



Princess Sumaya  
University  
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# BMO: A Smart Pill Dispenser

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## Introduction

According to the World Health Organization (WHO), medication non-adherence is a widespread issue that affects a significant percentage of patients with chronic conditions. BMO, our smart pill dispenser, is here to revolutionize medication management. With intelligent reminders, mobile app integration, and customizable features, BMO ensures you never miss a dose. Experience seamless communication with healthcare providers, contactless dispensing, and temperature monitoring. Take control of your health with BMO, your ultimate smart pill companion.

## Design

Figure 3 shows BMO's circuit design

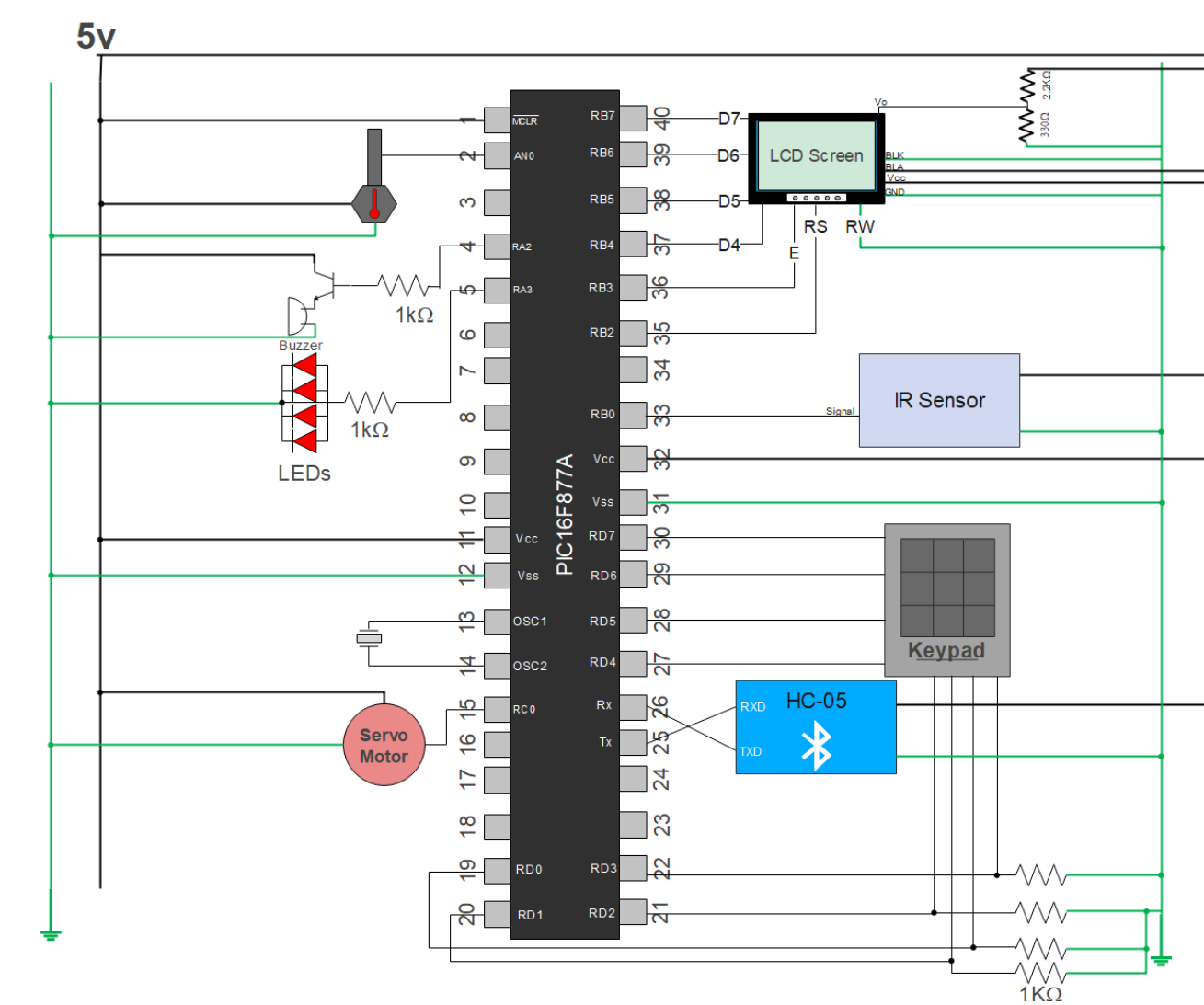


Figure 3: Circuit Design

## Design

The provided flowchart outlines the operation of our revolutionary smart pill dispenser, which is specifically created to improve medication management:

