## 1. Summary of Project Aims

The overall purpose of this evidence-based project was to improve the safety and quality of care for persons with dementia admitted to acute care, through a dementia friendly hospital initiative. The specific aims for this project were to: i) tailor an existing education program around dementia care for nurses and patients technicians, based on the results of focus groups; ii) implement and evaluate a multi-faceted intervention to improve dementia acute care that included staff education, a tailored activities program for patients with dementia in collaboration with occupational therapy, implementation of best evidence for pain and cognitive assessment in people with dementia, and hospital-wide dementia awareness event.

### 2. Conceptual Underpinning

The philosophy of person-centered dementia care underpinned this project. Person-centered care has been recognized as a standard for holistic, best-practice care for people with dementia, a philosophy of care that attempts to understand the world from the perspective of the person with dementia and provide an environment that is supportive of their needs. We used a knowledge translation framework, the PARIHS framework, tailoring the existing evidence to support better dementia care to the local context. Dementia care champions supported the implementation of the project.

This project was a collaboration between a School of Nursing, Occupational Therapy, and an acute care hospital. University Hospital is a 603-bed general medical and surgical facility with approximately 22,810 admissions annually. The research team included the executive director of the Center for Nursing Excellence at University Hospital, a research faculty member with expertise in dementia care from the School of Nursing, an occupational therapist from the School of Health Professions who has also has expertise in care for the elderly with dementia, three nurse educators assigned to the three selected medicine and neurology units who have been identified as dementia champions, and a research assistant. This was a timely initiative, given the establishment of the *Glenn Biggs Institute for Alzheimer and Neurodegenerative Diseases*. University Hospital serves as the primary admitting hospital for these patients. Comprehensive care for persons with dementia and their families would not be complete without ensuring best practice during a hospitalization.

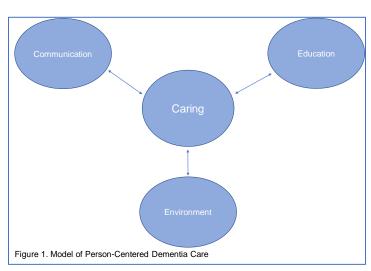
#### 3. Methods and Summary of Findings

A multi-faceted intervention was implemented during the project and each component will be reported on separately, with procedures and results. Prior to initiating the project, the protocol was submitted to the Institutional Review Board and because of the quality improvement nature of the project was deemed to be non-regulated research.

Dementia education program. Prior to undertaking the dementia education program, focus groups were conducted with nurses and patient technicians to gain a better understanding of the needs and perspectives of nursing staff in an acute care hospital relative to caring for a patient with dementia and the extent to which the care they felt that they were able to provide personcentered care. We used a qualitative descriptive design, using thematic analysis to analyze the transcripts from the focus groups. A total of nine focus groups and two individual interviews were conducted between December 2017 and April 2018. Focus groups ranged from two to 12 participants, with an average of five participants per group. There were 24 registered nurses and 11 technicians who participated in the focus groups with 4 groups conducted with the nursing staff, 4 groups conducted with PCTs, and one mixed group. Further, two individual interviews were conducted with PCTs when no other individuals were available to participate in a focus group. Focus groups lasted approximately one hour and the individual interviews lasted 15 minutes. Nurse participants were 80% female, with a range of 4 months to 17 years of experience in their

current position, on average 5 years, with the majority prepared at the baccalaureate level or higher. All nurse participants in the focus groups had previously provided care professionally for patients with dementia and several participants were also caring for a family member with a diagnosis of dementia. PCT participants were 50% female and were in their current position approximately 5 years. Consistent across focus groups and individual interviews was the value of person-centered care and the desire to provide the best care for patients with dementia. Participants described wanting to know the patient as a person: "It's just knowing them. Not

everything would be the same care: it depends on who you're taking care of." The essence of person-centered care as described by the participants was caring and this was at the heart of their work with patients with dementia (Figure 1). Central to caring. participants discussed how communication, education, and the environment served to support or detract from providing person-centered care. Within each theme, sub-themes related to experience and training to care for persons with dementia, personal experience with dementia, identifying creative interventions to



improve care for the patient with dementia communication with the individual, family, and team, and a supportive environment for caring highlighted the challenges and the opportunities in caring for persons with dementia in acute care.

A manuscript describing the results of the focus groups is near completion and will be submitted to "Dementia" by early April.

Based on the gaps in education to provide best practice for dementia care, the curriculum from the Dementia friendly hospital initiative was tailored to meet the needs of the staff of this facility on terms of numbers and available time. The program was delivered by three nurse educator dementia champions between July and December 2019 and is ongoing. Three approaches have been used to deliver the education. For all patient technicians, they will receive the 'Dementia Friends' curriculum, a one-hour interactive presentation that provides an overview of dementia, the experience of living with dementia, with a focus on communication techniques. All nurses working in medical/surgical floors receive a one-hour curriculum that goes into more depth about dementia as well best practice in acute care including cognitive screening. Nurses who are identified to work more closely with patients admitted to acute care with an underlying dementia undergo the above training and also complete the Second Wind Dreams ® Virtual Dementia Tour ® (VDT), a simulated exercise where trained facilitators guide participants outfitted with patented devices that alter their senses to complete common tasks and exercises. The outcomes of the VDT are: i) improved knowledge about the physical and cognitive challenges faced by those living with dementia; ii) improved care for people living with dementia. To date, 61 classes have been held with 366 patient technicians and 841 nurses have completing the education curriculum. This is a much greater than we had projected in the proposal and the training has been adopted by the hospital as an ongoing program to ensure sustainability of dementia care knowledge by the staff. Participants complete a scale developed by Palmer et al. (2014) to measure knowledge (7 items), attitudes/practices (6 items) and confidence (7 items) related to dementia immediately before and after completion of the education program. Data analysis is ongoing so we do not have

