Kentucky + Million Hearts 2022 What One (Awesome) State Can Achieve

Kentucky Heart Disease and Stroke Prevention Task Force Frankfort, Kentucky July 11, 2018



Janet Wright MD FACC cutive Director, Million Hearts

Today's Objectives

- · Million Hearts 2022 overview
- · Lightning Round: Burning Questions and Feedback
 - · What strikes you about this framework?
 - How could you use it to accelerate progress in Kentucky's cardiovascular and cerebrovascular health and care?
 - · What "pieces" of Million Hearts 2022 would you like to hear about in
 - more detail?
- The Gauntlet

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Million Hearts® 2012-2016

- · Improved BP control and Cholesterol management
- · Issuance of trans-fat and sodium policies
- Target will likely be hit for tobacco prevalence
- By 2014, nearly 115,000 CV events were prevented
- We estimate that up to 500K events will have been
- prevented when final data are available in 2019
- · Million Hearts = 120 partners, 20 federal agencies, all 50 states, and the District of Columbia



ICD ICD-7 ICD-8 ICD-9 ICD-10 1000 CVD CHD Stroke* 800 All Cardiovascular Disease rate Per 100,000 Population 600 Heart Dis ase The Obesity. Diabetes, Inactivity HEADWIND 400 Stroke Death L 200 0 1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010 201

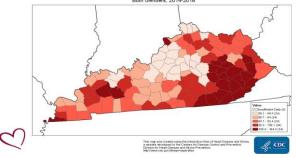
Heart Disease and Stroke Mortality Trends, 1950-2015

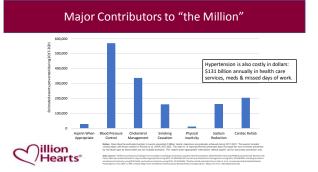
Heart Disease Mortality Rates County-level percent change in heart disease death rates, Ages 35-64, 2010-2015 Over 50% of counties had ncreases in heart disease mortality from 2010-2015.



Source: Adam Vaughan, mu, w Vaughan et al. Widespread rece wwws age groups. Annals of Ep

Avoidable Heart Disease and Stroke Death Rate per 100,000, All Races/Ethnicities,







	arts [®] 2022 and Goals	
Keeping People Healthy	Optimizing Care	
Reduce Sodium Intake	Improve ABCS*	
Decrease Tobacco Use	Increase Use of Cardiac Rehab	
Increase Physical Activity	Engage Patients in Heart-healthy Behaviors	
Improving Outcomes f	or Priority Populations	
Blacks/African Americ	ans with Hypertension	
35- to 64-year-olds due to rising event rates		
People who have had	a heart attack or stroke	
People with mental and/or subs	tance use disorders who smoke	
*Aspirin use when appropriate. Blo earts	od pressure control, Cholesterol management, Smoking cessation	

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



*Aspirin use when appropriate, BP control, Cholesterol management, Smoking cessatio

	Improving Outcomes for Priority Populations			
Priority Population	Objectives	Strategies		
Blacks/African Americans	Improving hypertension control	Deliver guideline-congruent treatment Problem-solve in med adherence Advance practice of out-of-readings Increase access to and participation in community-based activity programs		
35-64 year olds	Improving BP control & statin use Decreasing physical inactivity	 Implement treatment protocols Increase access to and participation in community-based activity programs 		
People who have had a heart attack or stroke	 Increasing cardiac rehab referral and participation Avoiding exposure to particulates 	 Use opt-out referral and CR liaison visits at discharge; ensure timely enrollment Increase use of Air Quality Index 		
People with mental and/or substance abuse disorders who smoke	Reducing tobacco use	Integrate tobacco cessation into behavioral health treatment Institute tobacco-free policy at treatment facilities Tailored quitline protocols		

Questions and Input

- What strikes you about this framework?
- How could you use this framework to accelerate progress in Kentucky cardiovascular and cerebrovascular health and care?
- What "pieces" of Million Hearts 2022 would you like hear about in more detail?



