

*“This could be the answer to my
problems!”*: Feasibility and acceptability of
ingestible sensors for medication adherence
in dementia

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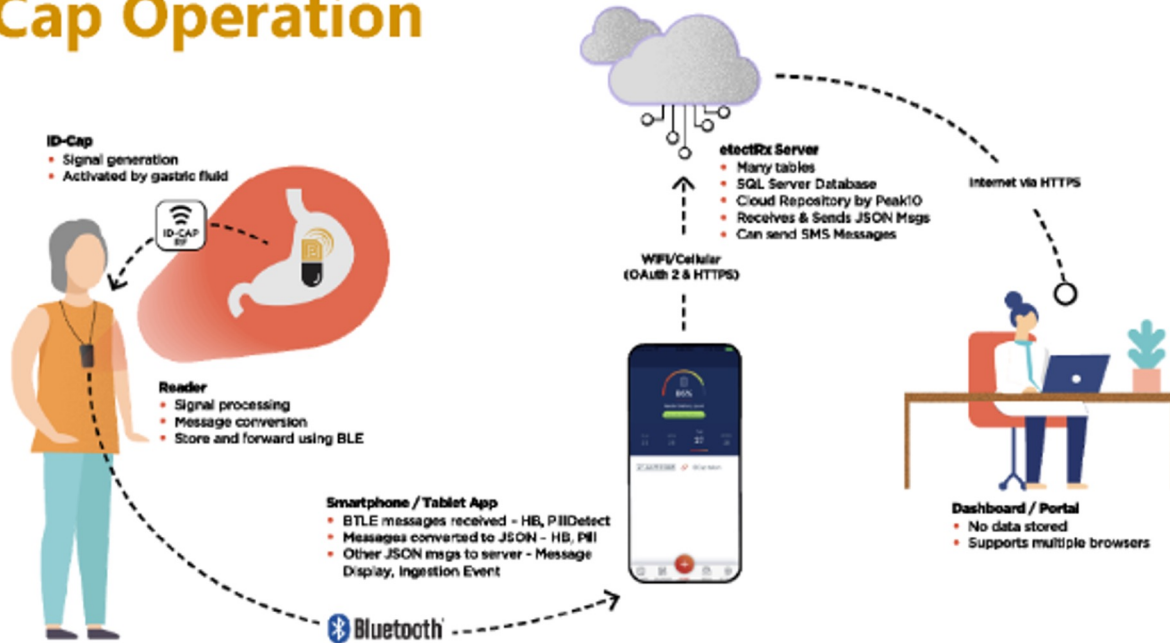
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Background

- Older adults with cognitive impairment can face challenges with medication adherence
- Medication non-adherence leads to higher healthcare costs and higher rates of hospitalizations
- ID-Cap is a digital technology designed to monitor and intervene upon medication adherence

Current ID-Cap Operation

ID-Cap Operation



Objective

To determine the **feasibility** and **acceptability** of a new ingestible digital technology in caregiver and care recipients

Methods

- Population: Older adults 65+ with mild cognitive impairment
- Recruitment via flyers and community health events
- 30 minute semi-structured interviews
- Unified Theory of Acceptance and Use of Technology
- Framework analysis to identify emerging themes

Results

- Most expressed openness to using ID-Cap while others had safety and ethical concerns
 - "And I have no problem with the fear of being tracked. If they track me, they're going to get bored"
 - "When I saw that thing hanging on the wall, I thought, "This could be the answer to my problems""
 - "My only concern is the health side of ingesting something else."
- Both expressed willingness and ability to receive smart device notifications
- Small pill size, portability, endorsement by clinicians, and additional clinical studies to support safety would enhance uptake

Significance & Next Steps

- Care recipients and their caregivers were willing to use the ingestible sensor
- We plan to use these findings to plan a clinical trial that can address concerns surrounding safety, privacy, and ease of use.

Thank You

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