

# Healthy People 2020 Progress Review









### Preserving Your Healthy Lifespan: Preventing and Managing Chronic Musculoskeletal and Cardiovascular Diseases

#### Jewel Mullen, MD, MPH, MPA Principal Deputy Assistant Secretary for Health February 28, 2017







#### Chair

 Jewel Mullen, MD, MPH, MPA, Principal Deputy Assistant Secretary for Health, U.S. Department of Health and Human Services

#### Presentations

- Charles Rothwell, MBA, MS, Director, National Center for Health Statistics
- Gary Gibbons, MD, Director, National Heart Lung and Blood Institute, NIH
- Walter Koroshetz, MD, Director, National Institutes of Neurological Disorders and Stroke, NIH
- Wayne Giles MD, MS, Director, Division for Heart Disease and Stroke Prevention, CDC
- Joan McGowan, PhD, Director of the Division of Musculoskeletal Diseases, National Institute of Arthritis Musculoskeletal and Skin Diseases, NIH
- Kurt Greenlund, PhD, Acting Director, Division of Population Health, CDC

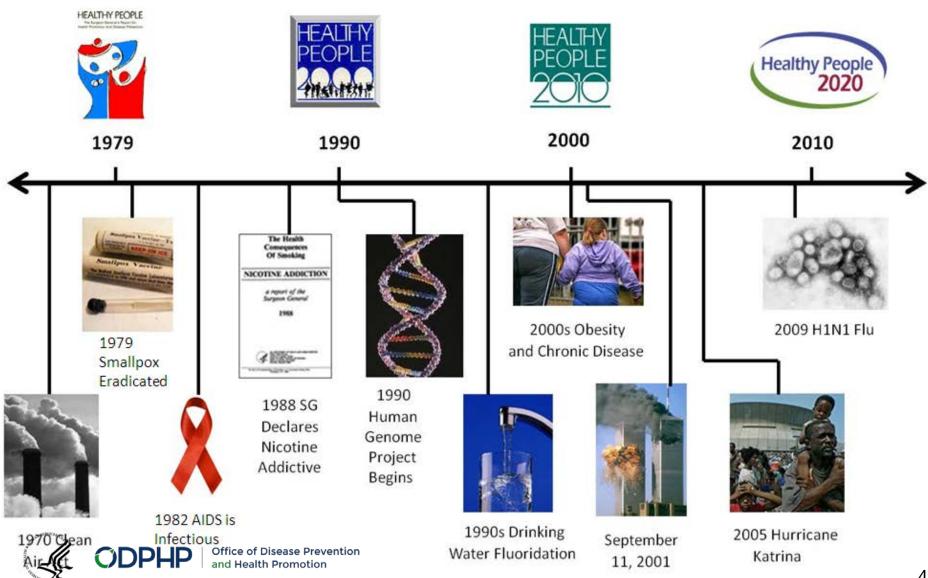
#### **Community Highlight**

 Matt Longjohn, MD, MPH National Health Officer, Vice President of Community Integrated Health, YMCA of the USA



#### **Healthy People at the Forefront** of Public Health





#### **Evolution of Healthy People**



	1990	2000	2010	2020
Target Year	HANTHY PECKE Dealer have been at the left Dealer have been at th		HEALTHY PEOPLE 2010	Healthy People 2020
Overarching Goals	<ul> <li>Decrease mortality: infants-adults</li> <li>Increase independence among older adults</li> </ul>	<ul> <li>Increase span of healthy life</li> <li>Reduce health disparities</li> <li>Achieve access to preventive services for all</li> </ul>	<ul> <li>Increase quality and years of healthy life</li> <li>Eliminate health disparities</li> </ul>	<ul> <li>Attain high-quality, longer lives free of preventable disease</li> <li>Achieve health equity; eliminate disparities</li> <li>Create social and physical environments that promote good health</li> <li>Promote quality of life, healthy development, healthy behaviors across life stages</li> </ul>
# Topic Areas	15	22	28	42
# Objectives/ Measures	226	312	<b>1,</b> 000	5 ~1,200