New in Million Hearts 2022

- Physical activity
- Cardiac Rehab
- Engaging Patients in Heart-healthy Behaviors
 Self-measured Blood Pressure Monitoring
- "Priority Populations"
- Particle pollution

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Cardiac Rehab Saves Lives and Improves Health Road-tested Strategies to Boost Participation

would save 25,000 lives and prevent 180,000 hospitalizations annually in the U.S. Philip A. Ades, HD, Steven J. Ketgenk, MD, Janes J. Way, MD, Janes J. Way,

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Cardiac Rehabilitation: What is it?

Comprehensive, team-delivered out-patient programs that

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

Typically administered in 36 sessions over ~12 weeks



Cardiac Rehabilitation: Who Benefits?

Strong evidence of benefit---and good insurance coverage---for individuals who have

- · Had a heart attack.1
- Stable angina.²
- Received a stent or angioplasty.3
- Heart failure with ejection fraction $\leq 35\%.^4$
- Undergone bypass, valve, or a heart, lung, or heart-
- lung transplant surgery.5-6



Cardiac Rehabilitation: What is the Impact?

- Reduces:
 - Death from all causes by 13-24%⁷
 - Death from cardiac causes by 26-31%⁷
 - Hospitalizations by 31%⁷
- Improves:
- Medication adherence
- · Functional status, mood, and Quality of Life scores7-11
- More is Better
 - 36 vs fewer sessions reduces risk of heart attack and death¹²
 - 25 sessions is generally considered a healthy "dose"¹³



Cardiac Rehabilitation: Is Referral the Problem?

- Referral to CR varies by qualifying condition
- ~80% for patients with a heart attack¹⁴
- ~60% for patients who undergo angioplasty¹⁵
- ~10% for patients with heart failure¹⁶

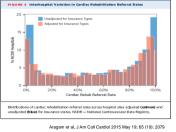
The strength of the physician's endorsement is the greatest predictor of CR participation.¹⁷



CR Referral After Cardiac Stent Striking Variation across Hospitals

- 60% overall referral rate
- The HOSPITAL was the most important factor for predicting referral rate
- Ranges from 0 to 100%





CR Referral: What are the System-Level Barriers?

Referral barriers include

- · Lack of awareness of the value of CR
- · No clear, consistent signal to patients and families
- CR program is not integrated into CV services
- · Eligible patients are not systematically identified
- No automated electronic referral process
- "Opt-in vs Opt-out" hospital discharge orders¹⁷



CR Participation: Who does—and does not--participate?

- · Participation rates vary by diagnosis
- Higher for heart attack (~14%) and bypass surgery (31%)¹⁹
 Lower for patients with heart failure (<3%)²⁰
- · Lower participation rates among
 - People of colorWomen
 - Elderly
 - People with co-morbidities or low socio-economic status^{19, 21}

Significant geographic variation^{22, 23}



CR Participation: What Barriers do Patients Face?

Participation barriers include

- Logistics
 - Transportation/parking
 - Convenient hoursProximity of programs
- Cost-sharing
- Competing responsibilities
- Competing responsibilities
 Cultural and language issues¹⁸



Only **20% to 30%** of eligible people in the U.S. are participating in cardiac rehabilitation.¹⁸

ke Death Rate per 100,000, All Races/Ethnicities, Senders, 2014-2016

Million Hearts CR Collaborative 2018-2021 Action Plan Objectives

- Increase awareness of the value of CR among health systems, clinicians, patients and families, employers, payers
- Increase use of best practices for referral, enrollment, and participation; address knowledge gaps.
- · Build equity in CR referral, participation, and program staffing
- Increase sustainability of CR programs through innovations in program design, delivery, and payment
- · Measure, monitor, report progress to the 70% aim

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Engaging Patients in Heart-healthy Behaviors

Avoidable Heart Disease and Str

- Self-Measured BP Monitoring
- Participation in
 - Diabetes Prevention Program
 - Chronic Disease Self-Management Program
- Cardiac Rehab
- In consideration
- · Shared Decision-making around statin use Keeping a Physical Activity log and sharing with clinical team



Self-Measured BP Monitoring

- · Strong evidence for SMBP + clinical support for achieving control
- 1:1 counseling · Group classes
- Web-based or telephonic support
- · Good evidence for SMBP for confirming
- diagnosis



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2017 Guidelines **SMBP** Recommendations

