

Chronotype and Sleep Quality During Remote and In-Person Activities in an Academic Context

Costin, G., Jorgensen, M., Wileman, S., Havel, A., Wing, S., Creti, L., Bailes, S., Libman, E., Vasseur, A., Ereshchenko, D., Vo, C., & Fichten, C.

INTRODUCTION

- Sleep can be affected by different factors in an academic context:
 - COVID-19 remote activities
 - Return to in-person activities
 - Chronotype
- Lack of research on chronotype and COVID-19

Research question:

What role has chronotype played in affecting sleep quality during the remote (COVID-19) and in-person academic activities?

METHODS

65 participants from Dawson College:

- 22 teachers (10 with a disability, 12 without a disability)
- 21 non-teaching staff (10 with a disability, 11 without a disability)
- 22 students (15 with a disability, 7 without a disability)

Participants completed:

- **Reduced Morningness-Eveningness Questionnaire**
 - 3 chronotypes (range of scores: 4 to 25)
 - Morningness (n = 21, range of scores = 18-25)
 - Intermediate (n = 28, range of scores = 12-17)
 - Eveningness (n = 16, range of scores = 4-11)
- **Two questions on sleep quality**
 - On a scale of 1 to 10, with 1 being very poor and 10 being very good, overall, what was the quality of your sleep during your last **remote** learning/working/teaching semester?
 - On a scale of 1 to 10, with 1 being very poor and 10 being very good, overall, what was the quality of your sleep during your last **in-person** learning/working/teaching semester?

CONCLUSION

- Individuals with morningness and intermediate chronotypes reported better sleep quality than individuals with an eveningness chronotype.
 - This finding aligns with previous research.
- Participants generally slept significantly better remotely.

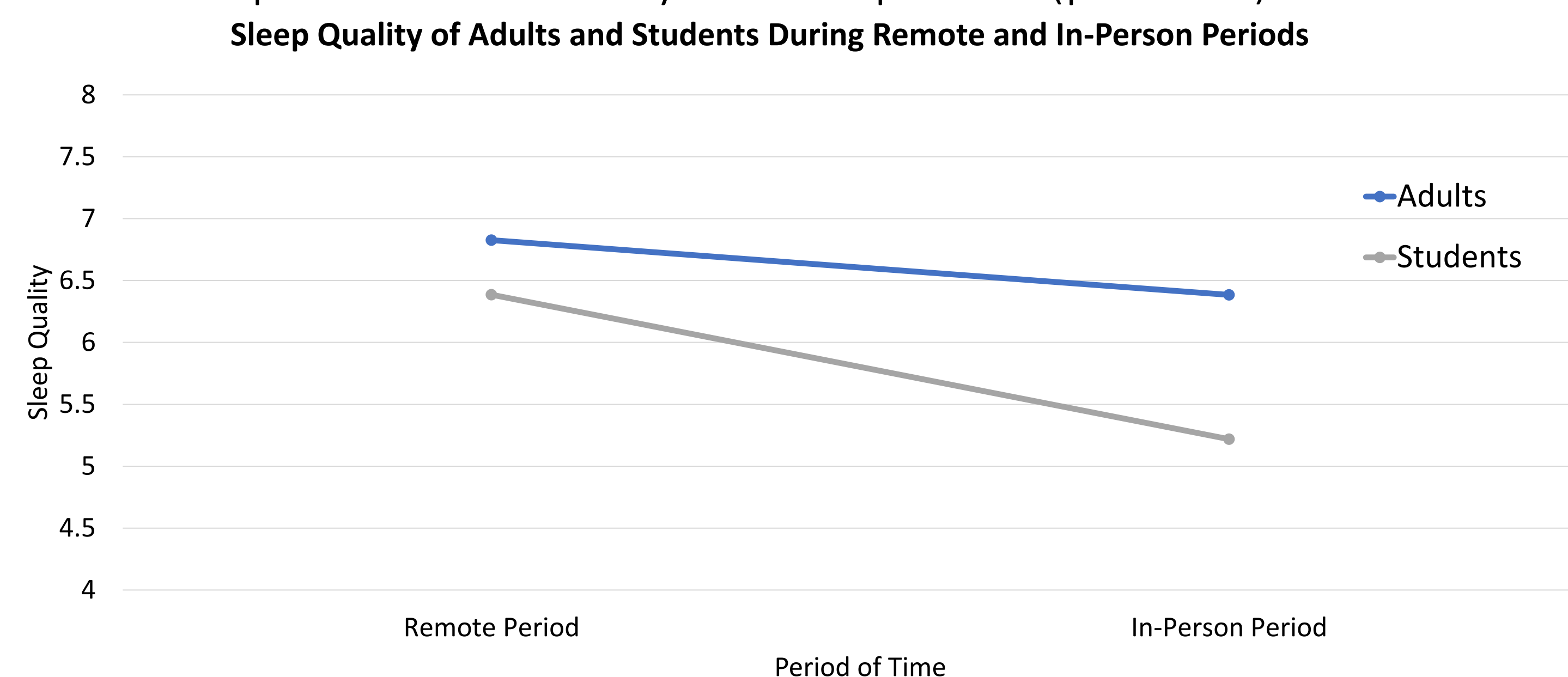
Implications:

- Learning, teaching and working remotely could be beneficial for sleep.

RESULTS

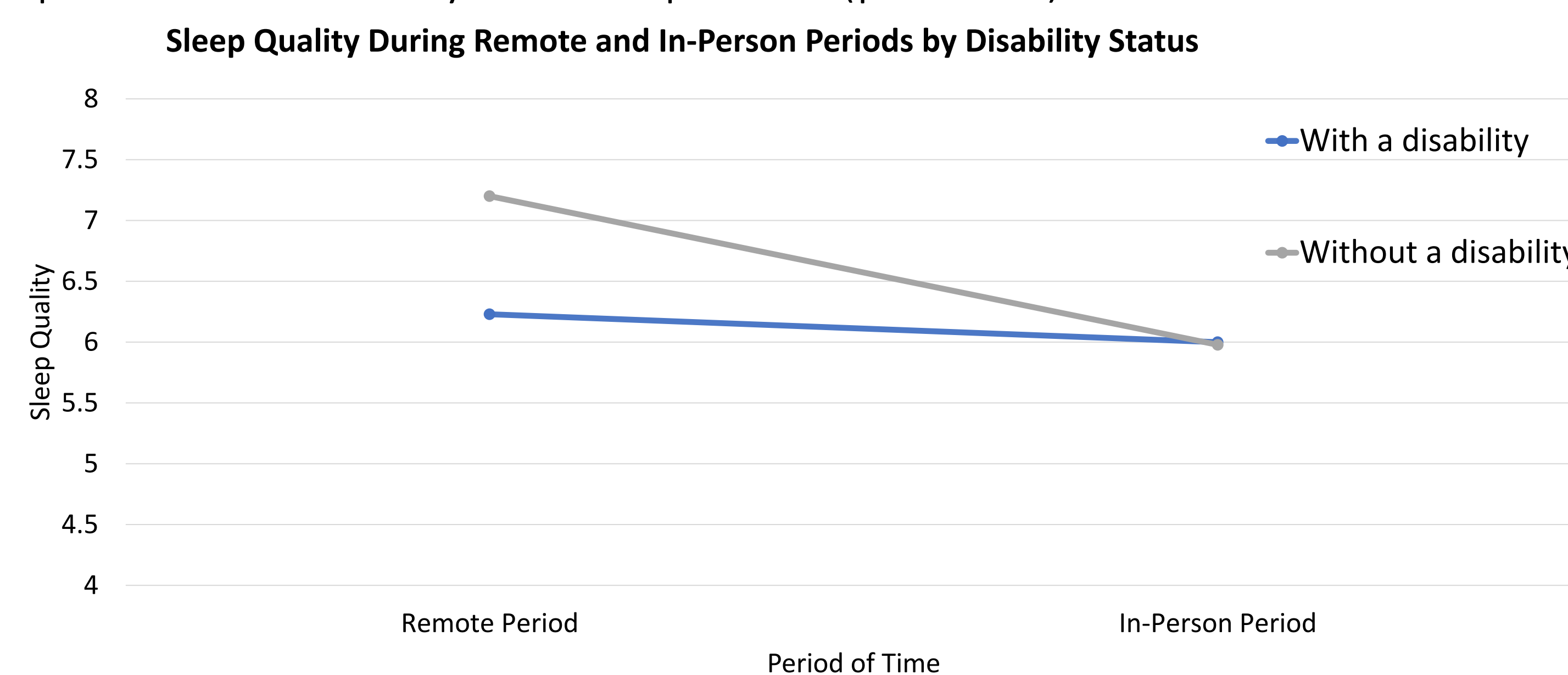
How did the COVID-19 pandemic affect the sleep quality of students and adults during remote and in-person activities?

