Million Hearts® Private Partner Call

July 18, 2017 1:00pm ET



Introductions and Overview

Robin Rinker, MPH, CHES

Health Communications Specialist, Division for Heart Disease and Stroke Prevention



Agenda

- Welcome
- Cardiac Rehabilitation in the Million Hearts® Framework
- Cardiac Rehabilitation Overview and Actions You Can Take
- Discussion/Q & A*
- Share Your Commitment*
- Partner Updates*
- Closing



Welcome

Janet S. Wright, MD, FACC

Executive Director Million Hearts®



Cardiac Rehab: Getting to 70% Participation

Haley Stolp, MPH

Public Health Analyst, IHRC Inc.
Centers for Disease Control and Prevention



Disclaimer

The opinions expressed by authors contributing to this project do not necessarily reflect the opinions of the US Department of Health and Human Services, the Public Health Service, the Centers for Disease Control and Prevention, or the authors' affiliated institutions. Use of trade names is for identification only and does not imply endorsement by any of the groups named below.



Cardiac Rehab: What is it?

Comprehensive, team-delivered programs designed to

- · Limit the effects of cardiac illness
- Reduce the risk for another heart attack or sudden death
- · Control cardiac symptoms
- · Stabilize or reverse the atherosclerotic process
- Enhance the psychosocial and vocational status of patients

Typically administered in 36 sessions over ~12 wks







John's Story at https://www.youtube.com/watch?v=8DQo3uCK5_Y&feature=youtu.be

Cardiac Rehab: Who Benefits?

For whom is there strong evidence of benefit---and good insurance coverage---for cardiac rehabilitation?

- •Those with a prior heart attack or stable angina
- Systolic heart failure and EF < 35%
- ·Stent or angioplasty
- · Bypass, valve, or heart or lung transplant surgery



Cardiac Rehab: What is the Evidence?

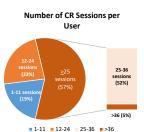
- Reduces
 - Death from all causes by 11-24%
 - Death from cardiac causes by 26-31%
 - Hospitalizations by 31%
- · Improves
 - · Adherence to medications by 31%
 - · Functional status, mood, and Quality of Life scores
- · More is Better
 - 36 vs fewer sessions reduces risk of heart attack and death



Use among Medicare Fee-forservice Beneficiaries

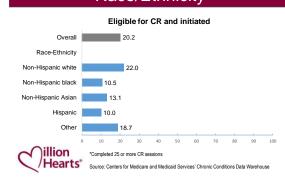
~450,000 beneficiaries were eligible in 2013

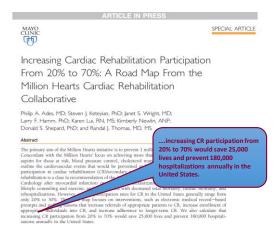
- 20% used CR at least once in 12 months
- 57% of CR users completed 25 or more sessions

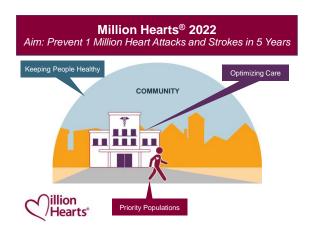




Cardiac Rehab Use by Race/Ethnicity







Keeping People Healthy

Goals	Effective Public Health Strategies	
Reduce Sodium Intake Target: 20%	Enhance consumers' options for lower sodium foods Institute healthy food procurement and nutrition policies	
Decrease Tobacco Use Target: 20%	Enact smoke-free space policies that include e-cigarettes Use pricing approaches Conduct mass media campaigns	
Increase Physical Activity Target: 20% (Reduction of inactivity)	Create or enhance access to places for physical activity Design communities and streets that support physical activity Develop and promote peer support programs	



