







# Changing Clinical Practice to Optimize Provider Performance in an ACO

The ProHealth-QURE Experience

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#### Partnering to Elevate Clinical Care



Directly engaging clinicians to reduce variation from evidence-based guidelines can improve outcomes, safely reduce costs and drive success in new payment models.



Solution

QURE's unique CPV platform identifies quality improvement opportunities, standardizes clinical practice and safely reduces unnecessary costs.





#### Why Were QURE and ProHealth a Good Fit?

#### **Ideal Partners:**

- Are confident, self-aware and data-oriented.
- Prioritize quality improvement and cost reduction.
- Want to lower unit costs and achieve practice efficiency to succeed in a value-based payment world.
- Are directed by strong leadership that fully supports reducing unwarranted variation.





#### **QURE Healthcare: Elevate Clinical Practice**



- Founded in 2012
- Innovative Clinical Performance and Value (CPV) vignette clinician engagement platform
- Built upon 17 years published academic and clinical research
- Customers include hospitals, payers and life science firms
- 30,000 clinicians have used the QURE approach
- Strong partnership with Premier since 2015



### ProHealth Physicians: Connecticut's Leading Primary

### Care Physician Group

- Cares for over 360,000 people across the state of Connecticut
- Includes 350 primary care and specialty providers at 85 practice locations
- Part of Medicare Shared Savings Program since 2013
- Also care for over 100,000 commercial ACO patients







### **Presentation Overview**

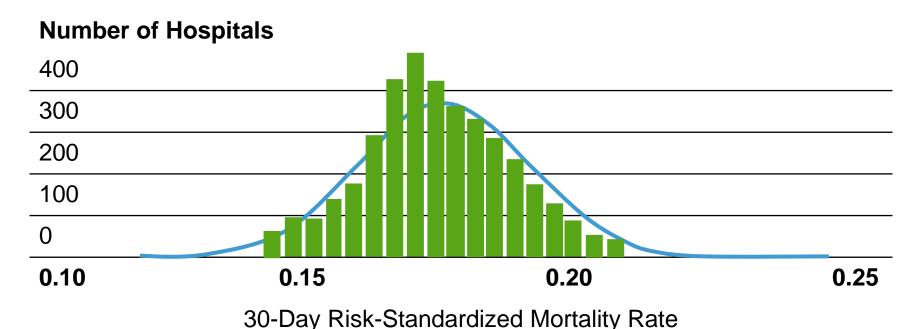
- The Why: Quality, Variation and Value
- ▶ The How: QURE CPV® Vignettes
- The What: QURE Results





### Clinical Variation and Low Quality Care is an Enormous Challenge and...It is Significant

Distribution of Risk-Standardized 30-Day Mortality Rates for Patients With Heart Attacks



Harlan M. Krumholz, Sharon-Lise T. Normand, John A. Spertus, David M. Shahian, and Elizabeth H. Bradley, Measuring Performance For Treating Heart Attacks And Heart Failure: The Case For Outcomes Measurement, Health Aff January 2007 26:175-85: doi:10.1377/hlthaff.26.1.75





# Reducing Unwarranted Variation... Leads to Clinical and Financial ROI

### Intermountain Healthcare: Impact of Variance Reduction

	Acute Respiratory Distress	Elective Inductions
Variance	From 59% to 6%	From 28% to 2%
Clinical ROI	Mortality drops 4.6X	C-sections decline 34%
Financial ROI	25% Savings	\$50M annually

Source: James B and L Savitz. Health Aff June 2011 vol. 30 no. 6 1185-1191





# ProHealth Has a Strong Quality Record and Opportunity to Build on That Record in ACOs

#### **Select ProHealth Clinical Quality Performance Reports**

Measure	2014 Performance	2015 Year-End Targets
ACE Inhibitor/ARB for CAD and Diabetes and/or LVSD	63%	92%
CHF Beta Blocker for (LVSD)	72%	90%
Aspirin for Ischemic Vascular Disease	70%	90%
Breast Cancer Screening	65%	90%
Tobacco Use Screen/Plan	81%	90%





### **ProHealth-QURE Quality Standardization Project**

# Collaboration with: ProHealth Physicians QURE Healthcare Aetna Accountable Care Solutions

#### Goals of the PQQS:

- Measure common ways of caring for diabetes and heart failure patients across ProHealth.
- Provide forum for clinicians to discuss clinical variation.
- Improve quality and reduce unneeded variation for patients.
- Support ProHealth's success in MSSP and other ACOs