# Heart Disease and Stroke in the United States



- Heart Disease is the leading cause of death in the U.S.
- It includes several types of heart conditions, such as:
  - Coronary artery disease
  - Chest pain (angina)
  - Heart attack
- Stroke, the 5th leading cause of death, occurs when the flow of oxygenated blood to the brain is blocked
- Cardiovascular diseases (CVD) cost \$316.1 billion annually in 2012-2013
  - \$189.7 billion direct costs
  - \$126.6 billion indirect costs

SOURCE: https://www.healthypeople.gov/2020/topics-objectives/topic/heart-disease-and-stroke https://www.cdc.gov/heartdisease/



#### **Prevention Matters**

- Controllable risk factors
  - High blood pressure
  - o High cholesterol
  - o Cigarette smoking
  - o Diabetes
  - Poor diet and physical inactivity
  - Overweight and obesity
- 29.5% of adults are affected by high blood pressure, half of them have it under control

SOURCE: https://www.healthypeople.gov/2020/topics-objectives/topic/heart-disease-and-stroke







# Arthritis, Osteoporosis, and Chronic Back Conditions

- Arthritis more than 100 types
- Commonly occurs with other chronic conditions
  - o Diabetes
  - Heart disease
  - o Obesity



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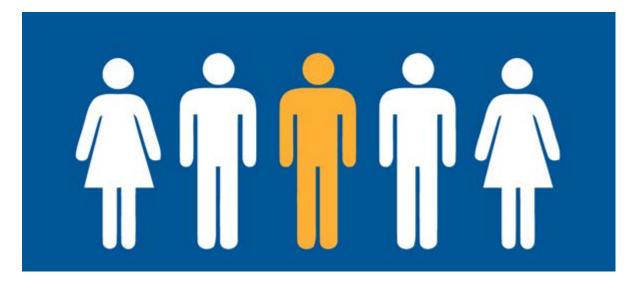
- Osteoporosis is marked by low bone mass and a reduction in bone strength
  - Increased risk of broken bones
- Chronic back pain
  - Lasts for more than three months
  - Can become progressively worse and reoccur
  - Outlasts the usual healing process

SOURCE: https://www.healthypeople.gov/2020/topics-objectives/topic/Arthritis-Osteoporosis-and-Chronic-Back-Conditions



### **Arthritis in the United States**





- 1 in 5 adults has arthritis
- Arthritis is a leading cause of disability
- Costs are projected to increase over time

SOURCE: https://www.healthypeople.gov/2020/topics-objectives/topic/Arthritis-Osteoporosis-and-Chronic-Back-Conditions



### Osteoporosis and Chronic Back Conditions

- 5.3 million people (50 years and older) have osteoporosis at the hip
- Half of all women and 1 in 4 men will have osteoporosis related fractures in their lifetime



80% of Americans experience low back pain in their lifetime

SOURCES: <u>https://</u>www.healthypeople.gov/2020/topics-objectives/topic/Arthritis-Osteoporosis-and-Chronic-Back-Conditions https://www.ninds.nih.gov/Disorders/Patient-Caregiver-Education/Fact-Sheets/Low-Back-Pain-Fact-Sheet



#### Preserving Musculoskeletal Health

- Start early with healthy habits
  - Adequate dietary calcium and vitamin D, and,
    Physical activity
- Maintain physical activity and a healthy weight throughout life for bone, joint, and spine health
- Avoid sports injuries through proper training and equipment use

SOURCE: https://www.niams.nih.gov/health\_info/bone/SGR/surgeon\_generals\_report.asp





### Charles Rothwell, MBA, MS Director, National Center for Health Statistics Centers for Disease Control and Prevention







# **Presentation Overview**

Tracking the Nation's Progress

Arthritis, Osteoporosis, and Chronic Back Conditions

Heart Disease and Stroke



**Healthy Peop** 

## Tracking the Nation's Progress

18 HP2020 Measurable Arthritis, Osteoporosis, and Chronic Back Conditions Objectives:

- 2 Target met
- 13 Little or no detectable change
- 3 Getting worse

37 HP2020 Measurable Heart Disease and Stroke Objectives:

- 15 Target met
  - 8 Improving
- 10 Little or no detectable change
  - 2 Getting worse
  - 1 Baseline data only
  - 1 Informational

NOTES: The Arthritis, Osteoporosis, and Chronic Back Conditions Topic Area added 4 developmental objectives on generic pain issues in 2014, which are not addressed in this Progress Review. The Heart Disease and Stroke Topic Area contains 13 developmental objectives. Measurable objectives are defined as having at least one data point currently available, or a baseline, and anticipate additional data points throughout the decade to track progress. Informational objectives are also measurable objectives, however, they do not have a target associated with their data.

