

HEART FAILURE PREVENTION WITH XPATTERNS ACCOUNTABLE CARE INTELLIGENCE

PRIMARY CARE DOCTOR WITH ACCESS TO XPATTERNS ACCOUNTABLE CARE INTELLIGENCE SOLUTION SUITE HELPS EFFECTIVELY TREAT AGING PATIENT LIVING WITH HEART FAILURE

Physicians visit approximately 11 million visits related to heart failure each year – more than all forms of cancers combined. About 550,000 people are newly diagnosed with the life-threatening disease annually, which affects more than 5 million Americans. More than half of those who develop heart failure die within five years of diagnosis.

Heart failure is impartial to gender and age. Symptoms include the inability for the heart to properly pump oxygen-rich blood. Weakened or deteriorating heart muscle prevents adequate blood flow from entering and exiting the heart, which can lead to cardiac arrest and other serious complications. With proper medication, treatment and sometimes surgical intervention, people living with heart failure can live full, healthy lives.

HEART FAILURE PATIENT - WITHOUT XPATTERNS ACI

PATIENT PROFILE: KEITH, 70 YEAR OLD, MALE

Keith, 70, suffers from heart failure and was diagnosed just 18 months ago. He unexpectedly begins having shortness of breath at his nursing home. After speaking with Keith's doctor, the nursing home staff gives him an extra furosemide tablet (diuretic). He continues to be short of breath after given the medication. They immediately call 911.

Keith is taken to the local hospital by ambulance for evaluation. A chest x-ray reveals he had fluid in his lungs, and an echocardiogram shows his ejection fraction is at a low 35%. Blood is not properly flowing from Keith's heart into his body.

WITHOUT XPATTERNS ACI	
Ambulance transportation to ER	\$850
ER Service	\$1800
Lab Services	\$400
Radiology Services	\$700
3 day hospital stay	\$10,600
Medications Upon Discharge	\$250
TOTAL EPISODE COST	\$14,600

The ER doctor realizes Keith has never been prescribed an Angiotensin-Converting Enzyme (ACE) Inhibitor or an Angiotensin Receptor Blocker (ARB) medication. The patient is admitted to the hospital for three days of diuretic therapy.

HEART FAILURE PATIENT - WITH XPATTERNS ACI

PATIENT PROFILE: SAM, 70 YEAR OLD, MALE

Sam is a 70-year old man living with heart failure. He was diagnosed two years ago during an annual physical exam, and was referred to a cardiologist for treatment who prescribed an angiotensin-converting-enzyme (ACE) inhibitor.

xPatterns automatically detected the missing prescription and sent an alert to the MD's EHR, resulting in an appointment request. His wife receives a call from their physician to arrange a full examination for Sam. During the exam, it is discovered that Sam never filled his ACE inhibitor prescription from his last visit.

WITH XPATTERNS ACI	
Medications	\$250
Primary care physician office visit	\$115
TOTAL EPISODE COST	\$365

The physician sends an e-script to the local pharmacy, and reminds Sam and his wife of the importance of taking his medication. He agrees to take his medication carefully, and his physician arranges for a nurse to check-in with Sam two days later.

The nurse confirms Sam is continuing to take his prescriptions and is doing fine. Regular doctor visits are then arranged to help manage Sam's condition. As a result of xPatterns, the doctor was able to save Sam from complications resulting from his condition, which would have cost \$14,235 in medical bills. That's a 97.5% reduction in healthcare costs versus without xPatterns.