Refere		ecommendation for Out-of-Office and Self-Monitoring of BP support the recommendation are summarized in Online Data Supplement 3 and Systematic Review Report.
COR	LOE Recommendation	
i.	A ^{se}	 Out-of-office BP measurements are recommended to confirm the diagnosis of hypertension (Table 11) and for titration of BP-lowering medication, in conjunction with telehealth counseling or clinical interventions (1-4).
	-	createry.
Recom	mendati	on for Monitoring Strategies to Improve Control of BP in Patients on Drug Therapy for High BP at support the recommendation are summarized in Online Data Supplement 29.
Recom	mendati	on for Monitoring Strategies to Improve Control of BP in Patients on Drug Therapy for High BP



SMBP Implementation Challenges

- · Lack of a standard definition, protocol
- Distrust of readings
- Health IT limitations
- · Patient-generated data are not used in quality metrics
- · Coverage for or access to BP monitors
- · Reimbursement for clinician time to
- Train patients and families Validate monitors
 - · Interpret home readings and provide timely advice



Progress to the Ideal System?

- Compelling case for accuracy and OOO readings
 Billing codes or value-based contracting
 Performance measure(s) that consider OOO readings
 EZ, smart connection between patients and clinicians
 Exemplars and implementation guidance
- Activation of people with HTN to "own" their BPs



National SMBP Steering Committee and Forum

- Vision: SMBP will be accessible to everyone for diagnosis and management of hypertension
- National leaders--researchers, clinicians, public health experts, community organizations—are developing the roadmap
- Those committed to advancing SMBP are welcome to join the quarterly Million Hearts SMBP Forum





Million Hearts® Accelerating SMBP in Kentucky

Recommendation of SMBP

(e.g. Y BPSM)

Use of SMBP among HTN Patients

Referral to Community Program

- Health Center Teams • ARcare/KentuckyCare • Shawnee Christian Health Center
- White House Clinics
- Local YMCAs

YMCA of Greater Louisville

- Central Kentucky YMCA
 Local Public Health
- Purchase District Health Department
- State and Regional Organizations • Kentucky Health Center Network
- Kentucky State Alliance of YMCAs
 Kentucky Dept. for Public Health
- "We were really excited with the early success of our program. We saw a **5% increase** in the number of patients whose blood pressure work was controlled over a relatively short MCAs alth Stephanie Moore, MPA, CMIPE, CEO, White House Clinics

Kentucky SMBP Best Practices

- Develop a written protocol with detailed EHR screen shots
- Train ALL staff on executing the protocol → ensure a "warm handoff"
- Train and use CHWs to:
 Provide education on risk factors
- and lifestyle changes
- Document BP measurements and calculate averages
- Use CARE Collaborative BP log and educational materials

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CONGRATULATIONS	CAUTIONI	WARNING!
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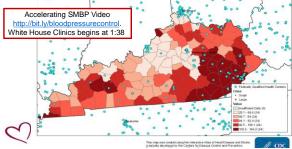
Avoidable Heart Disease and Stroke Death Rate per 100,000, All Races/Ethnicities, Both Genders, 2014-2016

Total Patients (Jul '17 – May '18)

716

477

39



SO..... What Can Kentuckians Do?

- Individual and Family Member
- Healthcare Professional
- Community Member and Public Health Expert
- Health System Leader
- Employer



You and Your Family

- · Aim for at least 150 min/week of physical activity
- · Read the labels for sodium and choose wisely
- Know and manage your ABCS
- Check the AQI and mitigate your exposure to PM 2.5
- Attend CR and encourage family and friends to do so



Healthcare Professional

- Prioritize and excel in the ABCS and CR referral
 - Teams—including pharmacists, nurses, community health workers, and cardiac rehab professionals Technology—decision support, patient portais, e- and default referrais, registries, and algorithms for find gaps in care Processes—treatment protocols; daily huddles, ABCS accrecards; proactive outreach; finding patients with undiagnosed high BP, high cholesterd, or tholaco use

 - cholesterol, or tobacco use Patient and Family Supports—training in home BP monitoring; prob solving in medication adherence; counseling on nutrition, physical act tobacco use, risks of particulate matter; referral to community-based physical activity programs and cardiac rehab



