Behavioral Approach to Improve Insomnia in Older Adults

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Practice Concern/ Needs Assessment

- Insomnia is a common problem in older adults \bullet (Sateia et al., 2017).
- Approximately 35 to 50 % of the adult population \bullet have some symptoms of insomnia (Sateia et al., 2017).
- Insomnia symptoms are present in as many as 65% of individuals 65 years of age or older (Sateia et al., 2017).
- Older adults with insomnia may experience daytime fatigue, low energy, difficulty to concentrate, disturbance of attention and memory, daytime sleepiness, and irritability (Sateia et al., 2017).
- Insomnia can lead to cognitive impairment, slowed response time, increased risk for falls, depression, and decreased quality of life (Sateia et al., 2017).
- Insomnia is associated with increased utilization of health care resources, lower work productivity, and a higher rate of automobile accidents (Wade, 2010).
- Direct medical costs of insomnia have been estimated to be as high as U.S. \$13.9 billion annually (Wade, 2010).
- Successful treatment of insomnia in older adults \bullet may provide relief of symptoms and promote an optimal physiologic and functional status as well as emotional wellbeing (Qaseem et al., 2016).

PICOT Question

Practice Question

For adults ages 60 and older, will cognitive behavioral therapy compared to pharmacologic therapy alone improve quality and quantity of sleep, and insomnia-related daytime impairments over a 6-month period?



Literature Review

Evidence

- **Databases:** CINAHL, MEDLINE, Ovid Nursing Database, and Cochrane Library.
- Search results yielded 31 articles from CINAHL, 33 from MEDLINE, 34 from Ovid, and 72 from Cochrane Library.
- **Keywords**: insomnia, sleep disturbance, older adults, elderly, treatment approach, primary care, and guidelines.
- **Inclusion criteria:** peer reviewed articles written in English, written between 2010 and 2018.
- **Exclusion criteria:** the review excluded articles that did not address primary care, improvement of quality of life, and healthcare cost and utilization.
- Levels of evidence: Eight level one (I) and level two (II) articles of metaanalysis, systematic reviews or randomized controlled trials were selected.
- **Summary of the Literature:** The review of the literature suggests that cognitive behavioral interventions are an effective treatment for adults with chronic insomnia, can positively affect cognitive function, and are associated with a significant decrease of estimated healthcare costs (Trauer et al., 2015).

EBP Guidelines

- The American College of Physicians recommends the daily use of cognitive behavioral therapy (CBT-i) as first line treatment for insomnia (Qaseem et al., 2016).
- To identify older adults with insomnia, patients should be asked about difficulty with sleep initiation, duration, consolidation, or quality that occurs despite adequate opportunity for sleep (Sateia et al., 2017).
- CBT-i for insomnia involves a combination of cognitive therapy, behavioral interventions, and educational interventions, and guides patients through a series of changes in sleep-related behaviors through stimulus control, sleep restriction, sleep hygiene, and relaxation therapy (Trauer et al., 2015).

Theoretical Framework

Johns Hopkins Nursing Evidence-Based Practice Model



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Implementation

Translation

Stakeholder education

Present the benefits of CBT-i to clinicians, patients, family and caregivers. In-service presentation to introduce the elements of CBT-i and recommended interventions.

Baseline data collection

Collect data on patient quality and patterns of sleep and insomnia-related daytime impairment symptoms.

Treatment/Recommendations

Two to six weekly sessions of cognitive behavioral therapy.

Evaluation Plan

- Assess patient quality and quantity of sleep using the Pittsburg Sleep Index Questionnaire once a month.
- Assess patient satisfaction with results using the Insomnia Treatment Acceptability Scale.
- Collect follow up data monthly for 6 months.
- Compare baseline to post-treatment data using data analysis.
- Report results to stakeholders.
- Continue CBT-i for as long as needed.

References

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Acknowledgements

- I would like to thank:
- My husband and family for their support
- University of Houston CON faculty and staff
- Good Samaritan Foundation