- There was no significant difference in sleep quality between adults and students ($p = 0.05$).
- Generally, individuals slept better remotely than in-person ($p < 0.05$).



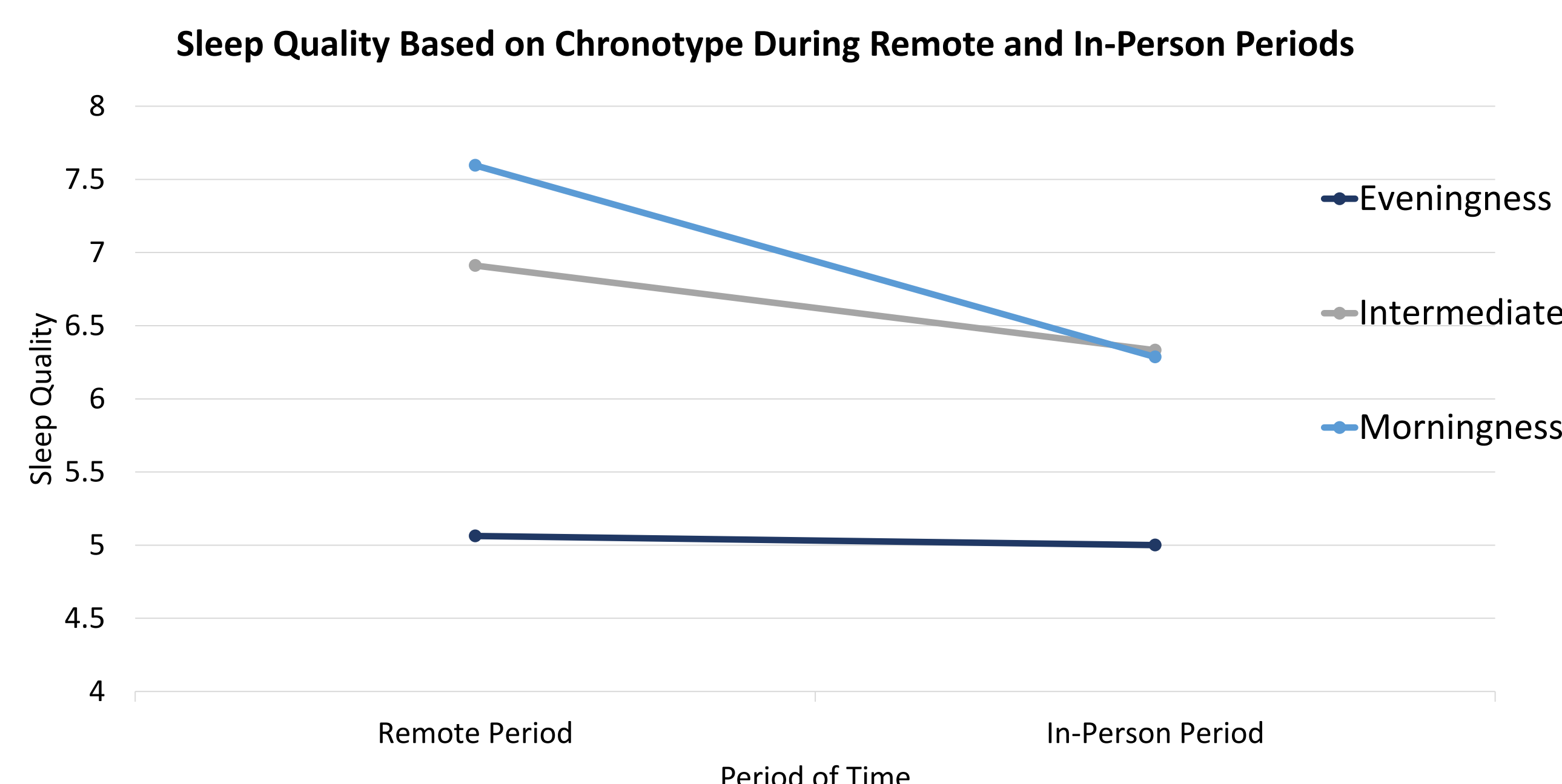
Did disability status impact the sleep quality of post-secondary students, faculty and non-teaching staff during the remote and in-person activities of COVID-19?

- There was no significant difference in sleep quality between individuals with disabilities and individuals without disabilities ($p = 0.228$).
- Participants slept better remotely than in-person ($p < 0.05$).

