

Project Title

Robot Care-Enhancing Dementia Day Care with Temi (Robot) Assistance

Project Lead and Members

Project lead: Krishnasamy Gopikannan

Project members:

Organisation(s) Involved

Sunlove Senior Care Centres

Healthcare Family Group(s) Involved in this Project

Healthcare Administration, Ancillary Care

Applicable Specialty or Discipline

Healthcare Administrator, Public Health and General Preventive Medicine

Project Period

Start date: Not applicable

Completed date: Not applicable

Aims

- To enhance the quality of care by implementing the use of TEMI (robot) as an assistant in dementia day care centers.
- The project addresses the challenges faced by dementia clients, such as the needs for assistance in daily activities, the importance of a warm welcome upon entering the centre, and the timely administration of medication.

Background

Project introduces TEMI, a versatile and interactive robot. It is programmed to assist clients in various activities, such as engaging in therapeutic exercises, playing cognitive games, and providing reminders for daily routines such as taking of medications.

Methods

See poster appended/ below

Results

See poster appended/ below

Conclusion

The personalized interactions, cognitive stimulation, and social engagement facilitated by TEMI have resulted in increased client engagement and overall well-being. The use of technology to enhance client experiences and address their unique needs reflects the objectives of this award category.

Project Category

Care & Process Redesign

Value Based Care, Patient Reported Experience Measures, Patient Satisfaction

Care Continuum

Intermediate and Long Term Care and Community Care, Day Care

Keywords

Temi robot, AI Assistant, Artificial Intelligence, Dementia, Facial Recognition

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ROBOT CARE-ENHANCING DEMENTIA DAY CARE WITH TEMI (ROBOT) ASSISTANCE

AIM

- TO ENHANCE THE QUALITY OF CARE BY IMPLEMENTING THE USE OF TEMI (ROBOT) AS AN ASSISTANT IN DEMENTIA DAY CARE CANTERS.
- THE PROJECT ADDRESSES THE CHALLENGES FACED BY DEMENTIA CLIENTS, SUCH AS THE NEED FOR ASSISTANCE IN DAILY ACTIVITIES, THE IMPORTANCE OF A WARM WELCOME UPON ENTERING THE CENTRE, AND THE TIMELY ADMINISTRATION OF MEDICATION.

OBJECTIVES

- TO ENGAGE THE CLIENTS ACTIVELY IN DIFFERENT ACTIVITIES SUCH AS IN THERAPEUTIC EXERCISES AND COGNITIVE STIMULATION
- TO REDUCE THE WORKLOAD AND HELP OTHER STAFF TO FOCUS ON OTHER CLIENTS OR HIGH-VALUE TASK
- TO BE ABLE TO SUCCESSFULLY IMPLEMENT IN TWO DEMENTIA DAY CARE CENTRES
- TO PROPOSE TO OTHER ACTIVE AGING CENTRES WITHIN THE ORIGINATING INSTITUTION

