The Importance of Adolescent Sleep

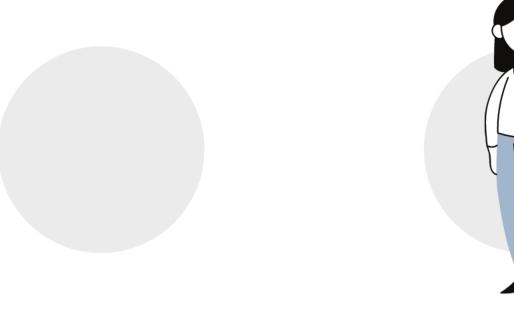
Jessica March

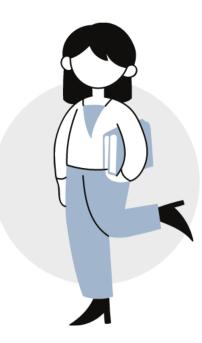
Supervised by Jakke Tamminen and Jessie Ricketts

Funded by the Waterloo Foundation



What is adolescence?





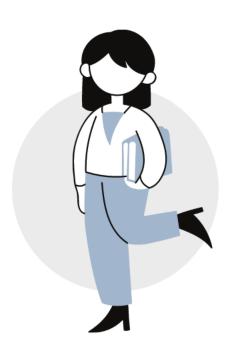




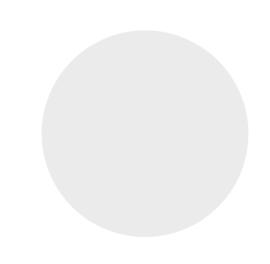
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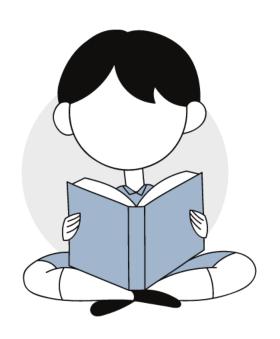
10 + YEARS OLD



TEENAGERS



What is adolescence?







10 + YEARS OLD

TEENAGERS

UP TO 24 YEARS OLD

Adolescent development is based on biological (e.g. puberty, brain development) and social (e.g. staying in education, living with parents). This is important from late primary school, through secondary school, college and university

What is important about adolescent sleep?



Sleep becomes later

Seen in different cultures and in other mammals during puberty too!

But what is sleep?

SLEEP QUALITY

Subjective rating

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SLEEP LATENCY AND DURATION

How long did it take to fall asleep? How long did you sleep?

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SLEEP EFFICIENCY

The proportion of time you sleep, out of the total time in bed

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How alert/awake are you during the day?

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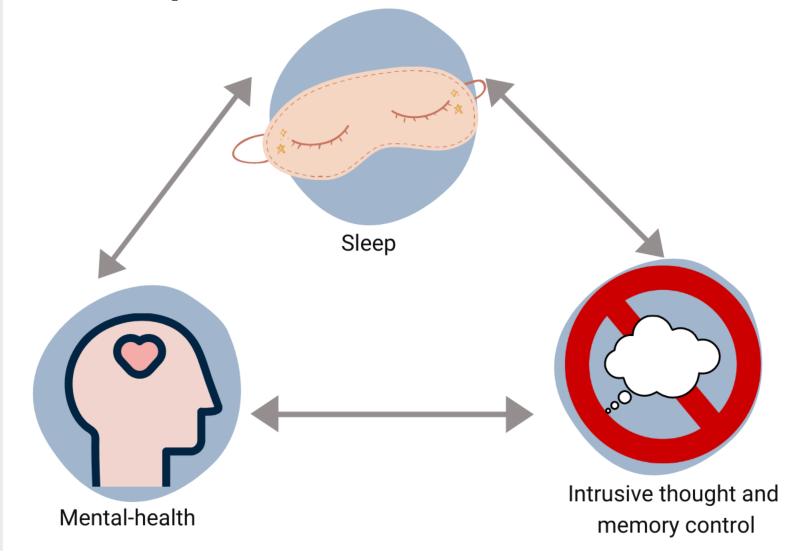
DAYTIME DYSFUNCTION

How alert/awake are you during the day?