**Healthy People** 

# Presentation Outline



- Tracking the Nation's Progress
- Arthritis, Osteoporosis, and Chronic Back Conditions
  - Burden
  - Activity Limitations due to Arthritis and Chronic Back Conditions
  - Counseling for Weight Reduction and Physical Activity among Adults with Arthritis
  - Osteoporosis Prevalence
- Heart Disease and Stroke

# **Burden of Arthritis**



- Arthritis is a leading cause of disability.
- In 2015, 55.4 million (22.9%) adults aged 18 and over in the United States had doctor-diagnosed arthritis.
- In 2015, 58% of adults with doctor-diagnosed arthritis were in the working age population (18-64); 42% were in the older adult population (65+).
- By 2040, the prevalence of arthritis is projected to increase 42% to 78.4 million (25.9% of U.S. adults).

SOURCES: Brault MW, Hootman JM, Helmick CG, Theis KA, Armour BS. Prevalence and most common causes of disability among adults--United States, 2005. MMWR: Morbidity and Mortality Weekly Report. 2009;58(16):421-6. Blackwell DL, Villarroel MA. Tables of Summary Health Statistics for U.S. Adults: 2015 National Health Interview Survey. National Center for Health Statistics. 2016. Available from: <u>https://ftp.cdc.gov/pub/Health\_Statistics/NCHS/NHIS/SHS/2015\_SHS\_Table\_A-4.pdf</u>. Hootman JM, Helmick CG, Barbour KE, Theis KA, Boring MA. Updated projected prevalence of self-reported doctor-diagnosed arthritis and arthritis-attributable activity limitation among US adults, 2015-2040. Arthritis and Rheumatology. 2016;68(7):1582-7

# Burden of Osteoporosis and Chronic Back Conditions



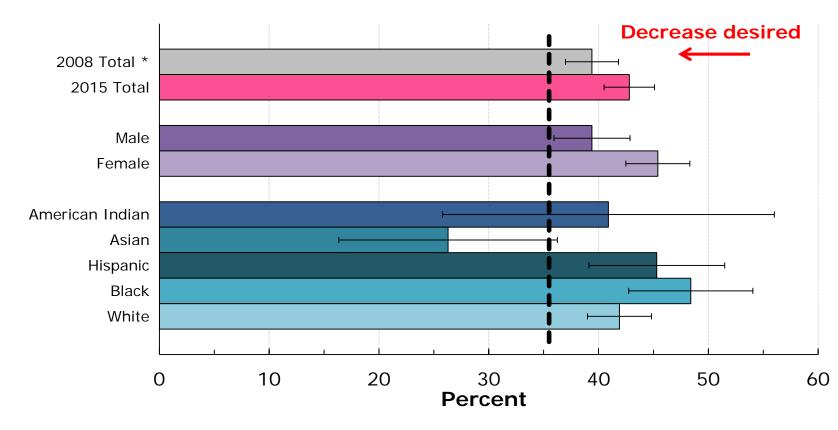
- Osteoporosis is a major risk factor for fracture.
- In 2013-14, 7.3% of adults aged 50 and over had osteoporosis at the hip (age-adjusted).
- Common causes of chronic back pain are osteoarthritis and disc degeneration.
- In 2015, 8.4 million adults aged 18 and over had activity limitations due to chronic back or neck pain.
- In 2015, among broad age groups of adults, prevalence of low back or neck pain is highest for persons aged 45 to 64.

SOURCES: US Dept. of Health and Human Services, Public Health Service, Office of the Surgeon General. Bone health and osteoporosis: A report of the Surgeon General. Rockville, MD: US GPO; 2004, p. 436. Available from: <u>http://www.ncbi.nlm.nih.gov/books/NBK45513/pdf/TOC.pdf</u>

National Health and Nutrition Examination Survey (NHANES), CDC/NCHS. National Health Interview Survey (NHIS), CDC/NCHS. Manek NJ, Macgregor AJ. Epidemiology of back disorders: Prevalence, risk factors, and prognosis. Curr Opin Rheumatol. 2005;17:134-40.

