Behavioral and Psychological Symptoms of Dementia (BPSD)

- Common - 80% of dementia patients
- Agitation
- Aggression
- Disruptive vocalizations
- Delusions
- Hallucinations
- Paranoia

- Associated with worse prognosis, earlier hospitalization, and increased caregiver burden

- Depressive symptoms
- Apathy
- Sleep disturbances
- Wandering or pacing
- Resistance to personal care (bathing and grooming)

BPSD Management Options

- Pharmacological options
  - Adverse effects like sedation
- Music therapy
- Reminiscence therapy
Solution - Happy Times

- A multimedia reminiscence therapy application to reduce BPSD in people with Alzheimer’s

Adding or Creating a New Patient

Main Menu
Create a New Show

Select Images

Finalize
Benefits

- Personalized to the user
- Doesn't require group setting
- Mobile and accessible to rural populations
- Will mitigate negative consequences of BPSD
  - Caregiver stress
  - Healthcare costs

Moving Forward

- Integration with Empatica E4 sensor to monitor user when using the application - IRB pending
- Trial with users to see if using the application affects Alzheimer's patients experiencing BPSD
- Ultimate goal is to create physiologic framework to predict onset of BPSD

References


