

Loneliness, Marital Status, and Cognition in Mid- to Late-Life



Introduction

- There is an established connection between cognitive decline and loneliness. (1,3)
- Loneliness and marital status are linked and independently predict cognition. (2,3)
- Despite the close link between marital status and loneliness, evidence remains mixed on whether the link between loneliness and cognitive decline depends on marital status. (4,5,6)

Hypotheses

- 1. Married individuals will have higher cognitive functioning.
- 2. Higher loneliness will be associated with worse cognitive functioning.
- 3. The relationship between loneliness and cognition may depend on marital status, such that married individuals may experience better cognitive function regardless of self-reported loneliness.

Methods

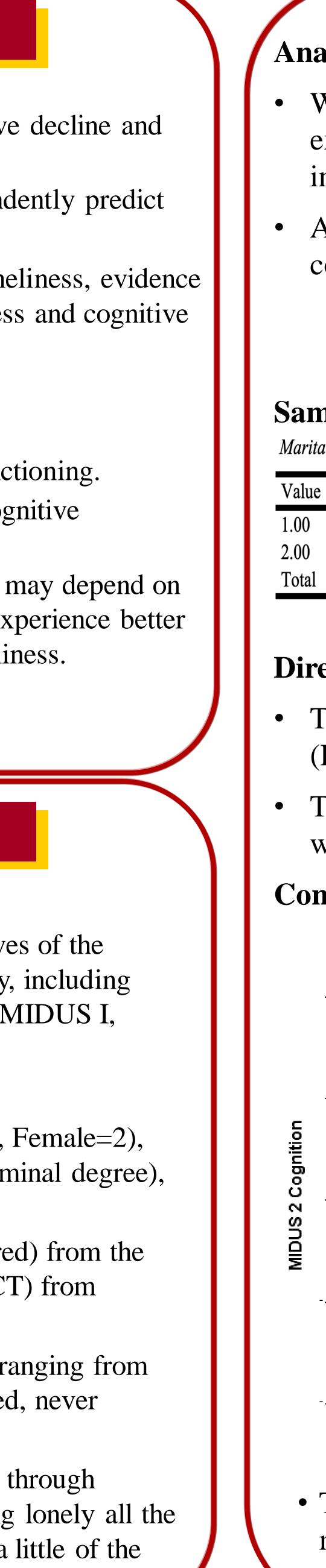
Participants

Participants included adults who completed two waves of the Midlife in United States (MIDUS) longitudinal study, including follow-up data from the cognitive study at Wave II (MIDUS I, Baseline: 1995-1996; N=7,108; age range =25-86)

Measures

- **Covariates** included self-reported age, sex (Male=1, Female=2), educational level (1=no school/grad school - 12=terminal degree), and total annual household income.
- **Cognition** was assessed using the total score (z-scored) from the Brief Test for Adult Cognition via Telephone (BTACT) from MIDUS II.
- Marital Status was assessed through a self-survey, ranging from married (1) and unmarried (2; i.e., divorced, widowed, never married)
- **Loneliness** was assessed through a self-survey done through MIDUS determining whether they were either feeling lonely all the time (5), most of the time (4), some of the time (3), a little of the time (2), or none of the time (1).

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Analyses

- We used hierarchical regression and moderation models in SPSS to examine the effects marital status and loneliness on cognitive impairment in MIDUS waves I-II.
- Age, sex, household income, educational level were included as covariates.