## Activity Limitations Due to Arthritis, Adults 18+ Years with Arthritis, 2015

HP2020 Target: 35.5%

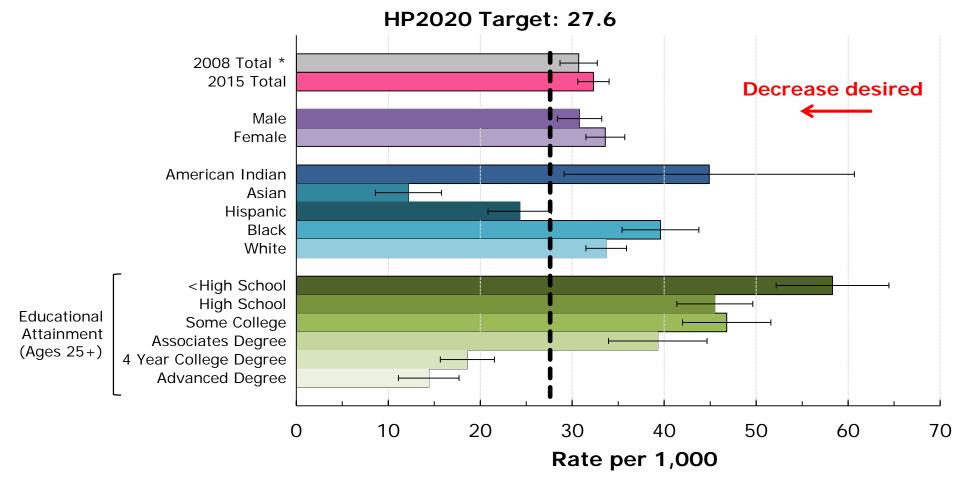


NOTES: - = 95% confidence interval. \*2008 Total = HP2020 baseline. Data are for adults aged 18 years and over with doctordiagnosed arthritis who are limited in any way in usual activities because of arthritis or joint symptoms. Black and White exclude persons of Hispanic origin. Persons of Hispanic origin may be any race. American Indian includes Alaska Native. Respondents were asked to select one or more races. Data for the single race categories shown are for persons who reported only one racial group. Data are age-adjusted to the 2000 standard population.

SOURCE: National Health Interview Survey (NHIS), CDC/NCHS.

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## Activity Limitations Due to Chronic Back or Neck Conditions, Adults 18+ Years, 2015



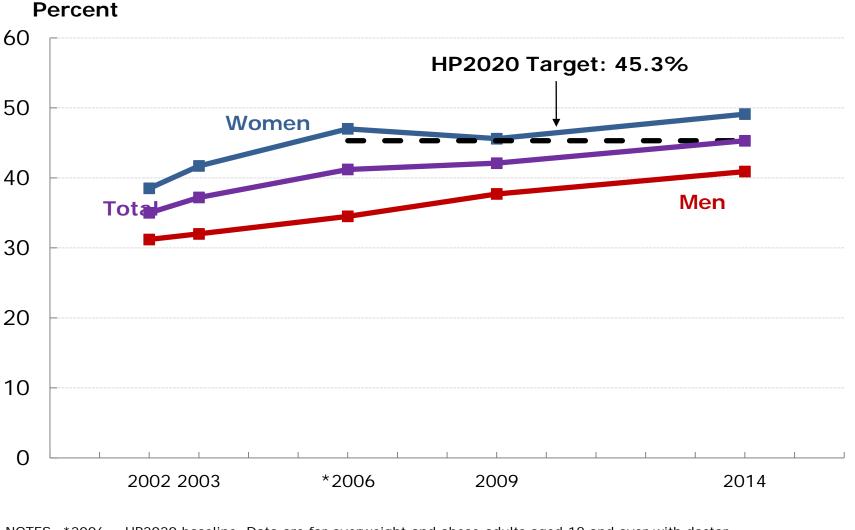
NOTES: - = 95% confidence interval. \*2008 Total = HP2020 baseline. Data are for adults with a limitation in activity due to chronic back or neck problems. Data (except those by education) are for adults 18 years and over. Black and White exclude persons of Hispanic origin. Persons of Hispanic origin may be any race. American Indian includes Alaska Native. Respondents were asked to select one or more races. Data for the single race categories shown are for persons who reported only one racial group. Education data are for adults aged 25 years and over. Data are age-adjusted to the 2000 standard population.

