

## Improving Self-Management and Treatment Adherence in Patients Living with HIV in Rhode Island



Interactive  
Behavioral  
Coaching



Remote  
Monitoring

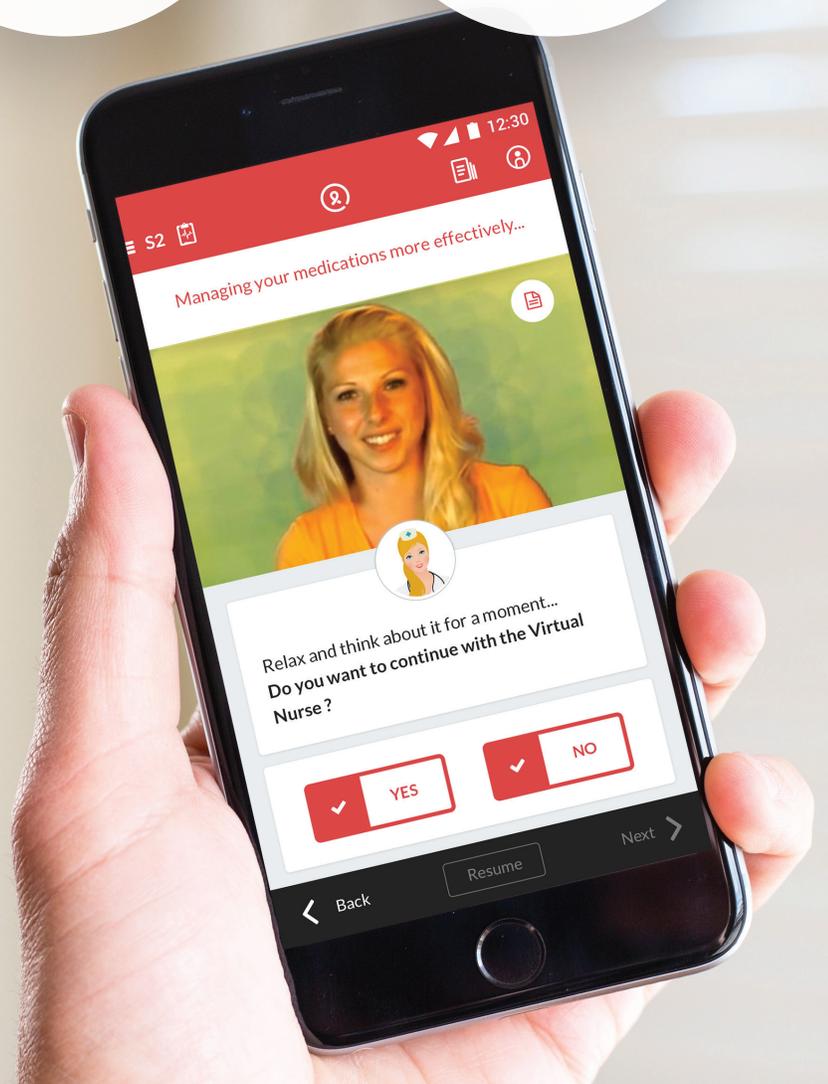


Personalized  
Support

**TAVIE<sup>RX</sup> HIV** is the first clinically validated **VirtualNurse<sup>TM</sup>** platform to help patients living with **HIV** learn the skills and self-efficacy to manage their disease and adhere to their antiretroviral therapy.

**TAVIE<sup>RX</sup> is a comprehensive intervention intended to:**

- ★ Improve patient experience
- ★ Increase treatment adherence
- ★ Optimize clinical outcomes





## PROJECT GOAL

Ensure access to existing and emerging HIV/AIDS treatments accessible and delivered according to the established guidelines and recommendations. The intervention is intended to enhance Rhode Island's ability to improve clinical outcomes for the selected HIV patient population. Furthermore, the intervention improves patient communication and coping skills so that adherence to appointments, medications and other polymorbidities/conditions can be handled effectively.

## Primary Objective

The primary objective of this project is to integrate and strengthen the HIV Continuum of Care of the Ryan White Program and support Healthcare Providers and Case Managers with the patient population in the linkage, retention and re-engagement phase. The TAVIE-HIV mobile App will be provided to 599 Ryan White Part B patients that are most at risk and in need of this support (300 smart phones with internet access shall be given to patients who do not have one).

The project will measure the impact on adherence, monitor the viral load and evaluate the perceived value by patients at different stages of the care continuum.

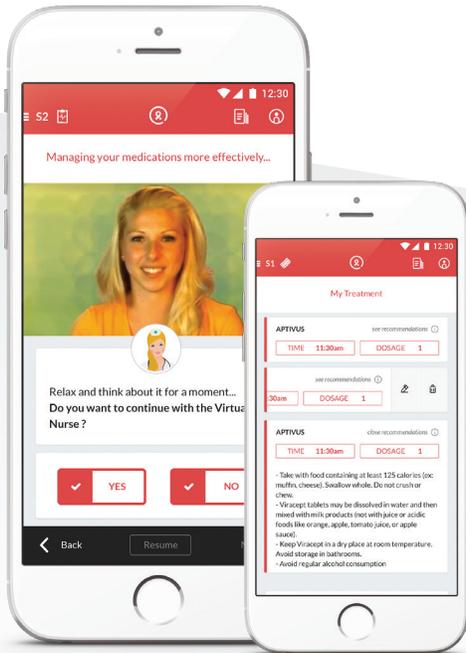
## Secondary Objective

The secondary objective is to evaluate the perceived value by the care team, including Case Managers, in building a sustainable relationship with their patients.