results to report here but once these are analyzed, we will prepare a manuscript for publication. We are also capturing mean monthly sitter hours for patients with dementia on the selected units, number of falls, and number of aggressive patient behavioral incidents. These data will be retrieved from the electronic health records on a monthly basis throughout the project and presented as time-series data.

Creation and implementation of the individualized activities program. A diversional activities program was created by occupational therapy and nursing, designed to provide hospitalized patients with varying stages of dementia to participate in meaningful, patient-centered activities to keep them engaged and reduce undesired behaviors. The activities have been coded according to the level of dementia and their appropriateness (Figure 2). Once nursing identifies a patient with dementia who potentially could benefit from the activity program, an order is written by nursing and then occupational therapy evaluates the individual and provides appropriate

activities. Occupational therapy works with patient technicians to engage the patients in the selected activities. The Diversional Activity Program has served a total of 241 since we started tracking the number of participants in September 2019. A pilot study (n=6) was undertaken with the initiation of the diversional activity program to examine its effect on the use of video monitor technicians (VMT) patients with an admitting diagnosis of dementia/altered mental status. There was a 53% lower rate of VMT intervention overall when

diversional activities were used. This provides initial support for the role of the diversional activity program in reduce the need for VMTs, also showing the potential cost saving with the cost of VTM at \$30/day while cost

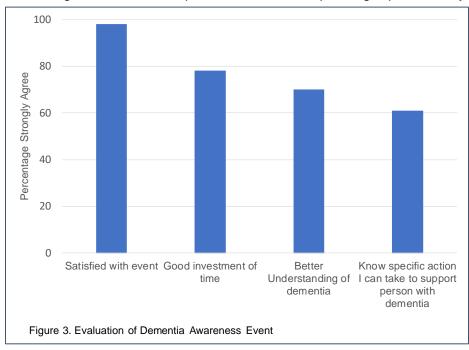


for activities supplies used in this pilot were \$3.75. We are planning to conduct a large-scale study focused on the diversional activity program based on the findings of the pilot reported here.

Hospital-wide dementia awareness event. Two one-half day dementia awareness events were held, one in January 2019 at University Hospital and the second in April 2019 at their second campus, Brady Green. Both events included similar activities with short presentations about Alzheimer's disease and community resources for families living with dementia. At the event at Brady Green which serves a high number of Hispanics with some speaking Spanish only,

presentations were given in both English and Spanish. The events included tables from approximately 15 community

organizations with information available about resources for families livina with dementia. Over 400 participants attended the two events. Many participants completed online training for Dementia Friends during the awareness days. Comments from the events included the importance about learning the resources



available in the community for families coping with dementia, a better understanding of dementia, the importance of the activity program for hospitalized patients with dementia, and the need for ongoing information about dementia and the available resources. Figure 3 presents results of the event evaluation.

Below is an image of a poster that was presented describing the awareness days.



# Enhancing Community Knowledge Through Dementia Awareness Events



Meghan Leibas¹, MSN, RN, CRRN, Charles Reed¹, PhD, RN, CNRN, Elma Fonseca¹, MPA, MSN, CVRN-BC, Sonia Rogers¹, MPA, Allison Hays Lane¹, Carole White², PhD, RN, Sara Masoud², MPH, Jennifer Brackett², MsG



#### 4. Recommendations

The funding has provided an important collaboration between the School of Nursing and University Health System. Through this collaboration, we have been able to secure additional funding from the University Health System Foundation to support the diversional activities program. Further, the collaboration has resulted in University Health System playing a leadership role in Dementia Friendly San Antonio, a designation received by Dementia Friendly America in April 2019.

Recommendations from this project include the importance of gaining an understanding of the context before conducting this knowledge translation project. In conducting the focus groups to understand the perspectives of frontline staff in caring for patients with dementia, we were able to build on their strengths and address their concerns in the education program. By working with hospital management, we were also able to build dementia education into the structure for ongoing education, which will contribute to the sustainability of the project. Importantly we have connected this project with other activities related to dementia care such as training to conduct the virtual dementia tour, highlighting the work of the hospital during a local geriatrics conference, and building synergy between this project and the dementia friendly initiative, of which acute care is a critical partner. We partnered with occupational therapy in implementing this project and are now expanding to medicine. We would recommend inviting a multi-professional team who works with families with dementia from the beginning.

We are continuing to build on the project with a focus on evaluating outcomes including adverse events, length of stay, and qualitative feedback from families on the diversional activities program.