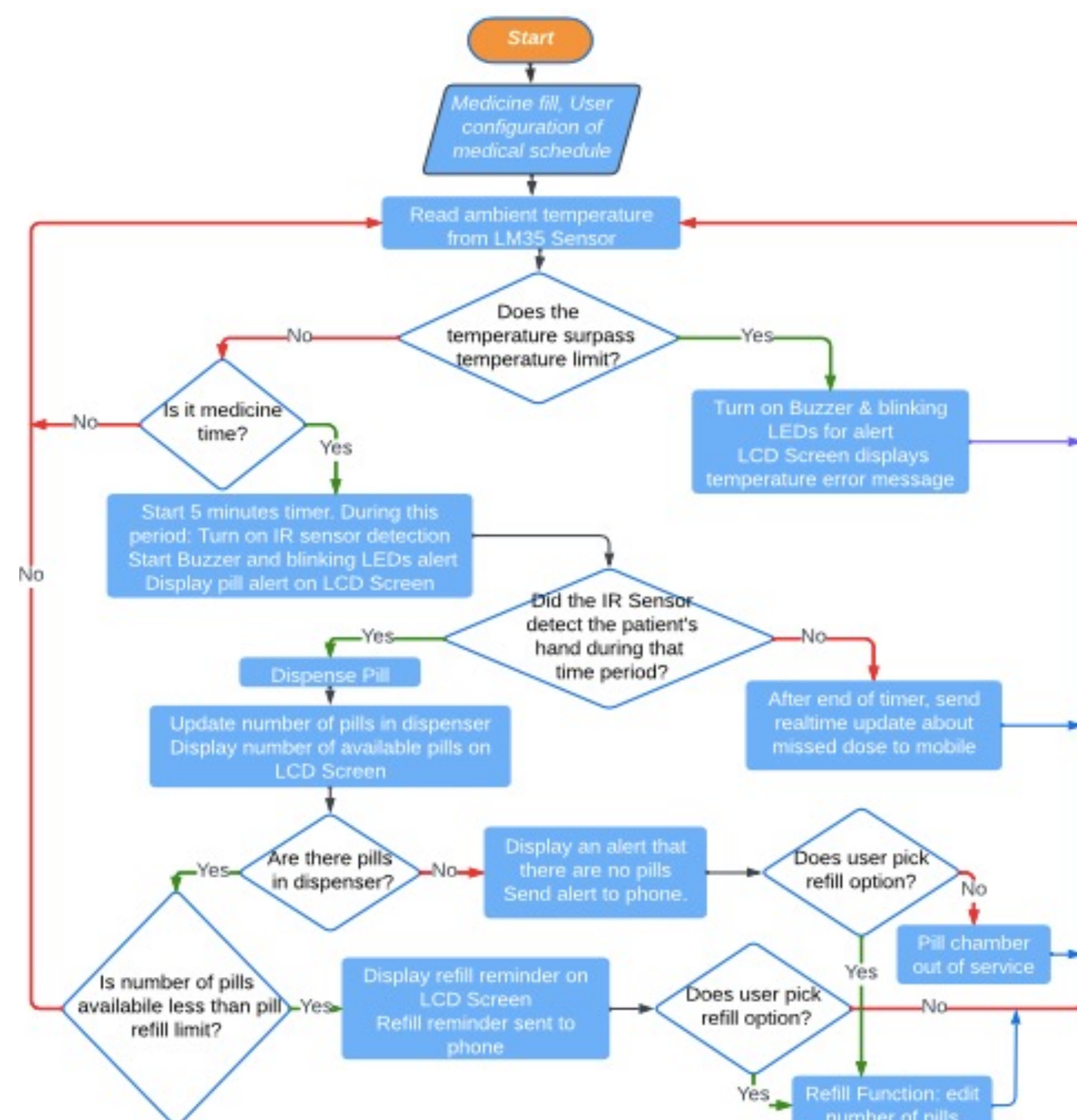


Figure 1: Flowchart

And the following flowchart represents the configuration function of our smart pill dispenser, allowing users to personalize their medication management:

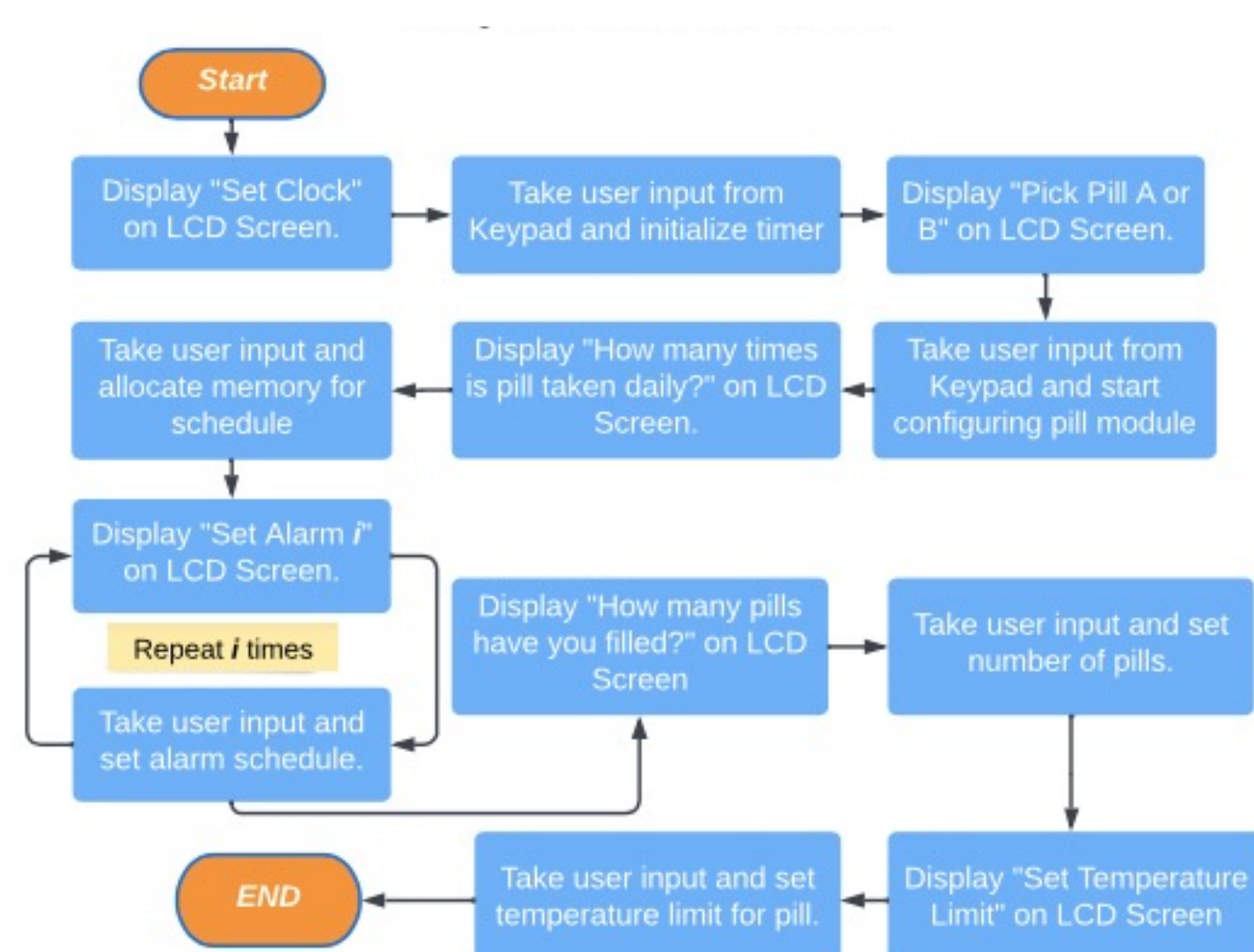


Figure 2: Configuration Function Flowchart

## Results

Our smart pill dispenser, BMO, incorporates advanced components for exceptional functionality. Here are the key drivers behind its performance:

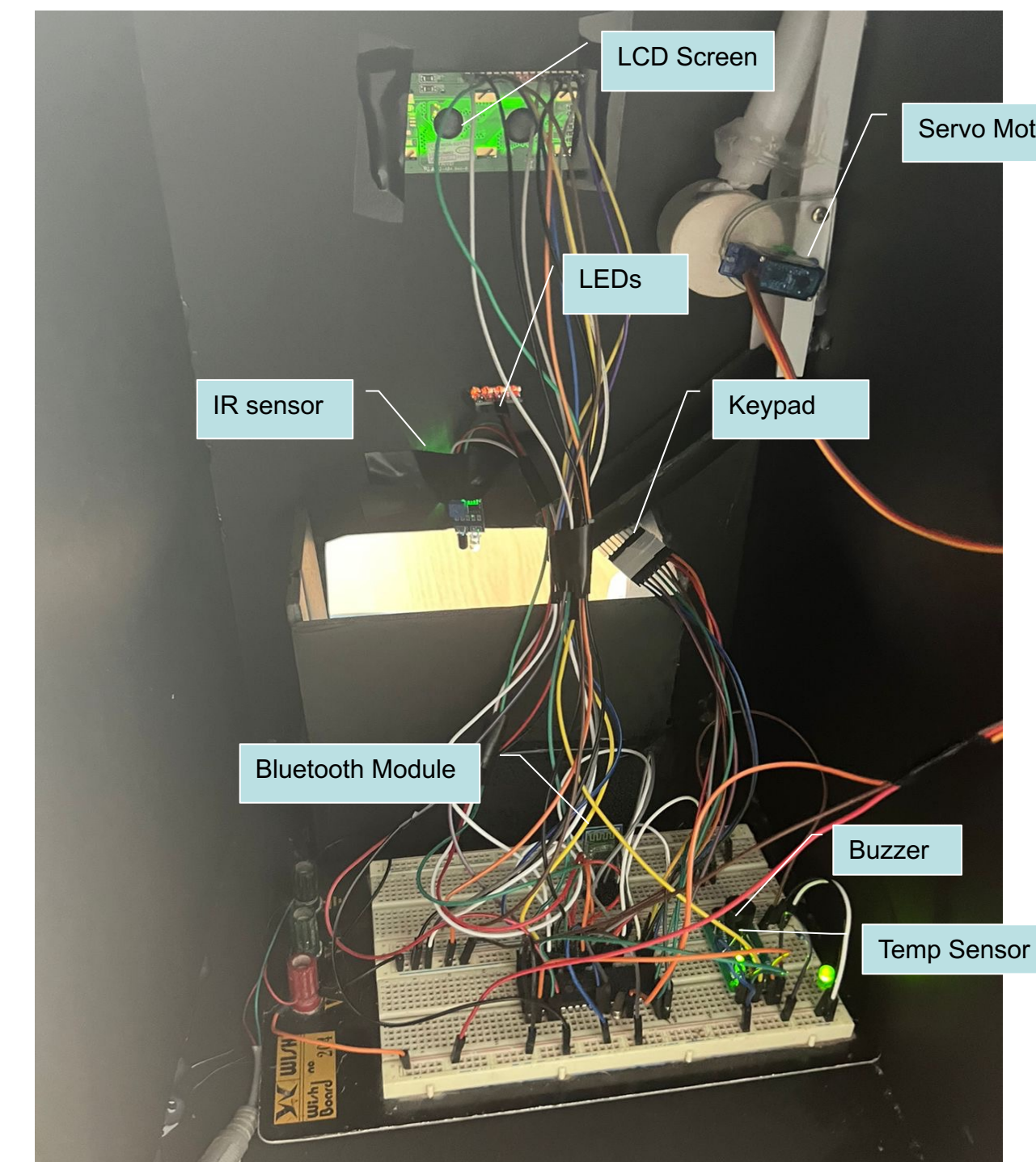


Figure 4: Configuration Function Flowchart

The final shape of our smart pill dispenser, BMO, is sleek, compact, and visually appealing, offering patients an excellent and well-designed medication management solution.



Figure 5: Final Design of BMO

## Conclusion

In conclusion, our innovative smart pill dispenser, BMO, represents a significant advancement in medication management. By addressing the limitations of traditional pill boxes and incorporating advanced features such as automated reminders, temperature monitoring, and mobile app integration, BMO offers a comprehensive solution for enhancing medication adherence. With its user-friendly interface and sleek design, BMO not only improves patient well-being but also reduces healthcare costs associated with medication non-adherence. Our project demonstrates the potential of technology and innovation to positively impact healthcare outcomes, providing a valuable tool for patients, caregivers, and healthcare providers.