## HIV Care Continuum

The series of steps a person with HIV takes from initial diagnosis through their successful treatment with HIV medication.






## TAVIE<sup>RX</sup> Virtual Nurse Coaching

With the **VirtualNurse™** coaching, patients will learn the skills and self-efficacy needed to adhere and persist with their treatment.

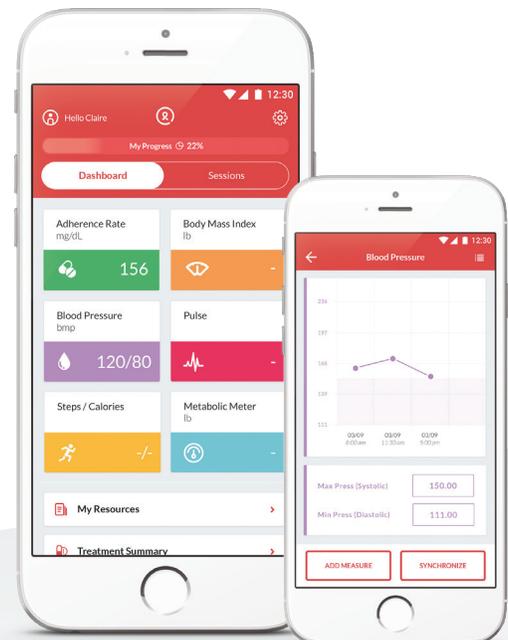
- ★ Motivation and side-effect management
- ★ Emotional management and problem solving
- ★ Communication skills

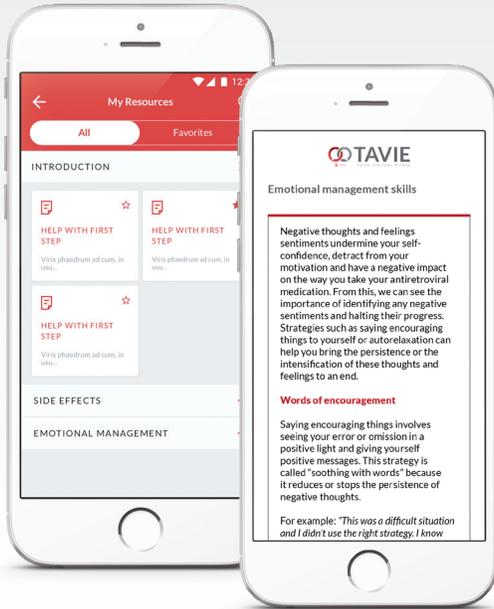


## Patient Self-Assessment and Remote Monitoring

Allows patient to self monitor with a feedback loop and allows care providers to remotely monitor patients based on multiple data sources.

- ★ **Manual entry:** Patient reported adherence, viral load, CD4
- ★ **Psychometrics and patient reported outcomes on validated scales:** HIV knowledge, illness perception, quality of life, anxiety, emotional wellbeing, adherence and risk behaviors
- ★ **Connected device data:** Physical activity, blood pressure, pulse, oxymeter



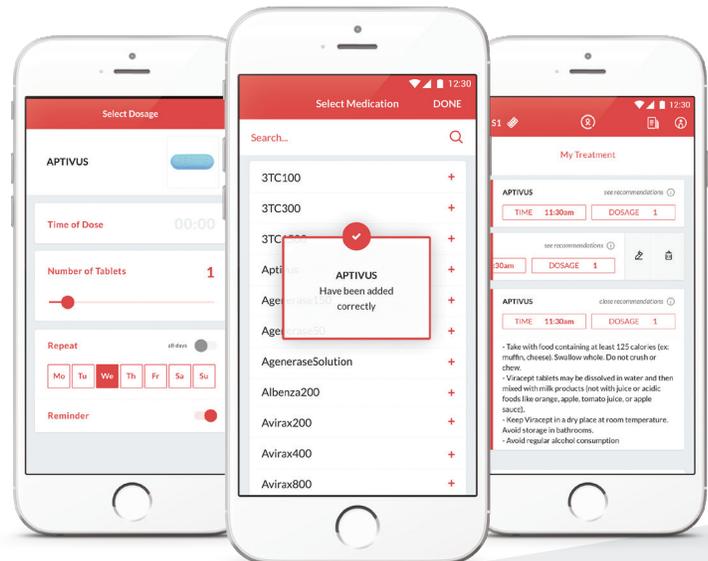


## Virtual Library

- ★ Interactive library of patient information to support them along the overall health journey
- ★ Multi-format: Text, video, PDF

## Treatment Summary

- ★ Select treatment from drug compendium
- ★ Set prescribed drug regimen and reminders
- ★ Treatment summary



# Improving Self-Management and Treatment Adherence in Patients Living with HIV in Rhode Island

## Phase by Phase deployment

-  Est. January 2017  **TAVIE-HIV : Increasing Adherence to Medication**  
*Offering patients a comprehensive application with **VirtualNurse™** coaching designed to raise long-term adherence behavior*
-  Est. April 2017  **Care Provider Monitoring Dashboard**  
*Offering care providers an application to allow them to remotely monitor patient progress and intervene from a distance*
-  Est. June 2017  **TAVIE-HIV : Improving Lifestyle Behaviors**  
*Supporting patients to adopt healthier lifestyle behaviors with regards to physical activity, diet and smoking cessation with incremental **VirtualNurse™** interactive coaching*
-  Est. July 2017  **TAVIE-HIV : Adherence Coaching for Women**  
***VirtualNurse™** coaching for women addressing gender-specific issues and promoting gender equality in digital interventions*

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