biopsychosocial model to present a conceptual framework to test the mental well-being of GRG during the COVID-19 pandemic. In this presentation, we will 1) summarize appropriate literature on GRG; 2) share a COVID-19 health and well-being assessment survey designated for GRG in order to assess their health before and since the COVID pandemic; and 3) propose a conceptual model to investigate and test the protective role of physical activity and GRG's EA in the grandparent-grandchild relationship for the mental health of GRG. In our model, we argue that GRG experience more COVID-19 pandemic-related stress and more depressive symptoms when compared to NGRG. This proposed conceptual model offers one way to test the predictors of depressive symptoms on GRG. Future testing has the potential to shed new light on the development of appropriate intervention programs tailored to maintain the mental health of GRG.

THE ASSOCIATION BETWEEN CAREGIVER EDUCA-TION ON ADULT T2DM AND PATIENT'S OUTCOMES IN COMMUNITY: A SYSTEMATIC REVIEW

Aluem Tark,¹ Jiyoun Song,² Jeong-Yeon Kim,³ So Yeon Park,³ and Kyungmi Woo,³ 1. University of Iowa, University of Iowa, Iowa, United States, 2. Columbia University, Columbia University, New York, United States, 3. Seoul National University, Seoul, Seoul-t'ukpyolsi, Republic of Korea

Introduction Adult type 2 diabetes (T2DM) threatens public health and most patients manage their diabetic condition while in the community. As it is challenging for patients to properly manage diabetes alone, caregiver involvement in T2DM patient care is encouraged. This study aimed to examine the association between caregiver involvement in T2DM education within a community and the patients' diabetes care outcomes (e.g., glycated hemoglobin (HbA1c) level, behavior, or hospitalization). Methods The available scientific literature in PubMed, Cochrane, EMBASE, and CINAHL was searched. The methodological quality of bias was assessed using the Cochrane risk of bias tool. Results A total of 13 out of 741 published studies were synthesized in this review. There is evidence that caregiver involvement in T2DM education is effective in the reduction of HbA1C and BMI, but not necessarily effective in reducing lipids. Study results indicate that caregiver related interventions can significantly improve patient diabetes knowledge, physical activity, and self-efficacy, but results were more mixed regarding medication adherence. Risk of bias analysis classified the majority of studies (77%) to be moderate or high quality. Conclusion This review aimed to explore the association between caregiver involvement in adult T2DM education in the community and patients' diabetes care outcomes. The findings show an improvement in biological and behavioral self-management outcomes with caregivers involved in T2DM education, though no studies examined the direct association between complications or hospital readmission. Future research focused on tailored interventions and longer follow-up of patient outcomes are recommended.

THE EXPERIENCES OF FAMILY CAREGIVERS OF COMMUNITY-DWELLING OLDER ADULTS WITH DEMENTIA IN PROVIDING DAILY ORAL CARE Abby Hellem, Kexin Zhou, Xi Chen,

Jirakate Madiloggovit, Jennifer Nguyen, Rebecca Morris,

and Sato Ashida, University of Iowa, Iowa City, Iowa, United States

Individuals with dementia increasingly rely on caregivers for daily oral care over time. This study explored the experience of family caregivers of community-dwelling individuals with dementia in providing oral care and their interest in caregiver oral education using the concepts of Social Cognitive Theory. Twenty-three caregivers ages 19-80 participated in a semi-structured qualitative interview that also included a structured questionnaire. Majority of caregivers were female (83%) with an average age of 56 years; 29% were spouses. Fifty-four percent of care recipients had natural teeth only, 42% had teeth and dentures, and 4% had dentures only. Caregivers were generally knowledgeable about the importance of oral health, but some expressed a lack of knowledge in how to perform oral care for others. Caregivers reported high levels of outcome expectation, agreeing that providing oral care would improve care recipient's oral health. Caregivers expressed mixed levels of self-efficacy; many cited reduced self-efficacy due to resistance or refusal of care. Quantitative data showed that higher confidence in knowledge and oral care skills was associated with greater confidence in providing oral care (r=0.726, p<0.001). Intent to participate in a caregiver oral health education program was associated with positive outcome expectations (r=0.73, p=0.007) and desire to learn the signs and symptoms of mouth pain and infection (r=0.72, p=0.009). Increasing family caregiver's oral health knowledge and skills, outcome expectations, and self-efficacy to provide care may help improve the oral health of persons with dementia. Additional qualitative and quantitative data and implications for practice will be presented.

USE OF ACTIGRAPHY ON SLEEP OUTCOMES FOR DEMENTIA FAMILY CAREGIVERS: AN INTEGRATIVE REVIEW

Eunae Ju,¹ Melissa Pinto,¹ and Jung-Ah Lee,² 1. University of California Irvine, Irvine, California, United States, 2. University of California, Irvine, Irvine, California, United States

Sleep difficulties are one of the foremost health problems that affect family caregivers of dementia patients increasing their risk for a host of mental health problems and hastening dementia patients' transitions to long-term care facilities. This integrative review aims to describe the objective measurement of sleep quality parameters of family caregivers using actigraphy and how well they are associated with self-reported subjective measures of sleep outcomes and psychological states. A search was performed using PubMed, CINAHL, and PsycInfo including articles from 2011 to 2020. Twenty studies met the inclusion criteria. Five sleep interventions (2 RCTs and 3 pre-post design) were found, including multi-component interventions (e.g., sleep hygiene, walking, day-time light therapy) that used actigraphy and other selfreport measures. Duration of wearing actigraphy (wrist band/watch) varied in studies (3-days to 8-weeks). Most studies reported high accuracy and sensitivity of actigraphy. Sleep parameters measured by actigraphy included 'total sleep time', 'sleep efficiency', 'deep/light sleep', or 'wake time after sleep onset'. In eight studies, sleep parameters measured by actigraphy were significantly associated with sleep outcomes measured by sleep related self-reported scales (Epworth Sleepiness Scale, Pittsburgh Sleep Quality Index,