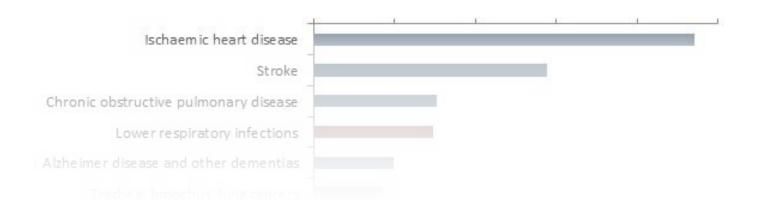


Reducing the cost of **heart failure** through effortless **in-home monitoring**

A Worldwide Crisis CARDIOVASCULAR DISEASE

Heart disease is the leading cause of death worldwide



American Heart Association (2017)



Heart failure¹ costs \$34 B with 80% due to hospitalization

More than 45% of patients are readmitted within 90 days



Fewer than 10% of heart failure patients monitor themselves for deterioration

The standard of care results in preventable hospitalizations

¹ American Heart Journal (2005)



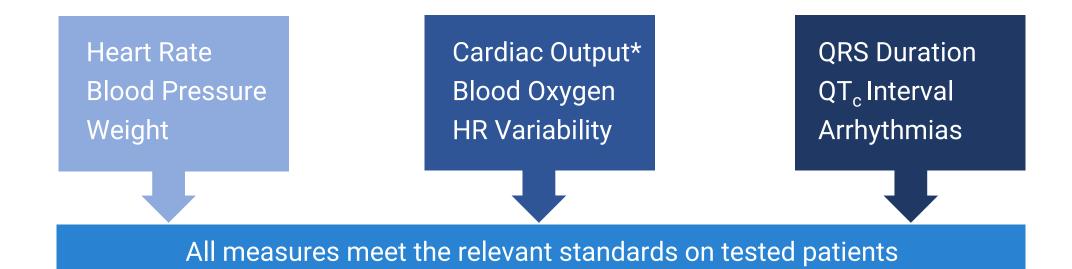
ECG the electrical activity of the heart

PPG local blood volume and oxygenation

BCG the mechanical activity of the heart

Comprehensive

CLINICAL GRADE MONITORING



Validated on **300+ human subjects** including those with heart failure **Published** in 2 peer-reviewed journal articles¹

^{*} No commercial in-home solution exists for monitoring cardiac output

The Solution

PASSIVE DAILY MONITORING

In-Home Monitoring

Install and Forget

Completely self-contained Fits on a standard toilet

Ensured Patient Adherence

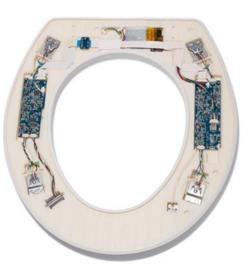
No change in habit required Guaranteed skin contact









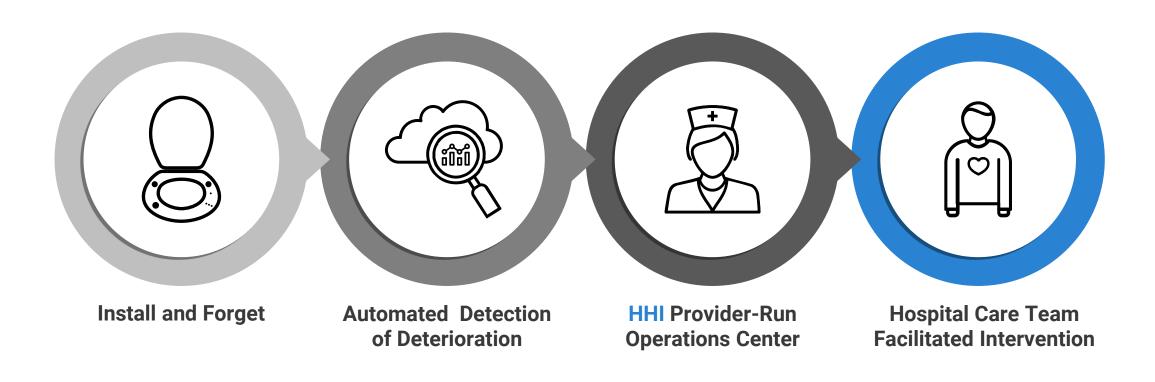


ECG: Electrocardiogram PPG: Photoplethysmogram

BCG: Ballistocardiogram

Reducing Hospitalizations

A COMPLETE SOLUTION



Measurements OTHER SOLUTIONS

	HHI System	Smart BP Cuff	Smart Scale	Wearables ¹	CardioMEMS ² (Abbott)	OptiVol (Medtronic)
HR	✓	✓	√	✓	√	√
Blood Pressure	✓	✓		✓		
Body Weight	✓		✓			
ECG	✓			✓		✓
Blood Oxygenation	✓			✓		
Impedance (Fluid Retention)						✓
Pulmonary Artery Pressure					✓	
Cardiac Output / Stroke Volume	✓					

¹ Requires multiple devices to capture all measurements

A National Crisis

CARDIOVASCULAR DISEASE



By 2035, nearly half of the U.S. population will have some form of cardiovascular disease

Prior 2030 predictions were reached 15 years earlier than anticipated

American Heart Association (2017)

A National Crisis

CARDIOVASCULAR DISEASE



Increasing the effectiveness of adherence interventions may have a far greater impact on the health of the population than any improvement in specific medical treatments

World Health Organization (WHO)

To stand up to heart failure, we need to **sit down**.