Optimizing Care

Goals	Effective Health Care Strategies	
Improve ABCS* Targets: 80%	High Performers Excel in the Use of Teams—including pharmacists, nurses, community health workers, and cardiac rehab professionals Technology—decision support, patient portals, e- and default	
Increase Use of Cardiac Rehab Target: 70%	referrals, registries, and algorithms to find gaps in care Processes—treatment protocols; daily huddles; ABCS scorecards; proactive outreach; finding patients with undiagnosed high BP, high cholesterol, or tobacco use Patient and Family Supports—training in home blood	
Engage Patients in Heart-healthy Behaviors Targets: TBD	pressure monitoring; problem-solving in medication adherence; counseling on nutrition, physical activity, tobacco use, risks of particulate matter; referral to community-based physical activity programs and cardiac rehab	



Aspirin use when appropriate, Blood pressure control, Cholesterol management, Smoking cessation

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*Aspirin use when appropriate, Blood pressure control, Cholesterol management, Smoking cessation



Improving Outcomes for Priority Populations

Priority Populations	Major Strategies	
Blacks/African Americans	Improving hypertension control	
35- to 64-year-olds, because event rates are rising	Improving hypertension control and statin use Increasing physical activity	
People who have had a heart attack or stroke	Increasing cardiac rehab referral and participation Avoiding exposure to particulate matter	
People with mental illness or substance use disorders	Reducing tobacco use	



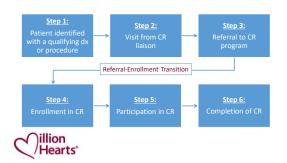
Million Hearts® 2022 Clinical Quality Measures

Measure	Measure Number	Measure Description
Aspirin When Appropriate	NQF 0068	Ischemic Vascular Disease (IVD): Use of Aspirin or Another Antithrombotic Percentage of patients aged 18 years and older with IVD with documented use of aspirin or other antithrombotic
Blood Pressure Control	NQF 0018	Hypertension: Controlling High Blood Pressure % of patients aged 18 - 85 years with a diagnosis of HTN and an office BP of <140/90 during the measurement year
Cholesterol Management	PQRS 438	Statin Therapy for the Prevention and Treatment of Cardiovascular Disease *Author aged 2: 21 years who were previously diagnosed with or currently have an active diagnosis of clinical sherocircoic cardiovascular disease. Or Author aged 2: 1 years with a tearing or direct LDL-C level 2: 190 mg/dL. OR *Author aged 2: 1 years with a flasting or direct LDL-C level 3: 190 mg/dL. OR *Author aged 2: 1 years with a flasting or direct LDL-C level 3: 190 mg/dL. OR *Author aged 2: 1 years with a flasting or direct LDL-C level 3: 190 mg/dL. When the control of th
Smoking Cessation	NQF 0028	Preventive Care and Screening: Tobacco Use % of patients ≥18 years who were screened about tobacco use one or more times within 24 months and who received cessation counseling intervention if a tobacco user
Cardiac Rehab Referral	NQF 0643 NQF 0642	Referral to CR from Inpatient or Outpatient Setting % of patients with an eligible diagnosis who are referred from a hospital (or office) to an early outpatient CR program
ВМІ	NQF 0421	Screening and Follow-Up % of patients _ 18 years with a documented BMI during the current encounter or during the previous six months AND when the BMI is outside of normal parameters, a follow-up plan is documented during the encounter.

Getting to 70% CR Participation



Cardiac Rehab Work Flow



Stay tuned for the cardiac rehab webpage!





Cardiac Rehabilitation Overview and Actions You Can Take

Steven J. Keteyian, PhD, Henry Ford Hospital Kimberly Newlin, ANP, Sutter Roseville Medical Center Randal J. Thomas, MD, MS, Mayo Clinic



Why Cardiac Rehabilitation is So Important

Steven J. Keteyian, PhD
Director, Preventive Cardiology Unit
Henry Ford Hospital
Detroit



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Definition: Cardiac Rehabilitation (CR)

- CR is a multidisciplinary, systematic approach to applying secondary prevention therapies of known benefit to patients with certain cardiovascular disease. Strategies include:
 - Regular exercise
 - Nutrition therapy/counseling
 - Medication management/compliance
 - Tobacco counseling
 - Counseling/therapy for emotional well-being and mood



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Content updated 8(27)2022 25

Cardiac Rehabilitation

- 24 to 36 exercise visits
- Structured education

Who's Eligible?

