

Kayli, Neveah, and Arabella

Phase I

Title: How Robots Improve Outcomes in Patients with Dementia

Reference:

Munsterman, E., Petersen, S., & Newcomb, P. (2024). Use of Socially Assistive Robots to Improve Outcomes Among Hospitalized Older Adults With Dementia: A Pilot Randomized Trial.

Journal of gerontological nursing, 50(10), 11–16. <https://doi.org/10.3928/00989134-20240912-04>

Question: How did robots affect the lives of patients with dementia

1. Increased their delirium
2. Amplified aggressive behaviors
3. Lessen need for medications
4. Made them withdraw from social interactions

-Correct answer #3

Page/Paragraph: page 16, paragraph 2

Part II

How Robots Improve Outcomes in Patients with Dementia

I. Introduction (Kayli)-

A. Older adults who have dementia usually have longer hospital stays compared to older adults who do not have dementia

B. Hospitalized dementia patients

1. Experience physical restraints and medications to affect behaviors

C. How PARO helped dementia patients

1. Decreased loneliness
2. Decreased agitation and depression
3. Decreased stress and anxiety
4. Decreased use of psychoactive and pain medications

II. Purpose (Kayli)-

“To examine the use of the PARO robotic pet seal for hospitalized older adults with dementia and compare the effects of PARO use with the visits by a human on various outcomes, including physical restraint use, psychotropic medications, bedside sitters, and delirium.”

III. Methods (Nevaeh)-

A. A pilot study that was an unblinded, randomized controlled trial.

B. Treatment group had three 15-minute visits with PARO, while comparison treatment group had three 15 minute visits with a human visitor

C. Participants were hospitalized patients with dementia

D. Inclusion

1. 65 years of age or older
2. English speaking
3. Admitted to a medical/surgical unit less than 48 hours before enrollment
4. Had a diagnosis of dementia documented by a physician

E. Measurement Tools

1. The MoCA, administered as a screening tool, and CAM, used as an outcome measure.
2. Assessments performed by participants' assigned nurse

F. Data

1. Presence of beside sitter, use of physical restraints, length of visit, reason for potential termination, and use of psychotropic medications was recorded by investigators and research assistant
2. Data was evaluated using Mann-Whitney U test to compare groups

IV. Results- Summarize the results section of the article including a clear and factual representation of the data and description of statistically significant findings.

Tables or charts may be included if appropriate.

A. 38 total participants gathered

1. Human visitor group of 17
2. PARO group of 21

B. Human visitor group

1. 15 medications ordered for 8 participants used to control behavior
2. 443.41 minutes spent in restraints
3. 0 cases where sitter was needed during assessment
4. 14 minutes spent in assessment group
5. 35.7% of delirium assessments positive out of 37 assessments

C. PARO group

1. 8 medications ordered for 3 participants to control behavior
2. 0 minutes spent in restraints
3. 3 cases of needing a sitter during the use of robotic time
4. 10.45 minutes spent in assessment group
5. 7.5% of delirium assessments positive out of 53 assessments

D. 20 participants were initially enrolled in the human visitor group, missed data or incomplete data lead to a final number of 17 participants.

V. Conclusion- Include a clear and factual summary of the key points of this research and any recommendations or implications for future nursing practice.

A. Use of the PARO robots showed significant decrease in the patients use of restraints and psychological medications compared to the human visitor group.

B. There is a need for putting more time and training into the PARO robots that can be done by utilizing volunteers for training.

C. Acute care settings have difficulty creating the time for nurses or assistive personnels to be trained on utilizing the robots.

D. PARO groups showed an overall significant decrease in delirium behavior compared to those in the human visitor group.

**Please keep in mind, while the outline needs to be formatted formally as seen above, feel free to utilize as many supporting ideas and examples as needed under each topic heading.