Community Members and Public Health Experts

- · Enact pricing strategies and smoke-free space policies, inclusive of e-cigarettes
- · Serve or request healthy food at all meetings, in all facilities
- · Contribute to healthy design of your community and to accessible, affordable, and safe places to be active
- · Improve awareness of the local air quality index
- · Build linkages between health systems and community resources



Health System Leader

Set Expectations and Equip Your Teams to

- Achieve 80% performance on the ABCS among
- ambulatory primary care and relevant specialty practices Achieve 90% referral to CR programs of those eligible
- Achieve 70% initiation rate among those eligible for CR
- Recognize/reward high performance on ABCS and CR



Million Hearts Employer

- · Adopt policies and practices to ensure clean air for employees, visitors, and staff
- Design benefits to enhance employee health:
- No cost-share for BP, statin, tobacco cessation meds, cardiac rehab Free BP monitors
- · Provide on-site BP monitoring with clinical support
- · Sponsor walking and other physical activity programs
- · Procure and label food consistent with national food service guidelines



Requests and Up-comings

- Join the CR Collaborative and/or the SMBP Forum
- · Visit millionhearts.hhs.gov
 - Hypertension Control Change Package
 - SMBP and Hiding in Plain Sight videos and guides
 - Million Hearts microsite for evergreen clinical resources

Coming soon

- Cardiac Rehab Change Package on website this September!
- Vital Signs in September with Kentucky's "share" of events
- · 2018 Hypertension Champions announced this fall

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Thank you

Resources and Additional Data

- More on Million Hearts 2022 at millionhearts.hhs.gov To join
- CR Collaborative, contact Haley Stolp at hstolp@cdc.gov
- SMBP Forum, email <u>MillionHeartsSMBP@nachc.org</u>
- · Reach me at janet.wright@cms.hhs.gov





Million Hearts® Microsite for Clinicians

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- Features Million Hearts[®] protocols, action guides, and other QI tools
- Syndicates LIVE Million Hearts[®] on your website for your clinical audience
- Requires a small amount of HTML code—customizable by color and responsive to layouts and screen sizes
- Content is free, cleared, and continuously maintained by CDC

Available at https://to

la.cdc.co



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New Resources

Million Hearts® 2022 web content

- Particle Pollution Physical Activity
- Tobacco Use

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- Partner Opportunities
- Cardiac Rehabilitation

· EPA's citizen science mobile app:

Smoke Sense



Resources for Finding those with Undiagnosed Hypertension

- · Maine Center for Disease Control and Prevention HIPS video -
- https://vimeo.com/136615637
- National Association of Community Health Centers Consolidated Change Package leverages HIT, QI, and care teams to identify hypertensive patients hiding in plain sight
- Hypertension Prevalence Estimator For practices/systems to use to estimate their expected hypertension prevalence
- Whiteboard animation a creative depiction of the "hiding in plain sight" phenomenon and what clinical teams can do
- https://millionhearts.hhs.gov/tools-protocols/hiding-plain-sight/index.html



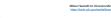


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- Action Guides
 Hypertension Control: Change Package for Clinicians
 Self-Measured Blood Pressure Monitoring: Action Steps for Clinicians
 Identifying and Treating Patients Who Use Tobacco: Action Steps for Clinicians
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 Identifying and Treating Patients Thiology of the Action Steps for Clinicians
 Identifying the Most of Health IT
 Million Hearts® DER Optimization Guides-how to find and use data on the ABCS
 Clinical Quality Measures
 Million Hearts® Action quality reporting on the ABCS measures by state
 the Tools
 outro Tobacco
 charts Estimator
 ASCVOR TAKE Estimator
 ASUP Action State Estimator
 Autor Champion Success Stories