- Myocardial infarction
- Heart surgery:
 - coronary artery bypass
 - valve replacement/repair
- Stable angina
- Percutaneous coronary intervention (PCI)
- Cardiac transplant
- Heart failure (CMS limited to reduced ejection fraction only)

Smith et al., AHA/ACCE Secondary Prevention and Risk Reduction Therapy for Patients with Coronary and other Atheroscierotic Vascular Disease: 2011 update: a guideline from the American Heart Association and American College of Cardiology Foundation. Circulation. 2011;29;124:2458-73.

Relevant Professional Guidelines Addressing CR

- 2014 AHA/ACC Guideline for the Management of Patients with Non-ST-Elevation Acute Coronary Syndromes: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines
- 2013 ACCF/AHA guideline for the management of ST-elevation myocardial infarction: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines
- 2015 ACC/AHA/SCAI Focused Update on Primary Percutaneous Coronary Intervention for Patients With ST-Elevation Myocardial Infarction: An Update of the 2011 ACCF/AHA/SCAI Guideline for Percutaneous Coronary Intervention and the 2013 ACCF/AHA Guideline for the Management of ST-Elevation Myocardial Infarction
- 2013 ACCF/AHA Guideline for the Management of Heart Failure
 2012 ACCF/AHA/ACP/AATS/PCNA/SCAI/STS Guideline for the Diagnosis and
- Management of Patients With Stable Ischemic Heart Disease
- AHA/ACCF secondary prevention and risk reduction therapy for patients with coronary artery and other atherosclerotic vascular disease: 2011 update
- 7. 2011 ACCF/AHA Guideline for Coronary Artery Bypass Graft Surgery

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Summary of the Effectiveness of CR/Exercise Training in Secondary Prevention

Improved disease-related symptoms Definite	Improved exercise capacity, 10%-30% Definite
Improved resting blood pressure –	Anti-inflammatory effect –
Definite	Probable
Improved blood triglyceride –	Improved endothelial function –
Definite	Definite
Improved high density lipoprotein –	Improved skeletal muscle strength –
Probable (mild)	Definite
Improved blood glucose –	Improved skeletal muscle endurance –
Definite	Definite
Reduction in body weight –	Decreased risk all-cause mortality –
Partially	Definite/Probable
Improved mood (depression/anxiety) –	Decreased risk all-cause hospitalization –
Definite/Probable	Definite
co e .	



Progress in Cardiovascular Disease. 2011:53;385-386,397-403, and 419-446

AACVPR/ACCF/AHA 2010 Update: Performance Measures on Cardiac Rehabilitation for Referral to Cardiac Rehabilitation/Secondary Prevention Services

A Report of the American Association of Cardiovascular and Pulmonary Rehabilitation and the American College of Cardiology Foundation/American Heart Association Task Force on Performance Measures (Writing Committee to Develop Clinical Performance Measures To Cardiac Rehabilitation)

Endorsed by the American College of Chest Physicians, the American College of Sports Medicine, the American Physical Therapy Association, the Canadian Association of Cardiac Rehabilitation, the Clinical Exercise Physiology Association, the European Association for Cardiavascular Prevention and Rehabilitation, the Inter-American Heart Foundation, the National Association of Clinical Nurse Specialists, the Preventive Cardiavascular Nurses Association, and the Society of Thoracic Surgeons

Writing Committee Members

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Cardiac Rehabilitation Patient Referral From:

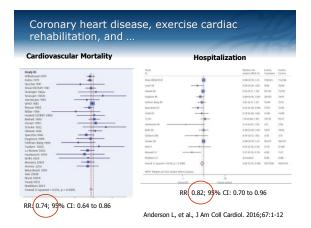
Inpatient Setting (Measure A-1)
Outpatient Setting (Measure A-2)

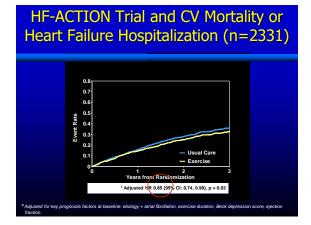
Thomas et al., J Am Coll Cardiol. 2010;56:1159-1167

Meta-Analysis of Exercise Training in Patients with Coronary heart disease

- All-cause mortality (>12 mo follow up)
 - -N = 16 trials; n = 5,790 subjects
 - $-\downarrow$ 13% (RR 95% CI = 0.75, 0.99)
- Cardiovascular mortality (>12 mo f/up)
 - n = 12 trials; n = 4,757 subjects
 - $\downarrow 26\%$ (RR 95% CI = 0.63, 0.87)
- Hospital readmission (6 12 mo follow up)
 - -n = 4 trials; n = 463 subjects
 - $\downarrow 31\%$ (RR 95% CI = 0.51, 0.93)

Heran et al. Cochrane Database Syst Rev. 2011 Jul 6;(7):CD001800.





Increasing Cardiac Rehabilitation Participation From 20% to 70%: A Road Map From the ion Hearts Cardiac Rehabilitation increasing CR participation Collaborative

from 20% to 70% would save 25,000 lives and prevent 180,000 hospitalizations annually in the U.S.

A. Ades, MD; Steven J. Keteyian, PhD; Janet S. Wright, MD; F. Hamm, PhD; Karen Lui, RN, MS; Kimberly Newlin, ANP; Donald S. Shepard, PhD; and Randal J. Thomas, MD, MS

initiative is to prevent 1 million cardiovascular events over 5 years, locus on achieving more than 70% performance in the 'ARCS' of ure control, cholesterol management, and anothering ceasation, Not (CR)/secondary prevention programs by the year 2022. Cardiac tion of the American Heart Association and the American College on or coronary revascularization, promotes the ARCS along with articipation rates for CR in the United States generally range from scuses on interventions, such as electronic medical record—based gase refernals of appropriate patients to CR, increase enrollment of locuses on timerventions, such as electronic medical record—based gase refernals of appropriate patients to CR, increase enrollment of the control of the c



Summary

- 1. CR is a multidisciplinary, systematic approach to applying secondary prevention therapies of known benefit to patients with certain cardiovascular disease.
- 2. CR represents guideline-based care
- 3. CR is effective, associated with:
 - improving many physiologic and behavioral outcomes
 - reducing all-cause mortality, cardiovascular mortality and re-hospitalization





Current Participation & Capacity

- · Current participation rates for CR in the U.S. generally range only from 20% to 30%
- Participation rates depend somewhat upon cardiac diagnosis: patients after surgical revascularization have higher participation rates than patients after MI or percutaneous revascularization
- Even with modest expansion of all existing programs operating at capacity, a maximum of 47% of qualifying patients in the United States could be serviced by existing CR programs
 - This limit probably contributes to CR underutilization and has important policy implications.





Current Referral Process

- Low referral rate for women, older adults and ethnic minorities, lower socioeconomic status
 - Women and minorities are significantly more likely to die within 5 years after a first MI compared with white male patients
- For every 1 day delay to start CR, there is an approximate 1% less likelihood of the patient enrolling







Current Referral Process

- Referrals are not always automatic and often CR is not offered to patient at time of event
 - Automatic referral alone increased the referral rate to 70%
 - Automatic referral combined with a liaison attained referral rates of 86% compared to 32% in controls who received neither intervention
- CR Referral is not a mandatory quality performance measure
 - Studies show an increase in referral rate at hospitals participating in quality improvement activities





