

NeuraHeal: Adaptive AD/ADRD Treatment Software

This project aims to develop a software solution to enhance the care and management of Alzheimer's Disease and dementia (AD/ADRD) patients. The software will serve as an interface between physicians, patients, and caregivers, providing comprehensive and integrated data to inform decision-making and improve patient outcomes. The primary objectives are to prevent cognitive decline, reduce healthcare costs, and improve the quality of life for patients and caregivers.

Key features of the software include integrated data management for lab results, medications, and supplements; advanced cognitive assessment tools; robust care coordination; and tracking of behavioral and environmental factors. It will also provide secure access management and support non-pharmacological interventions, addressing gaps in current dementia care tools. Additionally, NeuraHeal incorporates a patient education module featuring on-demand, micro-learning components. These bite-sized, voice-guided segments offer patients and their caregivers easily digestible information on various aspects of AD, dementia, and related issues, enhancing understanding and promoting active participation in the care process.

The development methodology involves a phased approach: requirements gathering, design, development, testing, pilot implementation, and full-scale deployment. Collaboration with Purdue University will leverage interdisciplinary expertise, ensuring academic rigor and innovative solutions. The project includes continuous user feedback and advisory board guidance to ensure the software meets the needs of healthcare professionals and patients.

Objective and Specific Aims:

- The main goals of the project are to reduce the human burden and healthcare costs associated with AD/ADRD and to improve the quality of life for patients and caregivers.
- Prevent and reverse cognitive decline, where possible.
- Maintain and improve overall health, resulting in better quality of life for the patient and reduced healthcare costs.
- Improve independence and enable patients to live in their homes as long as possible, preventing or prolonging the need for institutional long-term care.
- Improve treatment with data informed decision-making.
- Improve communication between healthcare professionals and patients and their families/caregivers.
- Prevent errors and improve efficiency and quality of care.



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