

Predicting Health Outcomes And Occupational Limitations of Caregivers' of Veterans with PTSD and mTBI: A Comprehensive Approach

Dominik Attila Stopp, OTD/S, Dr. Michael Ang, OTD, OTR/L, Dr. Madison B. Harris, OTD, OTR/L West Coast University, Center for Graduate Studies, Department of Occupational Therapy





DCE Site

Program Name: OperationMEND

Location: UCLA campus, Westwood Plaza, Los Angeles **Program Duration**: Dual-phase model consisting of:

Brain1 (1 week)

•Brain Intensive Treatment Plan (Brain ITP) (2 weeks)

Participants: Veterans with mTBI and PTSD and their caregivers Services Offered:

- Therapeutic interventions led by a multidisciplinary team (Neurology, Psychology, Occupational Therapy, Nutrition, Eastern Medicine)
- Reconstructive surgeries
- Cognitive skill training
- Peer support sessions
- Mindful movement practices
- Art therapy

Occupational Therapy Sessions:

- Sleep Hygiene 101 and 102 (developed by the capstone student)
- Wellness Recovery Action Plan
- Sensory Strategies for Self-Regulation
- Change in Roles
- Social and Leisure Participation
- Exercise After Injury

Summary of Needs Assessment

Aim: Identify key areas for improvement at OperationMEND and address them through the capstone project.

Key Areas Identified:

Identification of Caregivers' Occupational Limitations:

- Understand specific occupational needs of caregivers through analysis of past assessments.
- Inform development of future interventions to address caregivers' challenges effectively.

Development of Sleep Hygiene Training Content:

 Develop two one-hour long sleep hygiene training materials for implementation in future group sessions.

Addressing Ambiguity Between Psychology and OT **Departments**:

 Clarify roles and responsibilities between departments to avoid duplicated efforts and confusion among participants.

Literature Review

Challenges Faced:

- Caregivers of veterans with mTBI and PTSD face role strain and overwhelming responsibilities, impacting their physical and mental well-being (Malec et al., 2017)
- Neglecting self-care needs worsens occupational challenges, leaving caregivers feeling isolated and unsupported, often leading to financial problems (Malec et al., 2017; Rady, Mouloukheya & Gamal, 2021). **Benefits of Caregiver Training:**
- · Interventions improve quality of life, reduce stress levels, and enhance cognitive functioning.
- It is crucial for alleviating perceived burden and enhancing support for caregivers of veterans with mTBI and PTSD (Sanjuan, Navarro & Calero, 2023; Malec et al., 2017).

Learning Objectives

By the end of 14 weeks, the doctoral student will:

- Analyze and select data collected from a variety of assessments to identify specific caregiver needs
- Develop a comprehensive Sleep Hygiene Training Program
- Improve leadership and effective interdisciplinary communication skills

Project Description

Objective: Investigate mental and physical health's impact on caregiver burden and occupational limitations among veteran caregivers.

Methods: Developed research questions and Null Hypotheses to examine predictive relationships between VR-12 and ZBI scores. Analyzed PROMIS questionnaires to assess occupational limitations.

Design: Retrospective data, Cross-sectional Procedures: Participants completed assessments measuring mental/physical health, caregiver burden, and daily activity satisfaction. Data collected in person or electronically, and recorded in UCLA's encrypted system, CareConnect. Data Analysis: Utilized JASP for descriptive, correlation, and regression analyses.

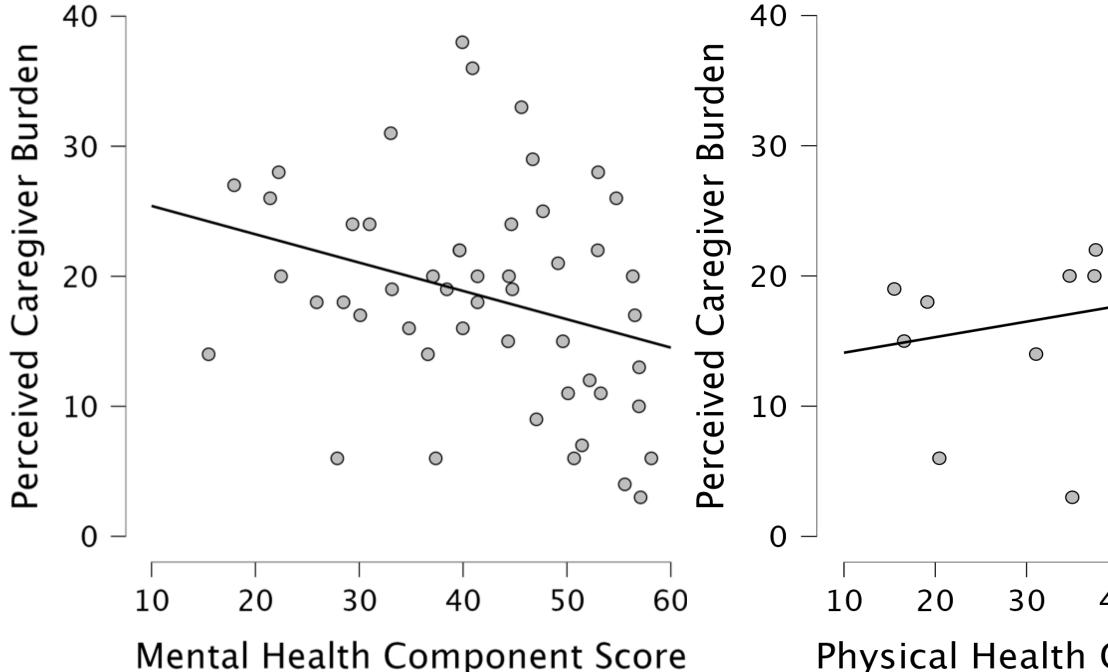
Outcomes

Table 1.