SOURCE: National Health Interview Survey (NHIS), CDC/NCHS.

Obj. AOCBC-12

19

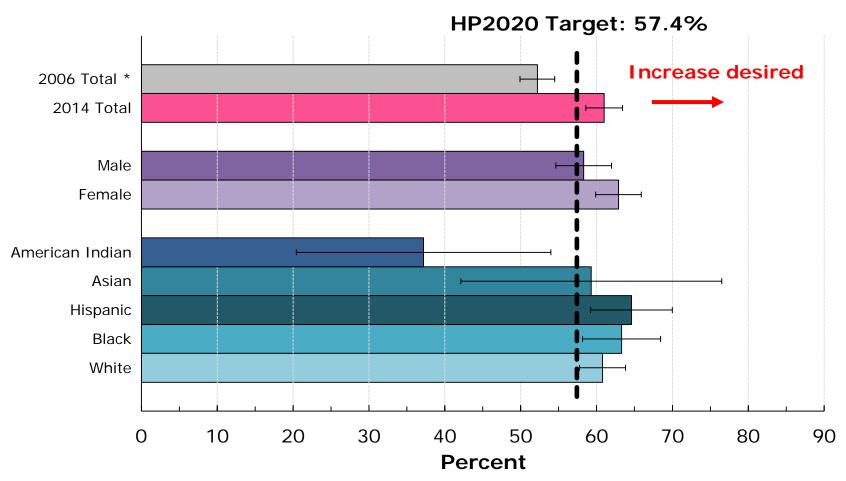
#### Weight Reduction Counseling, Overweight or Obese Adults 18+ Years with Arthritis



NOTES: \*2006 = HP2020 baseline. Data are for overweight and obese adults aged 18 and over with doctordiagnosed arthritis who received weight-reduction counseling from their health care provider to help arthritis or joint symptoms prime age adjusted to the 2000 standard population. 20 SOURCE: National Health Interview Survey (NHIS), CDC/NCHS.

**Obj. AOCBC-7.1** Increase desired

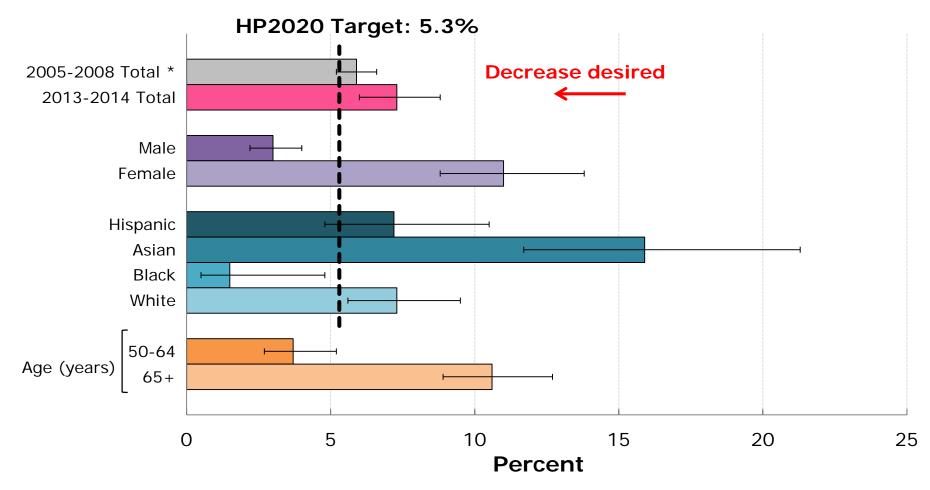
## Counseling for Physical Activity or Exercise, Adults 18+ Years with Arthritis, 2014



NOTES: – = 95% confidence interval. \*2006 Total = HP2020 baseline. Data are for adults aged 18 years and over with doctor-diagnosed arthritis who received health care provider counseling for physical activity or exercise to help arthritis or joint symptoms. Black and White exclude persons of Hispanic origin. Persons of Hispanic origin may be any race. American Indian includes Alaska Native. Respondents were asked to select one or more races. Data for the single race categories shown are for persons who reported only one racial group. Data are age-adjusted to the 2000 standard population. SOURCE: National Health Interview Survey (NHIS), CDC/NCHS.

