



Measuring and Identifying Multilevel Influences on Sleep

Background

Sleep plays an important role in the wellbeing of a child. From learning and academic performance to health function, sleep is vital to the development of a child (Agostini and Centofanti, 2021).

Children who receive less than eight hours of sleep daily have an increase of mental health, physical, and emotional health concerns (Agostini and Centofanti, 2021).

Although poor sleep leads to several consequences, less is known about what affects sleep in Latino/Hispanic children.

Objective / Hypothesis

1.Identify individual, social, and environmental-level antecedents of sleep duration, quality, and timing in Latino youth.

2.To enhance best practices for improving sleep tailored to this vulnerable group.



LONG BEACH STATE UNIVERSITY **CENTER FOR LATINO COMMUNITY HEALTH EVALUATION & LEADERSHIP TRAINING**

CALIFORNIA STATE UNIVERSITY LONG BEACH

Multilevel Influences on Sleep in Latino Children

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Method

Participants:

- Inclusion criteria:
- Latino/Hispanic children and parent self identified as Latino/Hispanic
- Ages 10 12 years old
- Within a 20-mile radius from California State Long Beach Recruitment Procedures: Participants are recruited using community-based methods. Examples; word-of-mouth, er social media outlets.
- Consent Procedures includes parent permission, child as and adult consent.

Procedures:

- 1.Survey Procedures: access child factors related to sleep, including psychosocial, behavioral, social and environmenta factors.
- 2. Dietary Assessment Procedures: Dietary intake among 24-hour dietary recalls (including 1 weekend and 2 weekday 3.Actigraphy Procedures: participants will wear a wrist-place Actiwatch Spectrum (Philips Respironics) accelerometer, for consecutive days, 24-hours per day to capture sleep and ac levels, supplemented with a wear log and sleep diary.
- 4.EMA Procedures: participants will respond to survey prom using an EMA mobile phone for 14 continuous days.

Results

Focus: Quantitative aspect of research.

List of activities completed:

- Consent visits: focuses on the requisites of the study and child consent.
- Lab Meetings: bi-weekly meetings regarding the status of our project. Also, aims to address overall lab issues.
- Outreach and recruitment: including parks and virtual phone calls.
- Enrollment: follow-up with scheduling consent appointments after outreach and recruitment process.
- Training: increase knowledge among the effects of sleep and diet. In addition, partake on recruitment, consenting, data collection, diet recalls, survey administration, and anthropometric measures.

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is mail and ssent, al	 Design and Analysis: Quantitative micro-longitudinal design Multilevel regression analysis via SAS v. 9.4 Measures: Macronutrients (g): fat, protein, and fiber. Food groups: vegetables, fruits, grains, dairy, protein. NCI Automated Self Administered 24-hour Software (ASA24) Sleep duration, quality, and timing (Philips-Respironics Inc., n.d.) (Buysse et al., 1989). Psychological factors (perceived-stress) (Cohen and Williamson, 	The reduce min part To i We influe and incle psy stre (24-
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Conclusion

e long-term goal of the research is to duce childhood obesity among ethnic nority children by addressing sleep as rt of the etiology of obesity.

spected outcomes of the MIMIS project: identify what influences sleep. e expect factors at multiple levels of luence will affect sleep duration, timing d quality. Levels of influence measured ludes; community (neighborhood safety), ychological/interpersonal (perceived) ess and parental conflict), and behavioral 4-hour diet recall and activity levels).

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References