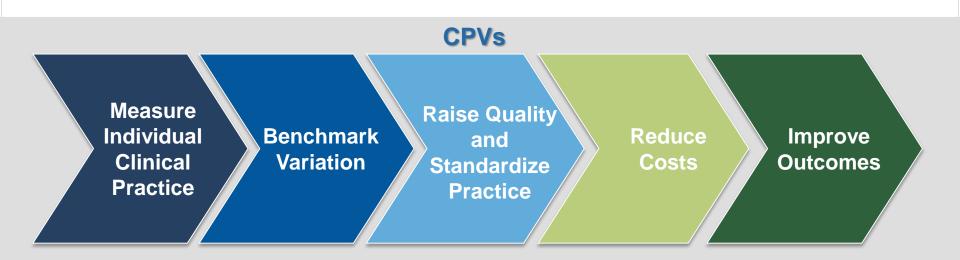
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### The QURE Clinical Performance and Value (CPV®) Vignette Solution



QURE and ProHealth focused on ambulatory care for Adult Diabetes and Heart Failure



# CPV® Vignettes Are a Standard Measure of Practice That Is Accurate and Efficient

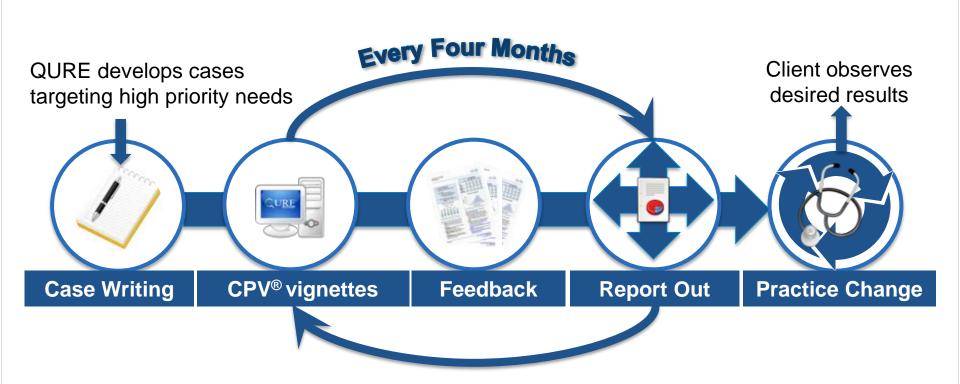
- 1 CPV® cases were codeveloped with ProHealth clinical leaders
- Virtual patients present with symptoms on each providers computer.
- Clinician cares for patient, completing open-ended questions regarding:



- Taking a history
- Conducting a physical examination
- Ordering tests
- Making a diagnosis
- Providing treatment



### The QURE Approach: Serially Implementing CPV® **Measurement and Feedback**



**Every three rounds, participating providers receive:** 

20 Category I CME credits // 20 ABIM Part II MOC points





# QURE Engages Clinicians Over Six Rounds of Measurement and Feedback

#### Six rounds shown to be an adequate 'inoculation':

- Persists long after the project is completed
- Launch to completion only 20 months



#### After each round:

- Individual feedback to each clinician
- Aggregate CPV Quality and Variation Reports

Source: Quimbo S, Wagner N, Florentino J, Solon O, Peabody JW. "Do Health Reforms to Improve Quality Have Long-term Effects? Results of a Follow-up on a Randomized Policy Experiment in the Philippines." *Health Economics.* In Press.





