

## Screen time before bed puts children at risk of anxiety, obesity and poor sleep

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Pre-teens who use a mobile phone or watch TV in the dark an hour before bed are at risk of not getting enough sleep, a new study reveals.



The risk is comparatively lower for children who use these devices in a lit room or do not use them at all before bedtime.

## Pre-sleep device use

The study by researchers from Imperial College London, the University of Lincoln, Birkbeck University of London and the Swiss Tropical and Public Health Institute in Basel, Switzerland is the first to analyse the presleep use of media devices with screens alongside the impact of room lighting conditions on sleep in pre-teens.

They found that night-time use of phones, tablets and laptops is consistently associated with poor sleep quality, insufficient sleep, and poor perceived quality of life. Insufficient sleep has also been shown to be associated with impaired immune responses, depression, anxiety and obesity in children and adolescents.

Data was collected from 6,616 adolescents aged between 11 and 12 and more than 70 per cent reported using at least one screen based device within one hour of their bedtime. They were asked to self-report a range of factors including their device use in both lit and darkened rooms, their weekday and weekend bedtimes, how difficult they found it to go to sleep and their wake up times.

The results showed that those who used a phone or watched television in a room with a light on were 31 per cent more likely to get less sleep than those who didn't use a screen. The likelihood increased to 147 per cent if the same activity took place in the dark.

It has been reported that globally, 90 per cent of adolescents are not sleeping the recommended nine to 11 hours per night, which has coincided with an increase in the use of screen-based media devices. In the UK alone, it is estimated that 98 per cent of 12 to 15 year olds watch



television and over 90 per cent use mobile phones at home.

## Vital sleep duration and quality

Previous studies have shown that sufficient sleep duration and quality are vital in childhood to maintain physical and mental development. Sleep is also crucial for cognitive processes and a lack of sufficient sleep has been directly related to poor academic performance.

Lead author, Dr. Michael Mireku, a researcher at the University of Lincoln's School of Psychology said: "While previous research has shown a link between screen use and the quality and length of young people's sleep, ours is the first study to show how <u>room</u> lighting can further influence this.

"Our findings are significant not only for parents but for teachers, health professionals and adolescents themselves. We would recommend that these groups are made aware of the potential issues surrounding screen use during bedtime including insufficient sleep and poor sleep quality."

The full research paper, "Night-time screen-based media device use and adolescents sleep and health related quality of life," was published in *Environment International*.

**More information:** Michael O. Mireku et al. Night-time screen-based media device use and adolescents' sleep and health-related quality of life, *Environment International* (2019). DOI: 10.1016/j.envint.2018.11.069

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