Mental Health, Physical Health, and Occupational Limitations Routines, IADLs,

I signed Cosial	Occupations	(Decrease la se)	(Decree 2 - 1)
Leisure and Social		(Pearson's r)	(Pearson's r)
Participation, and Sleep			
(OTPF-4)			
Routines	Perform daily routines	(r=.633; p<.001)	(r=.260; p>.068)
	Amount of time spent on performing daily routines	(r=.582; p<.001)	(r=.246; p>.085
Care of others	Meet the needs of the dependents	(r=.622; p<.001)	(r=.103; p>.477)
Home establishment and management	Work at home	(r=.592; p<.001)	(r=.168; p>.244)
	Household responsibilities	(r=.712; p<.001	(r=.205; p>.153)
	Household chores/tasks	(r=.692; p<.001)	(r=.158; p>.274)
Leisure Participation	Regular leisure activities	(r=.510; p<.001)	(r=.138; p<.338)
Social Participation	Family activities	(r=.496; p<.001)	(r=.238; p>.097)
	Activities with friends	(r=.400; p<.004)	(r=.281; p<.048)
Rest and Sleep	Sleep Participation	(r=156; p>.286)	(r=138; p>.343)

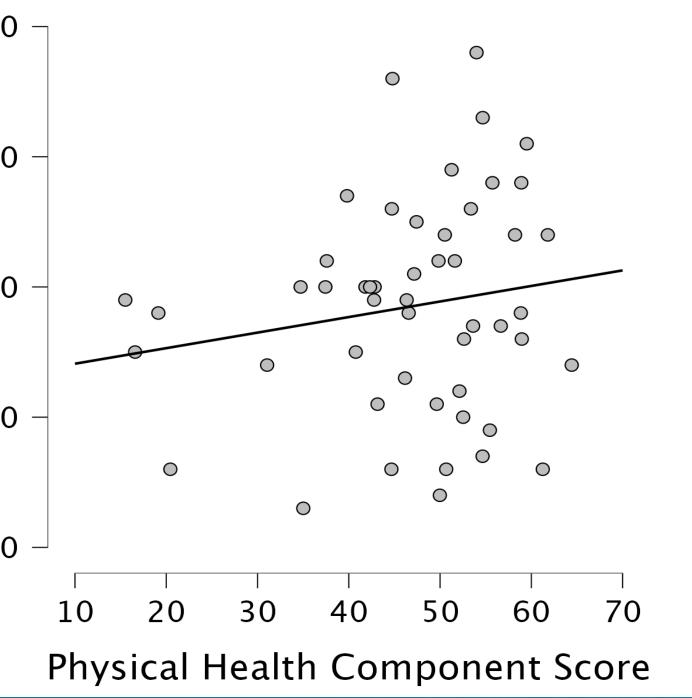
Table 2. Caregiver Burden and Mental Health



Caregiver Burden and Physical Health

Significance of MCS

Significance of PCS



Conclusion

Age and Mental Health: Older caregivers exhibit better mental health outcomes, suggesting age-related resilience or coping strategies.

Racial Diversity: Race does not predict perceived burden or health outcomes, highlighting universal caregiver challenges.

Educational Attainment: Higher education doesn't shield against caregiver burden,

Mental Health and Satisfaction: Positive correlation found between mental health and satisfaction in daily life, emphasizing mental wellbeing's impact on engagement.

Physical Health and Burden: Lack of significant correlation between physical health and burden suggests multifaceted nature of caregiver stress.

Implications to Occupational Therapy

OTs should:

- Focus on mental health interventions to support caregivers in coping with the challenges of caregiving effectively.
- Address diverse caregiver needs, including respite care, social support networks, and caregiver training programs.
- Develop targeted interventions to address specific occupational limitations faced by caregivers
- Encourage collaboration with other healthcare professionals to fostering multidisciplinary approaches to care.

Future Directions

- •Expand sample size for broader applicability.
- •Include caregiving duration data for longitudinal insights.
- •Continue research affiliation for publication opportunities.
- •Investigate resilience and coping mechanisms of older caregivers.

Scholarly Deliverables

Presentation and Sleep Hygiene Training Materials

Acknowledgements

Dr. Madison B. Harris, OTD, OTR/L, Site Mentor Dr. Karli Varnado, OTD, OTR/L

Dr. Michael Ang, OTD, OTR/L, Faculty Mentor Dr. Elize Leizerovich, OTD, OTR/L, DCE Mentor

Sabine Kunrath, Research Assistant, UCLA Health