# CPVs® Work Because Users Are Engaged in Familiar, Meaningful and Collaborative Learning

# The most effective learning method... for changing physician practice patterns:

### Active

Based in clinical practice



Supported by peer discussions

# Multifaceted

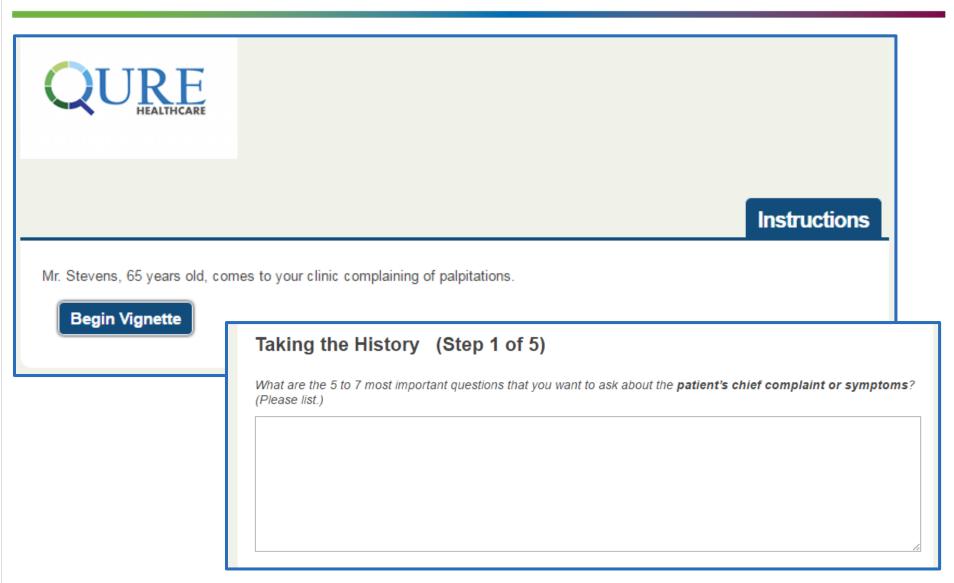
Delivers relevant feedback

Involves local opinion leader support





### **CPV® Vignettes Use a Realistic Online Simulation...**







#### ...That Unfolds the Clinical Encounter

Mr. Stevens, 65 years old, comes to your clinic complaining of palpitations.

He tells you that in the past month he has been having short episodes of rapid heartbeat. These were inconsistently aggravated by coffee intake, smoking, and eating his meals. These episodes were not accompanied by chest discomfort, dyspnea, light-headedness, dizziness, or flushing. However, he tells you that in the past 6 months, he has been having difficulty performing his usual chores at home and feeling short of breath when he climbs about 1 to 2 flights of stairs. He complains of dry cough, especially at night, which makes him use about 3 pillows when he sleeps. He does not have any episodes of waking up at night and feeling short of breath. He reports weight gain of a few pounds but does not complain of chest heaviness, edema, abdominal pain, fever, urinary or bowel movement changes. He tells you that he has limited his physical activity around the house due to fear of causing the palpitations and shortness of breath.

He was diagnosed with congestive heart failure a year ago, secondary to hypertension, for which he takes lisinopril 5mg and furosemide 20mg once daily. A few months back, he was diagnosed with erectile dysfunction for which he takes sildenafil 50mg as needed. His usual BP ranges from 140 to 160/70 to 80. He had a laparoscopic cholecystectomy about 6 years ago for gallstones. He is allergic to penicillin. His wife tells him he has been snoring a lot recently and he also mentions that he has been falling asleep during meetings as well.

Otherwise, his review of systems is unremarkable.

Mr Stevens is Caucasian. His mother died of massive ischemic stroke while his father died of lung cancer. Relatives on both parents' sides have hypertension. He is a current smoker (1-2 cigarettes/day) and has completed 10-pack years, occasionally drinks red wine and has no history of illicit drug use. He eats out a lot and does not monitor his sodium intake. He is a retired accountant and has recently remarried. This past year he enrolled in Medicare.

His vital signs: Blood pressure 140 over 80, pulse rate 72, respiratory rate 24, temp 99.0 deg F Weight 205 lbs Height 66 in BMI 33 kg per m^2 Abdominal circumference 36cm Neck circumference 17cm

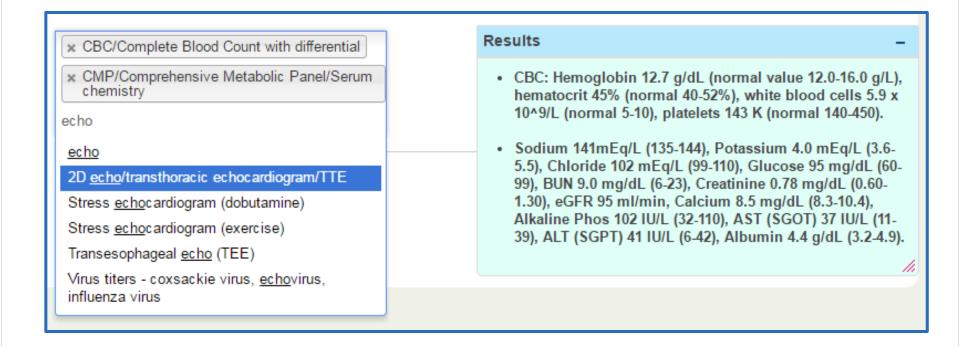
#### Conducting the Physical Examination (Step 2 of 5)

What are the 5 to 7 most important elements of the physical examination that need to be performed on this patient? (Note: **Please be specific.** For example, do not say you would "examine the knee." Instead, report what you would look for when you examine the knee, e.g. "examine the knee for redness, swelling, and point tenderness" or "evaluated knee for ligaments laxity and range of motion.")





