

Daily Affect and Emotional Tone of Dreams

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BACKGROUND



- Daytime emotions (daily affect) are thought to influence the emotional tone of our dreams that night (i.e., dream affect)¹
- Dreams influence daytime mood²
- Few studies have examined both temporal directions in the same sample
- Do daily affect and dream affect have bidirectional associations?

Participants

- 61 oncology nurses
- 50 participants remembered any dreams during the study
- 268 total days with dreams
- Age: 35 years (*SD* = 12)
- 91.9% female
- 65.6% white
- 77.4% 4-year college degree

Procedures

- Background survey for demographics
- Ecological Momentary Assessments 4 times daily for 14 days to assess dream and daytime affect

Statistical Analysis

Multilevel Modeling to examine bidirectional associations



Figure 1. Conceptual research model

METHODS

Measures

| VARIABLE | EXAMPLE ITEM | SCALE |
|---------------------------------|--|--|
| Dream Recall | “Do you remember having any dreams last night?” | 1 (<i>yes</i>) 0 (<i>no</i>) |
| Emotional Tone of Dreams | [If dreamed last night] “What was the emotional tone of your dream last night?” | 0 (<i>very negative</i>) – 100 (<i>very positive</i>) |
| Positive Affect | “Please rate how well each describes what you feel right now. [Happy, Pleased, Enjoyment/Fun, Joyful]” | 0 (<i>not at all</i>) – 100 (<i>extremely</i>) *composite |
| Negative Affect | “Please rate how well each describes what you feel right now. [Tense/Anxious, Angry/Hostile, Frustrated, Unhappy]” | 0 (<i>not at all</i>) – 100 (<i>extremely</i>) *composite |
| Covariates | Age, education, gender, race, work schedule, partnered status, parental status | |

Table 1. Chart displaying measures and scales used in analyses

RESULTS

Within-Person (WP) and Between-Person (BP) Associations between Dream Affect and Daily Affect

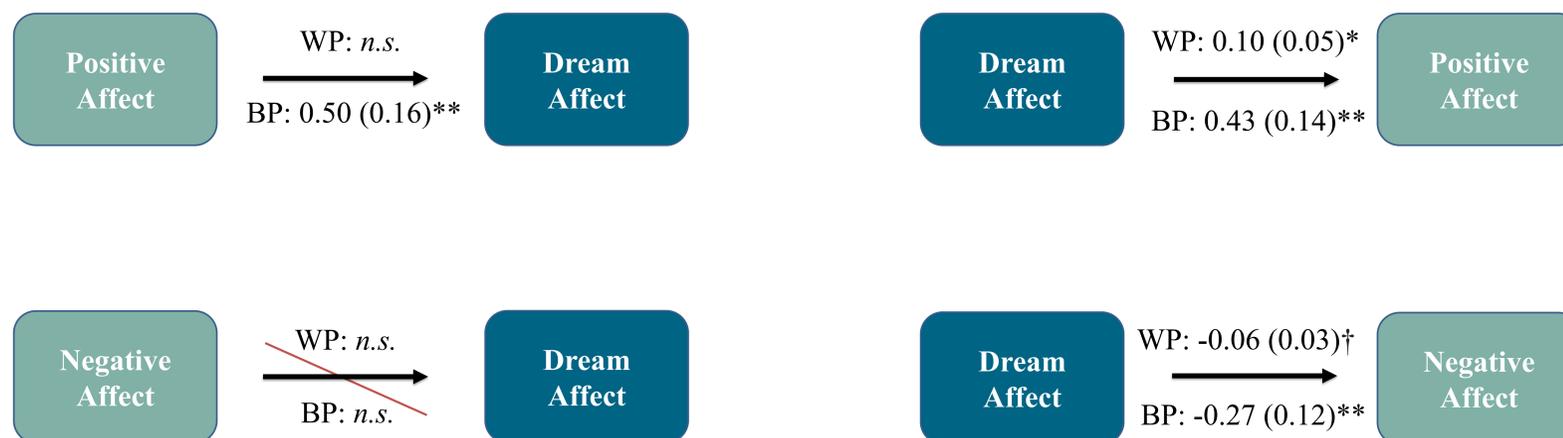


Figure 2. Model representing bidirectional associations between dream affect and daytime affect after adjusting for covariates. Numbers above the arrows represent within-person (WP) associations, while number below the arrows represent between-person (BP) associations. **p* < .05, ***p* < .01, †*p* = .08

DISCUSSION

- Dream affect and daytime affect were associated on average, such that participants who had more positive dream affect overall reported more positive and less negative daytime affect overall
- Dream affect was the antecedent of daytime affect (especially for positive affect), rather than vice versa
- Strengths
 - Unique sample of oncology nurses
 - Ecological validity with a daily diary design
 - Use of lagged variables to test two temporal directions
- Limitations and future directions
 - Lack of generalizability; test with larger and more diverse samples
 - Are emotions closer to sleep are more strongly associated with dream affect? → More precisely-timed affect interventions