Harrington & Cairney (2021)

The interaction between sleep and mental-health



Feelings and mentalhealth: The tripartite model (e.g. Clark & Watson, 1991)





POSITIVE AFFECT e.g.excited, inspired.

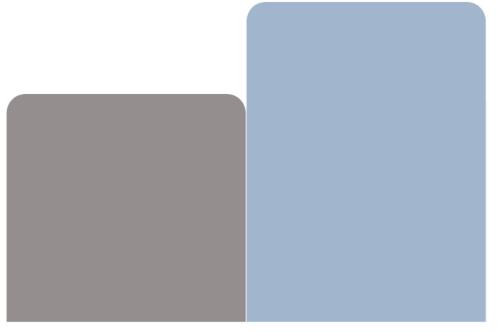
Low positive affect uniquely predicts higher levels of depression e.g. anhedonia

NEGATIVE AFFECT e.g. hostile, afraid, upset

High negative affect predicts poorer mentalhealth generally Lower scores are better sleep Measured with the PSQI

13-16 year olds (our data)

18-24 year olds (our data)

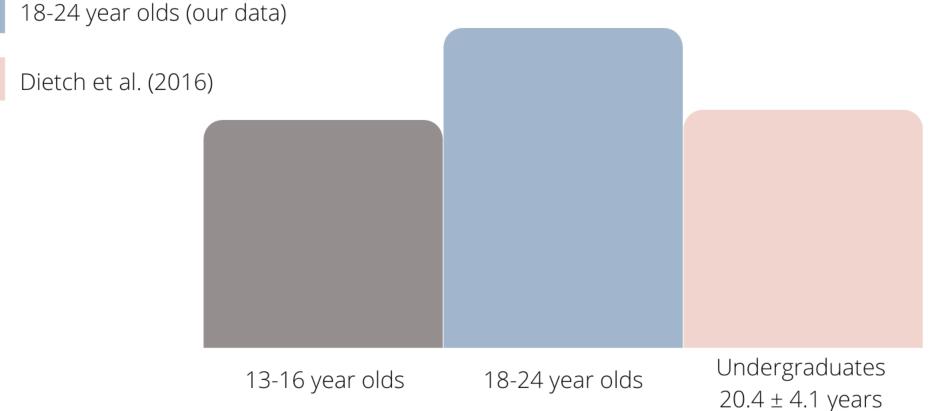


13-16 year olds

18-24 year olds

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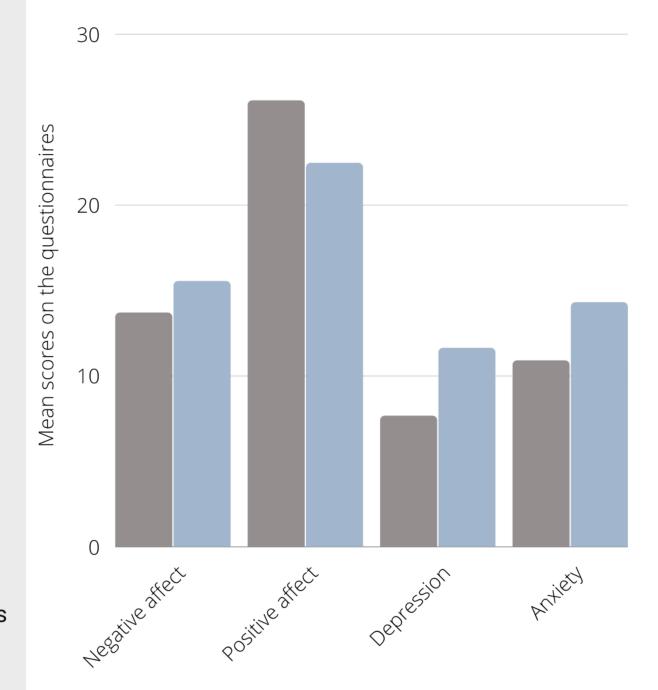
Mean scores on PSQI