# Order Tests to Work Towards a Diagnosis and Treatment







# Providers Arrive at a Diagnosis and Outline a Treatment Plan

Diagnosis	(Step	4 of	5)
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At this point, what is your primary diagnosis?

CHF FC II non-ischemic heart disease

What is the severity and what is this patient's risk for future cardiovascular events?

FC II, ARIC 17.6%

#### Treatment and Follow-Up (Step 5 of 5)

List the 8 to 10 key interventions, investigations or treatments this patient needs.

- Include non-pharmacological and pharmacological management, noting any changes to drug therapy (include dose, schedule
  and duration of therapy).
- . If patient counseling is included in the management, write down what you will advise the patient including risks and benefits.

Discontinue furosemide

Start beta-blocker with bisoprolol 1.25mg OD

Aspirin

Statin (moderate dose)

Weight loss counseling

Low salt diet

Smoking cessation advice/referral

### Cases typically take 20 to 30 minutes

What referrals (if any) would you make for this patient?

Please use the drop down menu to select any referrals you feel are most appropriate for treatment or follow-up. Begin typing the type of referral you would like to trigger the drop down. If you would like to make a referral that is not on the menu, please type the name and simply press "ENTER."

If you do not wish to make a referral, please type or select "NONE" and hit ENTER.

\* Nurse case manager



# CPV® Vignettes Are Written and Scored Against Evidence Based Guidelines

Cases are heavily informed by guidelines and designed to address areas of high variation:

- Work-up challenges
- Diagnostic challenges
- Therapeutic challenges
- Support adoption of established guidelines/pathways/protocols

Cases were reviewed by ProHealth clinical leadership and specialty councils



CPV outputs are percentage scores of items marked in accordance with EBM





# Individual Feedback:

### **Customized for Each Case and Participant**

#### Case Summary: Mr. Stevens

This is the case of a 65-year-old male smoker and with hypertension, complaining of palpitations, dyspnea on exertion and nocturnal cough who is later diagnosed to have congestive heart failure from non-ischemic heart disease and coincident mild aortic

My Case Score 70.8% Group Round Ava. 64.9%

Clinical Area: Internal Medicine

Completed July 2015

#### My Improvement Opportunities



#### Top Priority Feedback



- 1. The patient appears to be normovolemic and daily furosemide may be discontinued.
- 2. Consider starting this patient on daily low-dose aspirin to reduce his coronary heart disease risk.
- 3. This patient should be started on a high-dose statin in accordance with current lipid guidelines.
- 4. The most recent quidelines recommend a target BP < 150/90 among hypertensive patients 60 years old and older.
- 5. In patients with mild aortic stenosis, yearly history, physical examination, echocardiogram (more frequent if changes in functional status occur) is appropriate.
- 6. Holter monitoring is useful for identifying potential rhythm abnormalities that may be causing symptoms in this case.

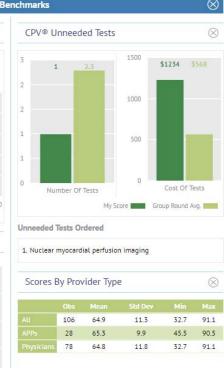
#### Case Relevant References



- Nishimura RA, et al. 2014 AHA/ACC guideline for the management of patients with valvular heart disease: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. J Am Coll Cardiol 2014;63:e57-185.
- Yancy CW, et al. 2013 ACCF/AHA guideline for the management of heart failure: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines, Circulation, 2013;128:e240-e327.
- Stone. Neil J. et al. 2013 ACC/AHA Guideline on the Treatment of Blood Cholesterol to Reduce Atherosclerotic Cardiovascular Risk in Adults. Journal of the American College of Cardiology (2013).
- James, Paul A et al. 2014 Evidence-Based Guideline for the Management of High Blood Pressure in Adults Report From the Panel Members Appointed to the Eighth Joint National Committee (JNC 8). JAMA. 2014;311(5):507-520.



My Score Group Round Avg.





