

Hepatic Encephalopathy App for Liver Disease (HEALD)



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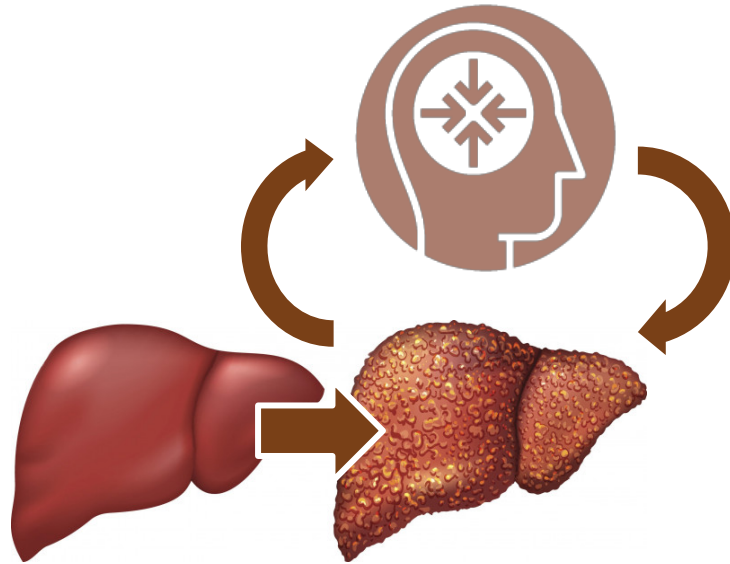
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The Problem



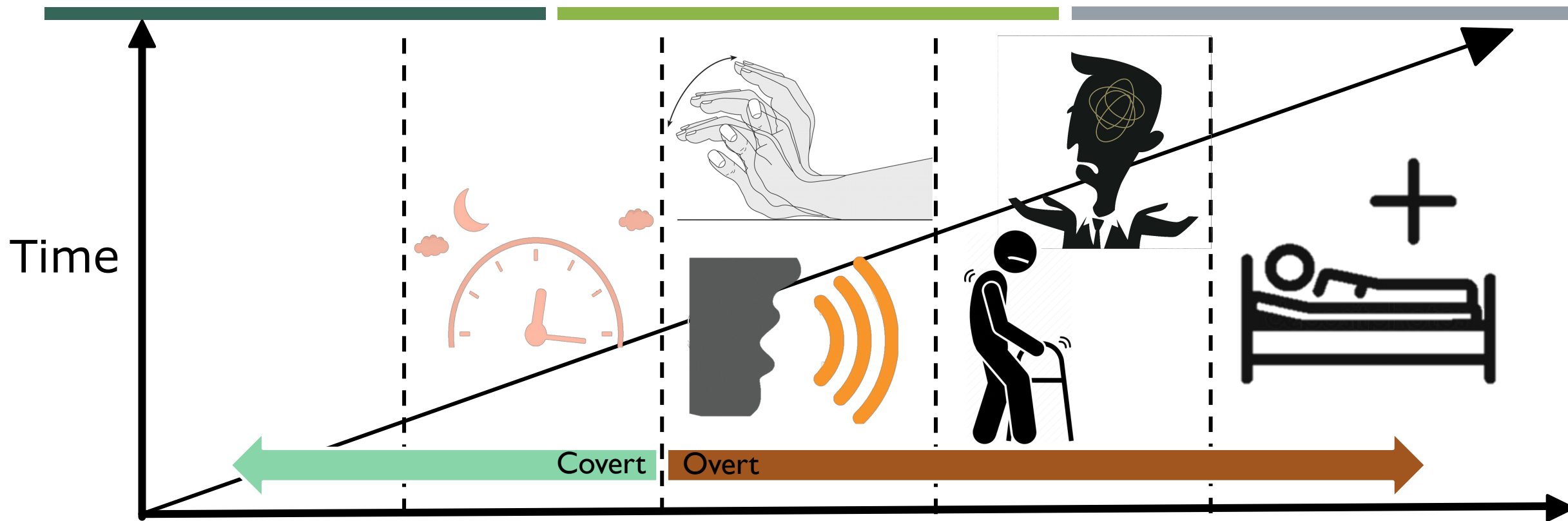
Patients with
cirrhosis and
their caretakers



