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Kimberly Morrow University of St. Augustine for Health Sciences, k.morrow@usa.edu

Karen Aranha University of Texas Medical Branch, kaaranha@utmb.edu

Angela Blackwell University of St. Augustine for Health Sciences, ablackwell@usa.edu

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Examining the Efficacy of Yoga Nidra on Sleep Quality with Persons with Parkinson's Disease (PwPD)

Kimberly Morrow, RYT; Karen Aranha, PhD, OT; Angela Labrie Blackwell, PhD, OTR

Background

- Non-motor sleep issues in the Parkinson's Disease (PD) population are correlated with decreased quality of life (QOL) and well-being (Suzuki, 2020).
- Poor sleep management in this population of community dwellers impacts all aspects of daily life and increases caretaker burden.
- PwPD frequently report a lack of support in addressing sleep issues and resort to experimenting with over-the-counter sleep aids (Ornelas et al., 2023).
- PwPD need a nonpharmacological and holistic approach that is safe and effective (Ornelas et al, 2023).
- The efficacy of Yoga Nidra as a nonpharmacological intervention is reported for the general population and some sub populations (Pandi-Perumal et al., 2022).
- Yoga Nidra is a form of profound relaxation in which the individual experiences a state of deep rest (Hébert & Nazari, 2020).
- There is a lack of knowledge on the efficacy of Yoga Nidra in improving sleep quality among PwPD.

Research Question (RQ)

RQ 1: Is Yoga Nidra beneficial for PwPD to improve sleep quality and management? RQ 2: Would 3x/week, of 1-hour sessions improve quality of sleep with PwPD?

Hypothesis: Persons with PD will better manage sleep and have a better quality of sleep with Yoga Nidra.

Theoretical Framework

Occupational Adaptation was utilized as a framework to guide the occupation of sleep to gain control and promote independence in desired functional tasks (Schkade & Schultz, 1992).

A Mixed Methods Pilot Study

Participants

female, 4 males).

Study protocol

The study spanned 5 weeks, which proceeded as follows:

- Week 1: Participants received orientation to study, initiated sleep logs, completed PDSS, and participated in semi structured interview.
- Week 2-4: Participants completed Yoga Nidra for one-hour 3x/week and continued weekly sleep logs.
- Week 5: Participants turned in sleep log, completed PDSS, participated in semi structured interview, and received gift card.

Data Analysis

- study audit.

Qualitative

structured interviews and sleep logs: Use of sleep aids

- Decreased use of items to fall asleep Hallucinations
- Decreased false perceptions during sleep

Quality of Life (QOL)

Quantitative

The following emerged from PDSS analysis:

Significant improvement inferring less sleep disturbances

Methodology

• Quantitative: Parkinson's Disease Sleep Scale (PDSS) (Chaudhuri et al., 2002) • Qualitative: semi structured interviews and sleep logs

• N= 5 community-dwelling adults ages 50-85 years with PD diagnosis (1

• Quantitative: Analyzed pre and post PDSS

- Qualitative: Analyzed pre and post semi-structured interviews and sleep log (5 weeks). Used open coding, memoing, fracturing the
- data. Examined emerging themes and trends (Dillaway et al., 2017). Established reliability of qualitative data by using member checking, peer review, and

Results

The following themes emerged from semi

Increased sense of life satisfaction

RQ 1

Participants report higher QOL in semi structured interviews.

Due to small sample size Ο and fidelity of practice, results are not conclusive.

RQ 2

- Further research required to accurately answer this question.
 - Dosage effective for 2 Ο participants who had significantly improved sleep quality scores.

Overall, participants reported improvement in sleep quality and sleep hygiene protocols and would like to continue this practice Hawthorne Effect

- Press for mastery in occupation of sleep Strengths
- quality
- site.
- duration

Limitations

- Limited duration of intervention
- maintenance of sleep logs
- Uneven male/female participation
- disease

- For more conclusive information

 - management.
- yoga therapists.

Discussion

• Provided PwPD a nonpharmacological, holistic intervention to increase sleep

 Enhanced overall knowledge of Yoga Nidra as an intervention to PwPD at capstone

• Increased confidence in the legitimacy of Yoga Nidra within PwPD population • Replicable study design for a longer

• Small sample size limited quantitative analysis to descriptive measures only Participant commitment to frequency and • Homogeneity of participants –stages of

Implications for OT practice and research • Replicate with a larger sample size • Use of technology for more objective and reliable data on sleep quality and

• Based on perceived benefits of a body-mind exercise it has the potential to be used as an ancillary intervention with certified OT –