# Group Feedback: 'Focus on Seven'

### 'Focus on Seven' Group-wide Areas of Variation

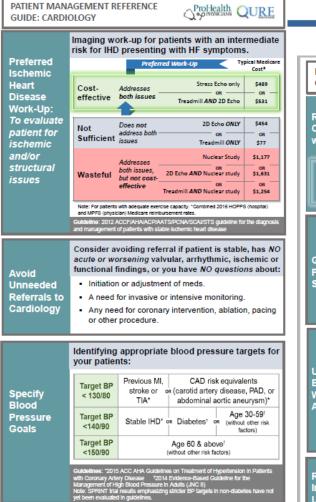
- 1 Nuclear testing is not needed for every IHD work-up.
- Cardiology referrals are overused.
- Blood pressure targets should be explicit (and based on patient risk).
- 4 Ask about **prior treatments**, document **review of systems**
- 5 Lipid testing needs to align with guidelines.
- 6 Aspirin, statin, beta blockers and ACE inhibitors are often under prescribed.
- 7 Cancer screenings and vaccinations should always be up to date.



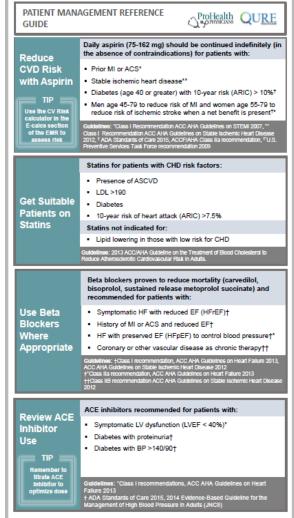
### **CPV Data Guides Patient Management Reference**

Cards

Group-wide
Opportunities
Addressed in Patient
Management
Reference Guide
cards with
recommendations
and guideline
references



Approved by ProHealth Cardiology Committee, March 2016



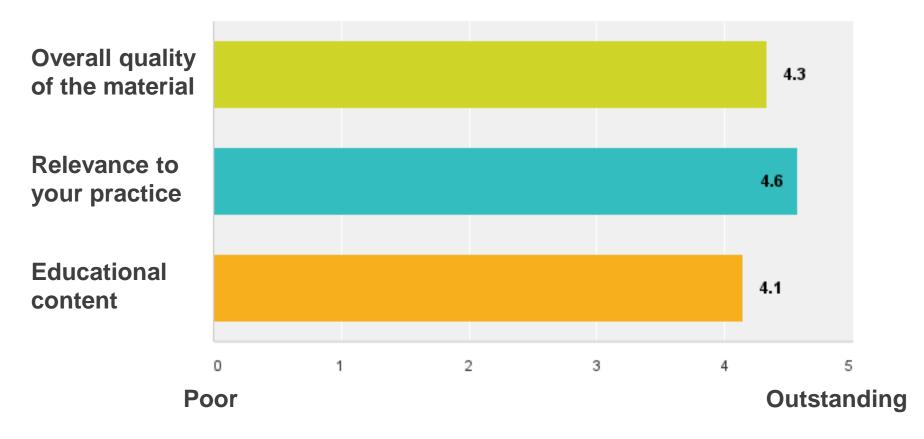




### **ProHealth Physicians Find Value in the QURE System**

ProHealth QURE Physician Survey, Jan 2016

Question: Please rate the following aspects of this activity





#### **Presentation Overview**

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### **Results: CHF Decreasing Unneeded Testing**

# Potential work-ups for patients with an intermediate risk for Ischemic Heart Disease presenting with HF symptoms\*:

#### **Cost Effective:**

- 2D Echo AND Treadmill (total cost \$636) or
- Stress Echo only (total cost \$681)

#### **Round 1**

38% of participants



48% of participants

Round 3

#### **Insufficient:**

- 2D Echo ONLY (total cost \$560) or
- Treadmill ONLY (total cost \$76)

## 20%

of participants



28% of participants

#### Wasteful:

- 2D Echo AND Nuclear study (total cost \$1,793) or
- Treadmill AND Nuclear study (total cost \$1,309) or
- Other combination of tests (total cost varies)

42% of participants



24% of participants

\*2012 ACCF/AHA/ACP/AATS/PCNA/SCAI/STS guideline for the diagnosis and management of patients with stable ischemic heart disease

Note: Cost estimates based on combined 2014 HOPPS (hospital) and MPFS (physician)