BACKGROUND

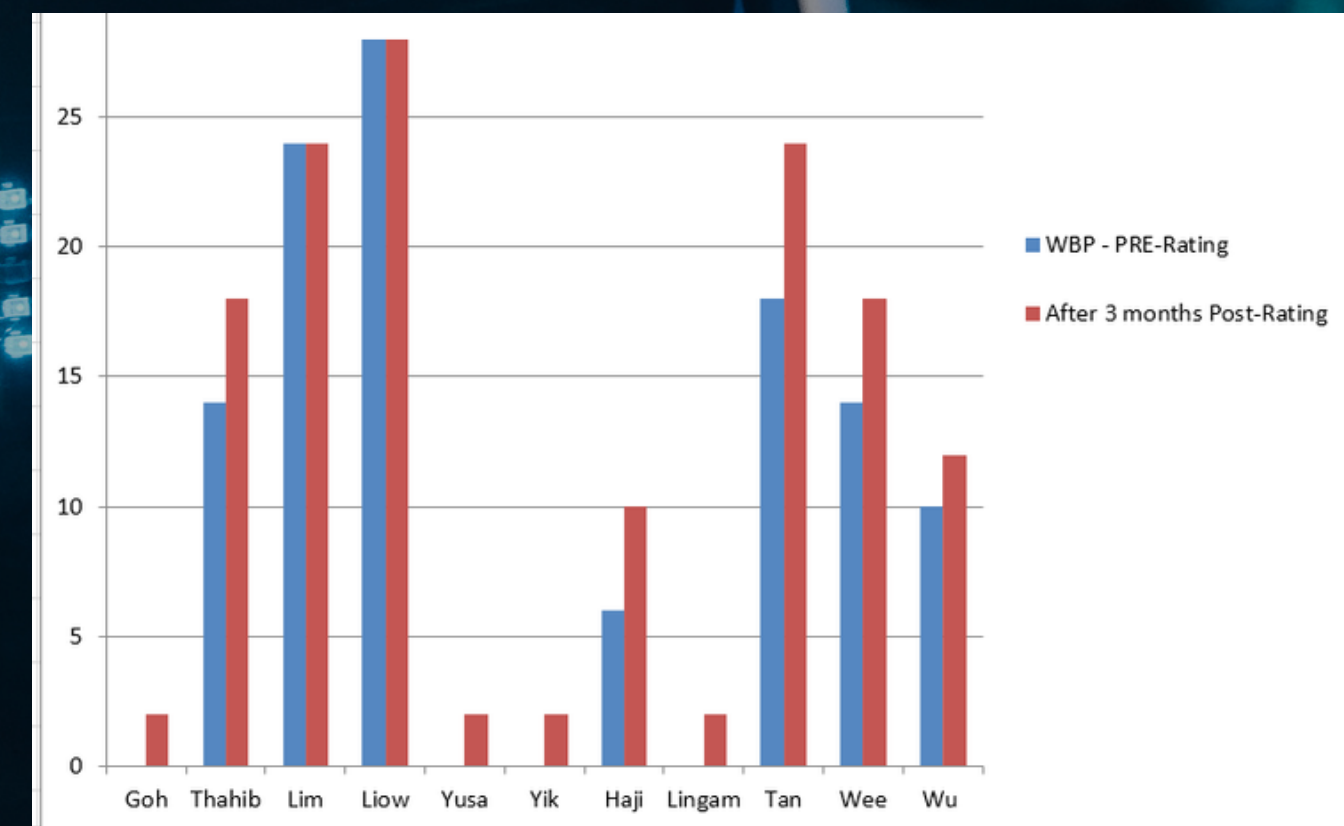
- PROJECT INTRODUCES TEMI, A VERSATILE AND INTERACTIVE ROBOT. IT IS PROGRAMMED TO ASSIST CLIENTS IN VARIOUS ACTIVITIES, SUCH AS ENGAGING IN THERAPEUTIC EXERCISES, PLAYING COGNITIVE GAMES, AND PROVIDING REMINDERS FOR DAILY ROUTINES SUCH AS TAKING OF MEDICATIONS.

METHODS

- STAFFS OBSERVED THE INTERACTIONS AND EXPERIENCES OF DEMENTIA CLIENTS TO IDENTIFY AREAS WHERE PERSONALIZED ATTENTION WAS LACKING
- INVOLVES TRAINING AND COLLABORATION WITH THE STAFF, INCLUDING CARE STAFFS, NURSES, AND PROGRAMME COORDINATOR. THIS ENSURES THAT THE STAFFS ARE EQUIPPED WITH THE KNOWLEDGE AND SKILLS TO WORK COLLABORATIVELY WITH TEMI, ENHANCING CLIENT CARE AND OPTIMIZING THE EFFICIENCY OF CARE DELIVERY.
- BY INCORPORATING FACIAL RECOGNITION TECHNOLOGY, TEMI CAN GREET CLIENTS BY THEIR NAMES UPON ARRIVAL..THIS FOSTERS A SENSE OF FAMILIARITY AND BELONGING, CREATING A WARM AND PERSONALIZED WELCOME FOR CLIENTS. IT ALSO ENGAGES THE CLIENT IN ACTIVITIES AND EXERCISES

RESULTS

- PRE-IMPLEMENTATION DATA WAS COLLECTED ON CLIENT ENGAGEMENT, WELL-BEING, CAREGIVER BURDEN, AND MEDICATION ADMINISTRATION IN DEMENTIA DAY CARE CENTRES.
- POST-IMPLEMENTATION OF TEMI AS AN ASSISTANT SHOWS A SIGNIFICANT INCREASE IN CLIENT ENGAGEMENT, IMPROVED CLIENT WELL-BEING, REDUCED CAREGIVER BURDEN, AND IMPROVED MEDICATION ADMINISTRATION.



PRE AND POST WELL BEING OUTCOME RESULTS



CONCLUSIONS

- THE PERSONALIZED INTERACTIONS, COGNITIVE STIMULATION, AND SOCIAL ENGAGEMENT FACILITATED BY TEMI HAVE RESULTED IN INCREASED CLIENT ENGAGEMENT AND OVERALL WELL-BEING. THE USE OF TECHNOLOGY TO ENHANCE CLIENT EXPERIENCES AND ADDRESS THEIR UNIQUE NEEDS REFLECTS THE OBJECTIVES OF THIS AWARD CATEGORY.