Results

Sample Characteristics

Marital Status Dichotomized

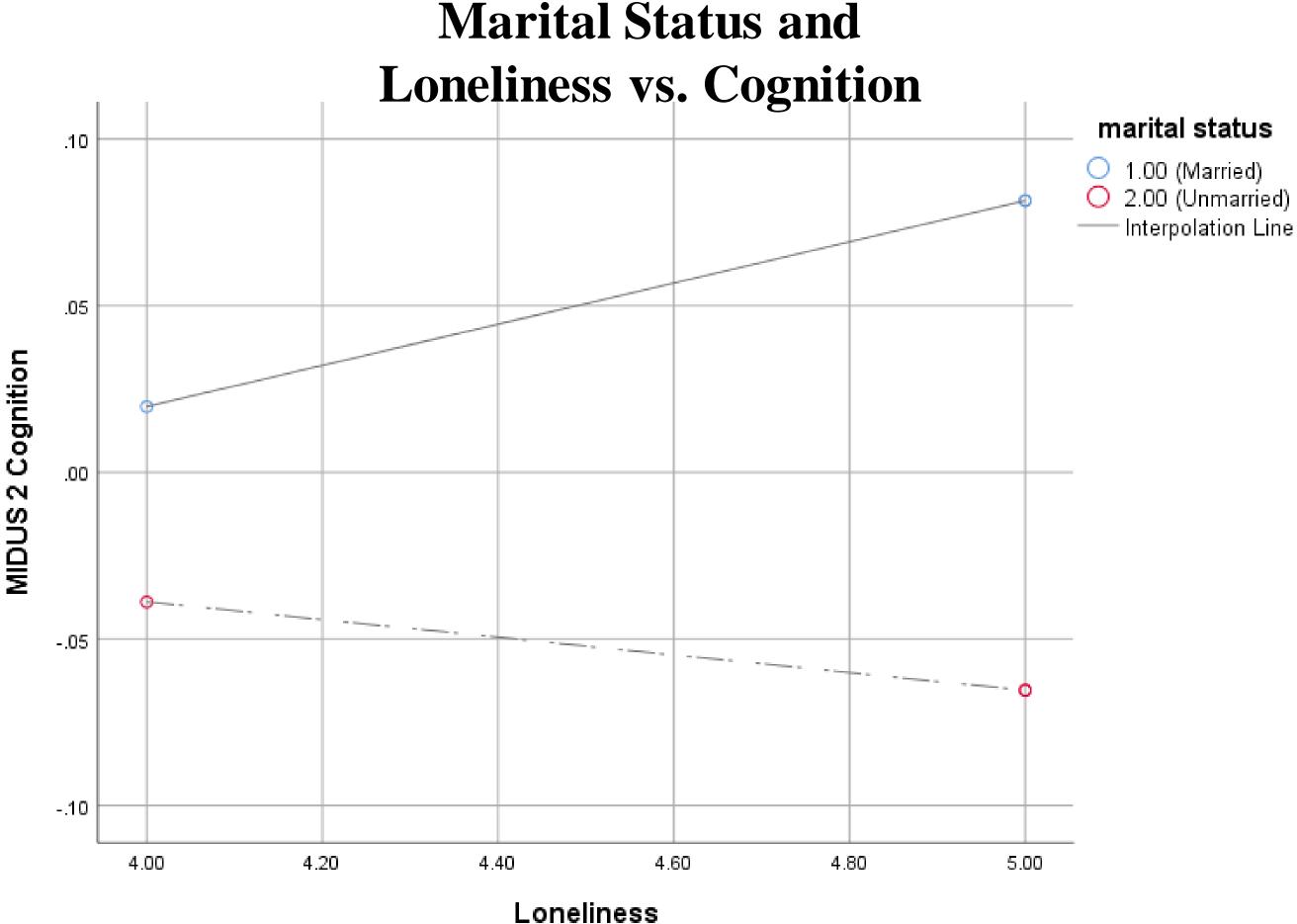
Valid Percent Frequency All the tin 65.7 4666 Most of th 2437 Some of t 7103 A little of

None of th

Direct Effect

- The relationship between marital status and cognition (B = -.088) (P=.008) was found to be statistically insignificant.
- The relationship between loneliness and cognition (B=.025) (P=.149)was found to be statistically significant.

Conditional Effects



• This graphs illustrates that cognition is higher for those who are married and reporting higher loneliness, while cognition is lower for those who are unmarried and reporting higher loneliness.

Methods

Felt Lonely Frequency (30 days)

	Frequency	Valid Percent
me	56	1.2
the time	141	3.1.
the time	454	9.9
f the time	1002	21.9
the time	2924	63.9
	4577	100

- functioning.

Limitations & Future Directions

Lara, E. (2019). Are loneliness and social isolation associated ... - wiley online library. 2. Palmer, B. (2019). The effects of loneliness and social isolation on cognitive functioning in older adults: A need for nuanced assessments. International Psychogeriatrics, 31(4), 447-

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CTBScience

Conclusions

Individuals who were married in the sample had higher cognitive functioning than individuals who were not married. Loneliness was not independently associated with cognitive

The effect of loneliness on cognition appeared to depend on marital status, however, such that married individuals were protected against the negative effects of loneliness.

Examining the relationship between loneliness and cognition, along with marital status and how it may be dependent on this relationship is important to understand how the brain is affected by social relationships.

The current study was cross-sectional, which prevents us from making determinations about causality.

Future studies would benefit from improved measures of loneliness to increase sensitivity to this construct.

Future studies may benefit from accounting for mood in these relationships, as mood and mental health conditions may influence all of the variables examined.

References

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