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## Osteoporosis at the Hip, Adults 50+ Years, 2013-2014



SOURCE: National Health and Nutrition Examination Survey (NHANES), CDC/NCHS.

Obj. AOCBC-10

22

# Presentation Outline



- Tracking the Nation's Progress
- Arthritis, Osteoporosis, and Chronic Back Conditions
- Heart Disease and Stroke
  - Burden
  - Deaths
  - Hypertension Prevalence and Control
  - Awareness of Stroke Symptoms and Response

## Burden of Heart Disease and Stroke

- In 2015, heart disease (633,842 deaths) was the leading cause of death, and stroke (140,323 deaths) was the fifth leading cause of death in the United States.
- In 2014, about 16.5 million adults aged 20 and over had coronary heart disease (CHD).
  - Each year, approximately 1.0 million adults aged 35 and over experience a new or recurrent heart attack or fatal CHD.
- In 2014, 7.2 million adults aged 20 and over have ever had a stroke.
  - Each year approximately 795,000 people (all ages) experience a new or recurrent stroke.

SOURCES: National Vital Statistics System—Mortality (NVSS-M), CDC/NCHS; Bridged-Race Population Estimates, CDC/NCHS and Census. Benjamin EJ, Blaha MJ, Chiuve SE, et al. Heart Disease and Stroke Statistics-2017 Update: A Report From the American Heart Association. *Circulation*. 2017;135:00–00.

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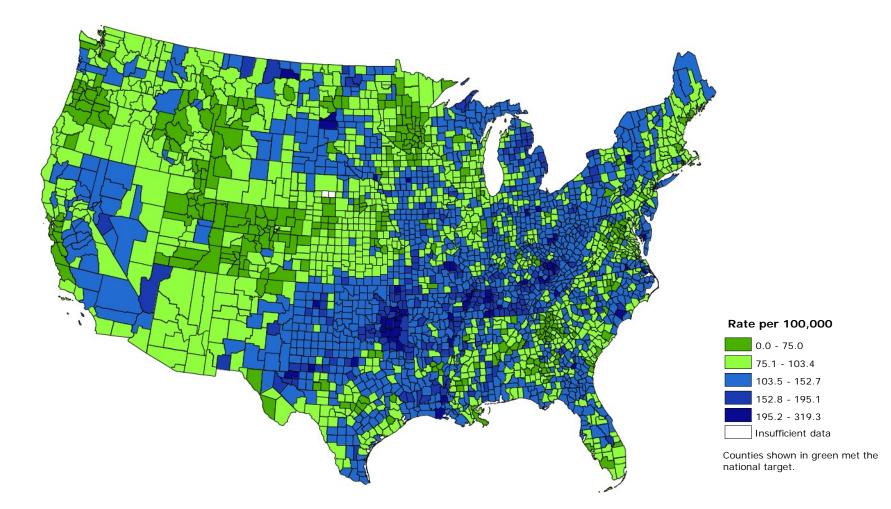
## Burden of Heart Disease and Stroke

- Healthy People 2020
- The leading modifiable risk factors for heart disease and stroke are:
  - High blood pressure
  - High cholesterol
  - Cigarette smoking
  - Diabetes
  - Poor diet and physical inactivity
  - Overweight and obesity
- In 2011-14:
  - 29.5% of adults aged 18 and over had hypertension (75 million U.S. adults)
  - 50.3% of adults aged 18 and over with hypertension had their condition under control
  - 47.9% of adults aged 20 and over had normal total cholesterol levels (<200 mg/dL)</li>

NOTES: Hypertension is defined among adults, excluding pregnant women, as systolic blood pressure  $\geq$ 140 mmHg or diastolic blood pressure  $\geq$ 90 mmHg or taking blood pressure lowering medication. Blood pressure control is defined as systolic blood pressure <140 mmHg and diastolic blood pressure <90 mmHg among adults with hypertension. Data are age-adjusted to the 2000 standard population. SOURCES: Merai R, Siegel C, Rakotz M, et al. CDC Grand Rounds: A Public Health Approach to Detect and Control Hypertension. MMWR Morb Mortal Wkly Rep 2016;65:1261–1264. National Health and Nutrition Examination Survey (NHANES), CDC/NCHS.