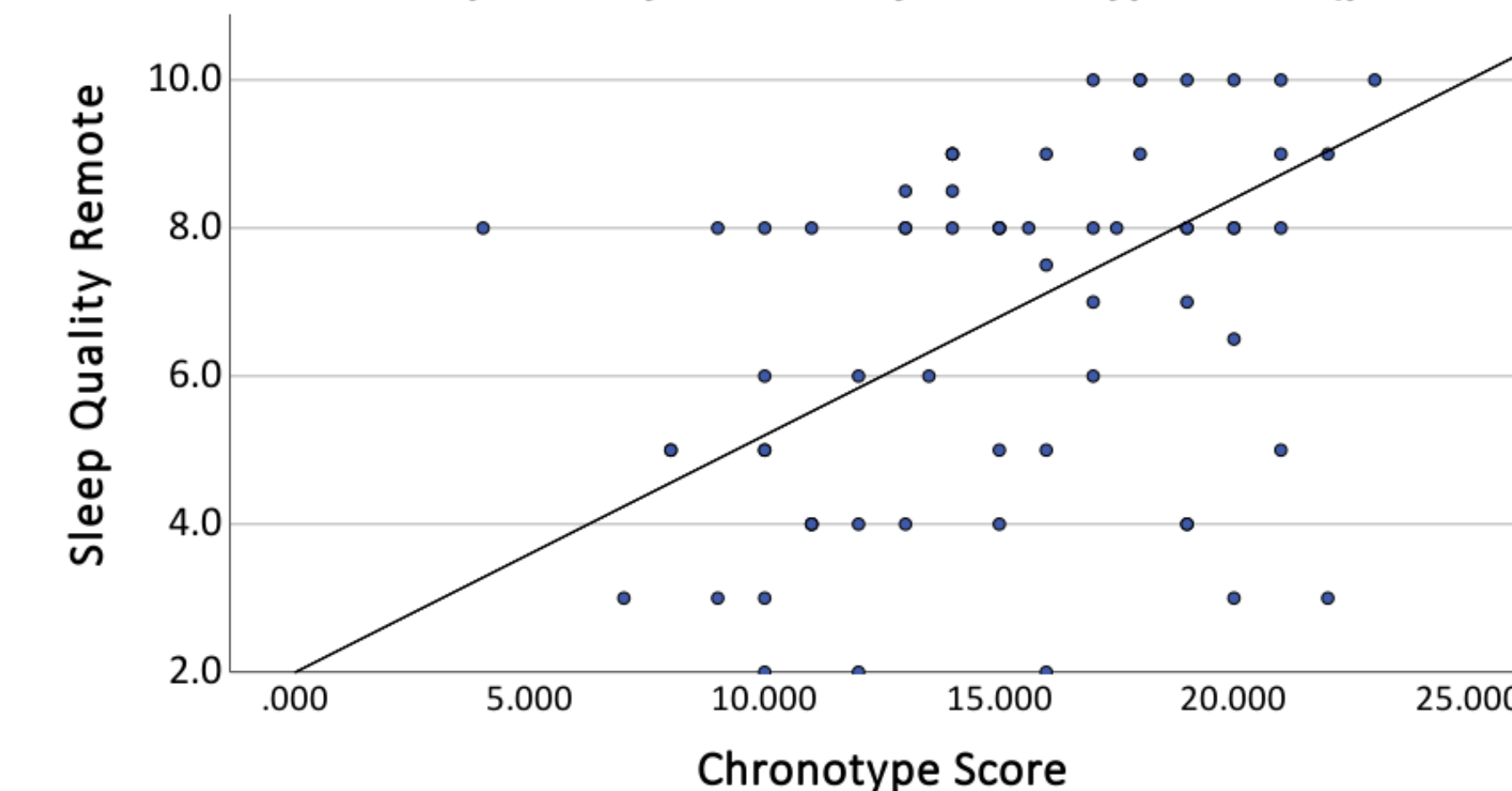


Did chronotype impact the sleep quality of post-secondary students, faculty and non-teaching staff during the remote and in-person activities of COVID-19?

- Individuals with morningness and intermediate chronotypes slept significantly better than individuals with an eveningness chronotype ($p < .001$).



Scatter Plot of Sleep Quality Remote by Chronotype Score ($p < 0.05$)



Scatter Plot of Sleep Quality In-Person by Chronotype Score ($p = 0.067$)