Standard Model









Standard Model

- Outpatient and/or hospital based exercise program
- Often far from where patients live without good parking or public transportation access
- 2-3 times per week
- Class times throughout day, most often 7 AM 3 PM on weekdays
- · Lack of diversity among patients and clinicians
- · Physician supervision required
- · Expensive to operationalize
- Many patients have copay of \$20-\$40 per visit
- · Reimbursement has improved





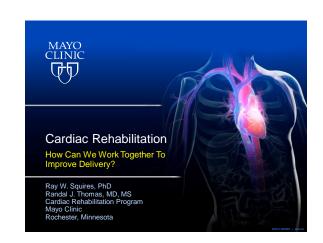
Alternative Models: A Few Out There!

- Home Based or Hybrid Programs
 - Data supports efficacy and safety of programs
 - Reimbursement doesn't support these programs
- Kaiser MULTIFIT: Patients attend a 2-hour class and then are monitored by a nurse over the phone





Sutter Health



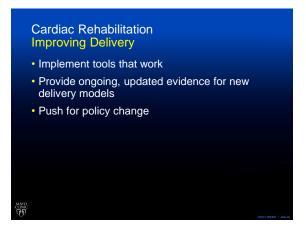




Future of Cardiac Rehabilitation CR will grow in importance and impact CR will continue to evolve

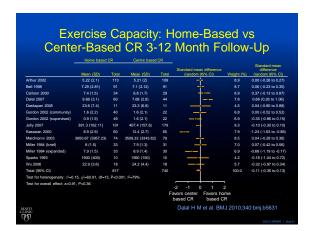


What Can We Do To Improve Cardiac Rehabilitation Delivery?











Cardiac Rehabilitation
Centers for Medicare and Medicaid Services Pilot Studies

• Starting in January 2018

• Selected geographic areas will be assigned to "usual care" or to either or both of the following:

• Financial incentive Model

• Large incentive for referring providers

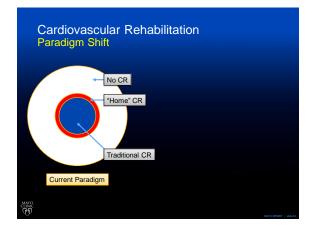
• Aimed at helping to reduce barriers to CR

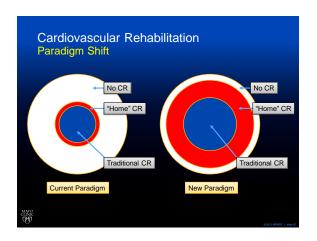
• Incentivizes center-based CR care

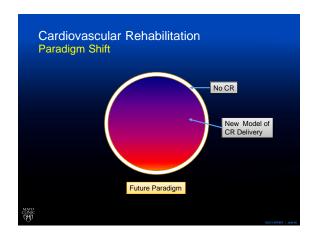
• Bundled payment (episode payment)

• Bundled payment for CABG and MI care

• Incentivizes lower cost CR care (home-based?)







Discussion/Q & A

April Wallace, Program Initiatives Manager Million Hearts® Collaboration

Do you have a question for one of the panelist?

Please submit your questions in writing using the Q&A
Panel located at the bottom right of your screen.

Following the online questions, we will open the phone
lines for additional questions.



Share Your Commitment to Million Hearts® 2022

How do your organization's mission and goals align with Million Hearts® 2022?

What strategies will you implement to help prevent one million events by 2022?



Key Updates and Questions from Partners

April Wallace, Program Initiatives Manager Million Hearts® Collaboration

Please "raise your hand" by clicking on the hand icon. When recognized, please share your name, organization name, and a brief update.

Following the online requests, we will open up the phone lines for additional updates from partners.



Thank You!

Next Partner Call October 31, 2017, 1 p.m. EST

Please submit any comments or feedback to millionhearts@cdc.gov.