Medicare reimbursement rates





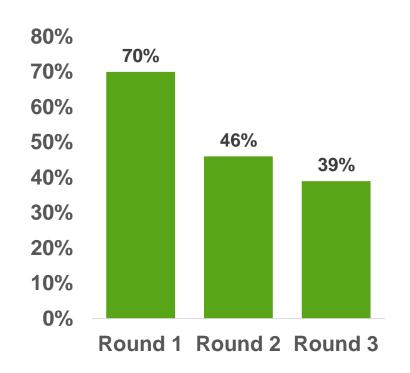
# Results: Dramatic Reduction In Unneeded Referrals to Cardiology

#### **Recommendation:**

Consider avoiding a referral if patient is stable and has no new valvular heart disease and you have no questions regarding:

- Initiation or adjustment of meds.
- A need for invasive or intensive monitoring.
- Any need for coronary intervention, ablation, pacing or other procedure.

# Percent of cases with unneeded Cardiology referral





# Results: ACE Inhibitors Well Utilized in DM, Opportunities for CHF Patients

#### **Guidelines:**

ACE inhibitors recommended for patients with: (N)

- Symptomatic LV dysfunction (LVEF < 40%)\*</li>
- Diabetes with proteinuria<sup>†</sup>
- Diabetes with BP ≥140/90<sup>†</sup>

#### **CPV Practice Result:**

- 47% of CHF patients were prescribed ACE inhibitor when guideline recommended (e.g., LV dysfunction, diabetes).
- 88% of DM patients were prescribed ACE inhibitor when risk factors were present.

#### TIP:

Remember to titrate ACE inhibitor to optimize dose

HFrEF= heart failure with reduced ejection fraction

\*Class I recommendations, ACC AHA Guidelines on Heart Failure 2013

† ADA Standards of Care 2015, 2014 Evidence-Based Guideline for the Management of High Blood Pressure in Adults (JNC8)





# Results: A Closer Look at Screenings/Vaccinations, Recommendation to Leverage ProHealth EMR

#### **Guidelines:**

- Screening FOBT, sigmoidoscopy or colonoscopy, for those age 50-75
- Biennial screening mammogram for women aged 50-74
- Referral to GYN for pap smear, for women aged 21-65 every 3 years
- Influenza annually for all adults
- Pneumococcus (PPSV23) for those with chronic heart disease and diabetes
- Shingles vaccine for ages > 60

#### **CPV Practice Results:**

- Only 50% of providers identified needed cancer screenings.
  - +5% improvement from Round 2
- Only 45% of providers identified needed vaccinations.
  - +8% improvement from Round 2

TIP:

Consult your QIS report in the ProHealth EMR, mentioned QIS review in CPV





### Performance on Key Quality Measures Improved Across the Organization

#### **Select ProHealth Clinical Performance Reports**

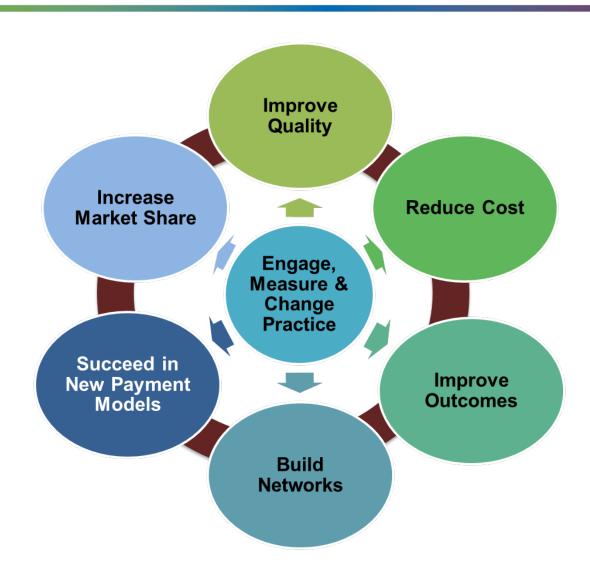
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CHF Beta Blocker for (LVSD)	72%	95%	90%
Aspirin for Ischemic Vascular Disease	70%	90%	90%
Breast Cancer Screening	65%	75%	90%
Tobacco Use Screen/Plan	81%	93%	90%

2 of the 3 regions participating QURE program had the highest compliance percentage across ProHealth's 11 regions





### **Engage, Measure and Change Clinical Practice**







### **▶** Please submit your questions now





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#### Thank you for your time and attention!

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