anxiety-induced sleep disturbance during the past 12 months, and SB, which was a composite variable assessing time spent sitting and watching television, playing computer games, talking with friends during a typical day excluding the hours spent sitting at school and doing homework. Multivariable



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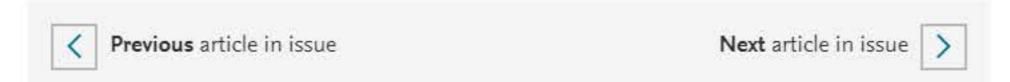
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Results

Overall, 7.8% of adolescents had anxiety-induced sleep disturbance. The prevalence of SB was: <1 h/day 39.9%; 1-2 h/day 33.8%; 3-4 h/day 15.4%; 5-8 h/day 7.4%; and >8 h/day 3.6%. Compared to <1 h/day of SB, >8 h/day was associated with a 2.27 [95% confidence interval (CI) = 1.98-2.62] times higher odds for anxiety-induced sleep disturbance. The association was similar among both sexes. The pooled odds ratio for anxiety-induced sleep disturbance when being sedentary ≥3 h/day was 1.42 (95% CI = 1.36–1.48) with only a small degree of between-country heterogeneity $(I^2 = 41.4\%).$

Conclusions

Future longitudinal data are required to confirm/refute the findings to inform public interventions which aim to reduce anxiety and sleep disturbance in adolescents.



Keywords