Million Hearts **Million Hearts** Consumer Resources and Tools **Community Resources and Tools** Action Guides Sali-Measure Blood Pressure Monitoring: Action Steps for Public Health Medication Adherence: Action Steps for Public Health Practitioners Medication Adherence: Action Steps for Public Health Practitioners Medication Adherence: Action Steps for Public Managers Cardiovascular Health: Action Steps for Public Program State Public Health Actions Steps for Encyloyers CDC State Health Actions Steps for Public Programs State Public Health Actions to Provent and Control Dabates, Heart Disease, Obesity and Associated Risk Factors and Promote School Health (1305) Coverdell National Acute Stroke Program WilsEWGMAN Sodium Reduction in Communities Building IGS Capacity for Chronic Disease Surveillance Million Hearts Cardia: Rehab Collaborative Heart Age Predictor My Life Check ® High Blood Pressure: How to Make Control Your Goal heart age? Visit Checklist Supporting Your Loved One with High Blood Pressure • Blood Pressure Wallet Card Smoke Free (SF) Million Hearts Videos (on YouTube) Million Hearts E-Cards & Shareables Mind Your Risks Healthy Is Strong 100 Congregations for Million Hearts Tips from Former Smokers

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Self-Measured BP Resources

- Guidance for clinicians on:
- Training patients to use monitors
- Checking home machines for accuracy
- Suggested protocol for home monitoring
- Cuff loaner program
- <u>https://millionhearts.hhs.gov/too</u> <u>ls-protocols/smbp.html</u>



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Physical Activity · Create or Design communities and streets that support · Develop and enhance access promote to places for physical activity peer support groups physical activity GirlTrek Walkboc min Ranzas CIX illion /Hearts

Tips for Communities to Improve

Million Clicks for Million Hearts®

- Allentown, PA Health Bureau program
- 10 click-in stations on walking paths around the city
- Participants tap a keytab to track their walks
 PRIZES!







- PM_{2.5} refers to particulate matter of 2.5 micrometers or less in diameter
- Exposure is linked to an increase in risk of heart attacks, strokes, and rhythm disorders
- Particle pollution info on Million Hearts <u>website</u>







Image source: EPA, Office of Research and Development http://www.ece.cov/orr-collution/particulate-matter-on-basics/PA

Populations At-Risk Are Known

- Susceptible populations include –

 Populations with pre-existing respiratory disease
 Populations with pre-existing cardiovascular disease
- •
- Adults 65 years of age and older
- Populations with lower socio-economic statusChildren & the developing fetus

Populations suspected to be at greater risk -

- Populations with chronic inflammatory diseases
- Populations will clinoline immanifiably diseases
 (e.g., diabetes, obesity)
 Populations with specific genetic polymorphisms
 (e.g., GSTM1) mediate physiologic response to air
 illionpollution
 Hearts*

The NEW ENGLAND JOURNAL of MEDICINE	
ORIGINAL ARTICLE	
A Cluster-Randomized Trial of Blood-	Lessons 1. Community care
Pressure Reduction in Black Barbershops	 Pharmacists prescribed dual
Ronald G. Victor, M.D., Kathleen Lynch, Pharm.D., Ning Li, Ph.D., Ciantel Blyler, Pharm.D., Eric Muhammad, B.A., Joel Handler, M.D., Joffen Roteller, M.D., Mohamad Rashid, M.B., Ch.B., Rotet Hay, B.S.	therapy by protoco 3. Frequent contact 4. Aimed for lower
Davontae Foxo-Drew, B.A., Norma Moy, B.A., Anthony E. Reid, M.D.,* and Robert M. Elashoff, Ph.D.	target MargolisKL, n engl j med 378;14 nejm.org.April 5, 2018
	ORJGINAL ARTICLE A Cluster-Randomized Trial of Blood- Pressure Reduction in Black Barbershops Rend G Vieter, MD, Kelleen Juck, Panno D, Megi Li PD, Careford Berger, Panno D, Kong Li, Cha, Berg Heng, R.S., Destrater and Deres BA, Nemes MB, BL, Arberger E, ML, ML, *

What is THIS?





What is JUUL?

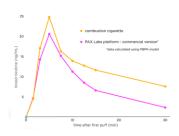
- Electronic vaporizer that uses nicotine salts
- Promoted as a "satisfying alternative to cigarettes"
- "By accommodating cigarette-like nicotine levels, JUUL provides satisfaction to meet the standards of smokers looking to switch from smoking cigarettes."
- Available in tobacco, fruit, mint and other flavors .
- Every JUUL flavored pod contains nicotine





https://www.juulvapor.com/

JUUL – Nicotine Delivery





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