13-16 year olds

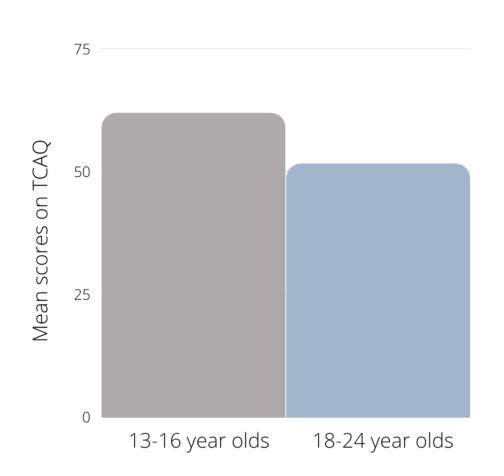
18-24 year olds

The younger adolescents (who had better sleep) have lower negative affect, higher positive affect, and lower levels of depression and anxiety than the older adolescents (who reported worse sleep)



How well can they control their thoughts?

The younger group, who sleep better and report better feelings and mental-health also show better thought control than older adolescents



For younger (13-16) and older (18-24) adolescents



POOR SLEEP WAS RELATED TO

Higher negative affect Lower positive affect

For younger (13-16) and older (18-24) adolescents



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AFFECT WAS RELATED TO MENTAL-HEALTH

Directly, and via poor sleep

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POOR SLEEP WAS ASSOCIATED WITH LOWER THOUGHT CONTROL ABILITY

For younger (13-16) and older (18-24) adolescents



POOR SLEEP WAS RELATED TO

Higher negative affect Lower positive affect



AFFECT WAS RELATED TO MENTAL-HEALTH

Directly, and via poor sleep



POOR SLEEP WAS
ASSOCIATED WITH
LOWER THOUGHT
CONTROL ABILITY



WAS ASSOCIATED WITH WORSE MENTAL HEALTH

Directly, and via poor sleep

Research to practice?



SLEEP IS IMPORTANT

Students not sleeping enough may have worse mood and poorer mental-health



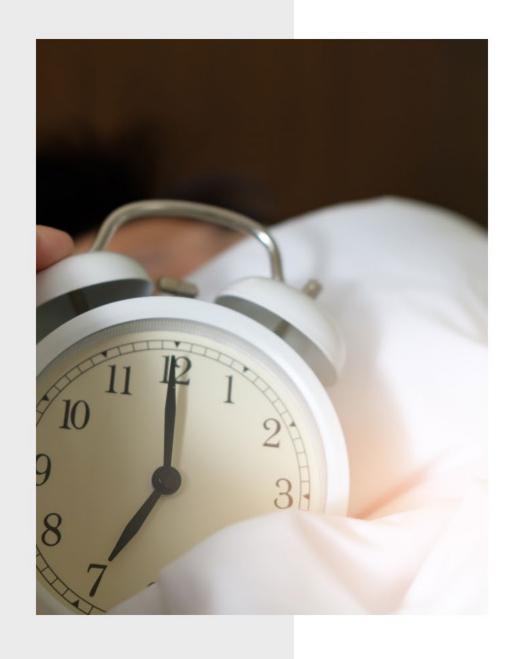
STUDENTS WITH SEMH

Students struggling with their mental-health may also struggle with sleep



INTRUSIVE THOUGHTS

In schools - could be related to feedback, self-esteem, bullying etc.



THANKYOU

The Waterloo Foundation, for funding

Jakke Tamminen and Jessie Ricketts, for supervising

You, for listening!

Any questions/comments?