Neurocognitive
abnormalities due to
toxin accumulation



Cause of mortality
and loss of functional
independence



Minimal

- No visible neurological symptoms
- Require testing to detect

Stage 1

- Mild confusion, agitation
- Decreased attention
- Sleep disturbance

Stage 2

- Disorientation
- Lethargy
- Asterixis (hand flapping tremors)
- Slow speech

Stage 3

- Somnolence
- Marked confusion
- Slurred speech
- Incoordination

Stage 4

- Complete unresponsiveness
- Coma

Stages of Hepatic Encephalopathy



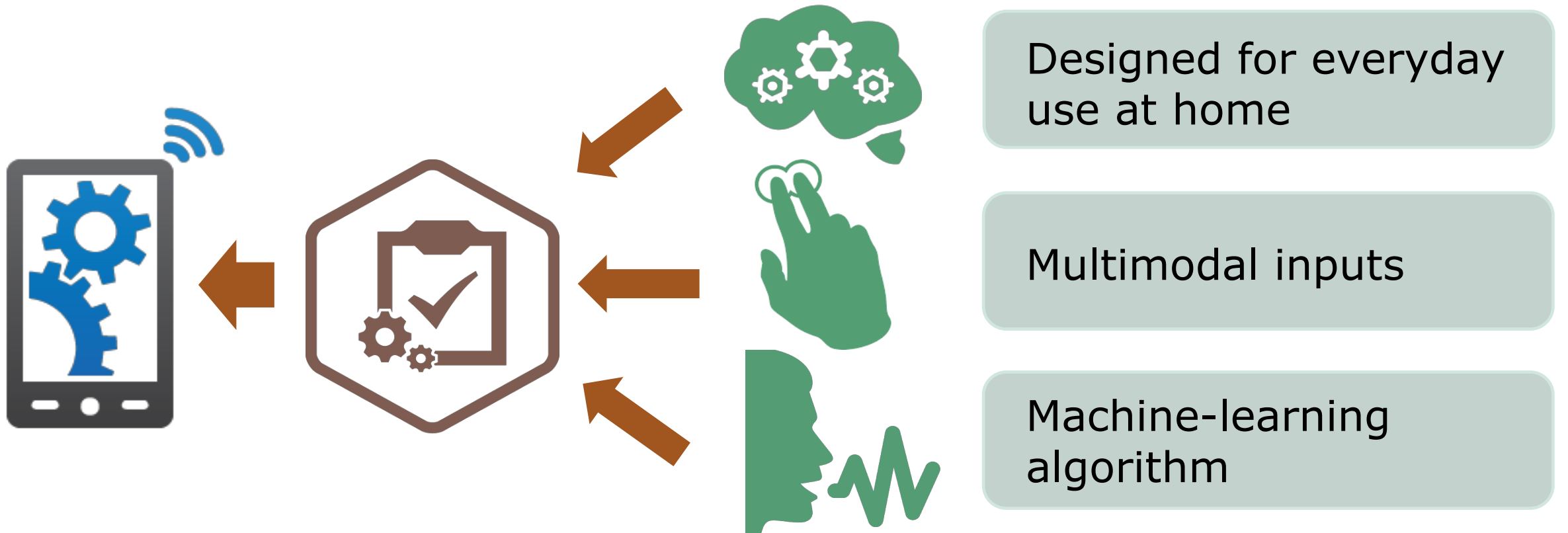
- HE is the second most common preventable cause for cirrhosis-related hospital admissions
- Frequent readmissions are associated with increased mortality and morbidity



- Delayed treatment of HE can lead to progressive and irreversible cognitive decline

The Solution

A diagnostic and monitoring tool for hepatic encephalopathy



Our solution addresses the unique challenges of managing HE in the outpatient setting

Greater accuracy achieved with multimodal inputs

Emphasis on tracking of encephalopathy progression

Maintain patients' cognitive function and independence at home

Dynamic and timely outpatient medication adjustment

Individualized tailored therapy based on longitudinal data

Our solution will be validated with a prospective clinical trial comparing our tool to standard outpatient practice on the following measures