#### Coronary Heart Disease Deaths by County, 2013–2015

National Target = 103.4 per 100,000 population • National Total = 99.6 per 100,000 population

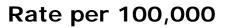


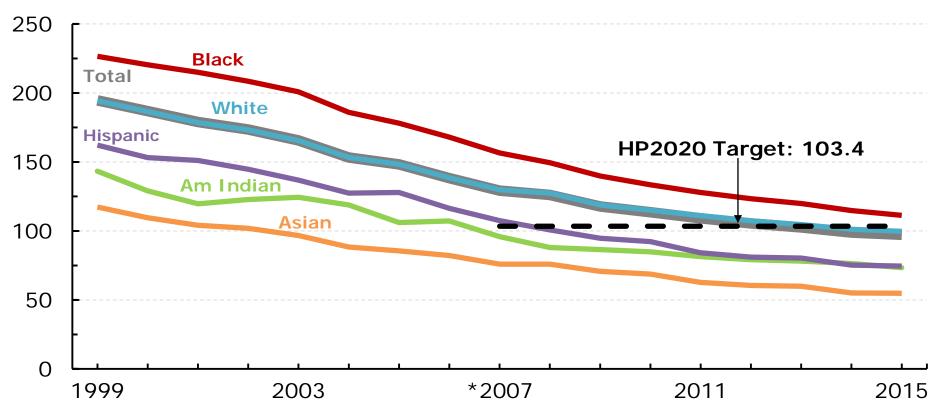
NOTES: Data are for ICD-10 codes I20-I25 reported as the underlying cause of death. Rates are age-adjusted to the 2000 standard population. Rates are spatially smoothed to enhance the stability of rates in counties with small populations. Data are displayed by a modified Jenks classification for U.S. counties which creates categories that minimize within-group variation and maximize batward-group variations.

SOURCES Mation 24 Har Statistics System Mortality (NVSS—M), CDC/NCHS; Bridged—race Population Estimates, CDC/NCHS and Census. Interactive Atlas of Heart Disease and Stroke, CDC/NCCDPHP <u>http://nccd.cdc.gov/DHDSPAtlas/</u>.

Obj. HDS-2Decrease desired26

# **Coronary Heart Disease Deaths**



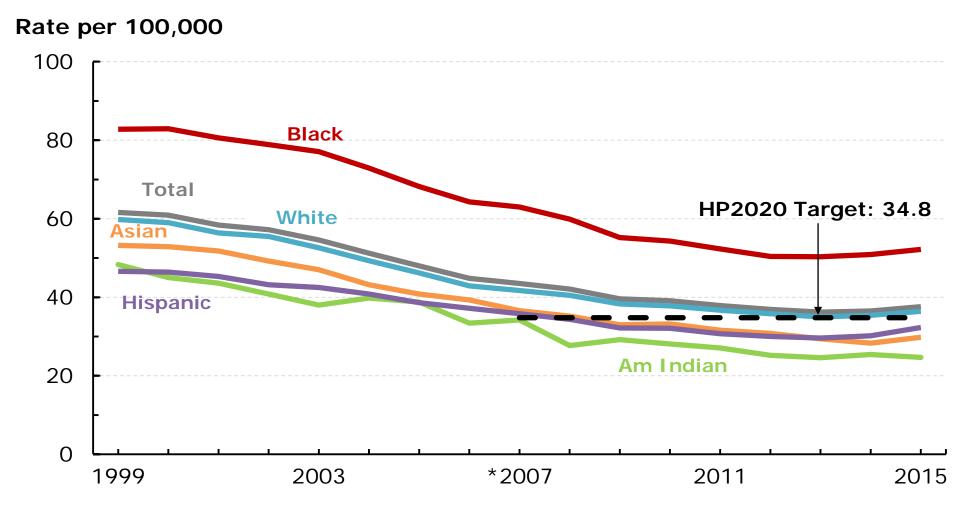


NOTES: \*2007 = HP2020 baseline. Data are for ICD-10 codes I20–I25 reported as underlying cause of death and are age-adjusted to the 2000 standard population. Prior to 2003, only one race could be recorded; recording more than one race was not an option. Beginning in 2003 multiple-race data were reported by some states; multiple-race data were bridged to the single-race categories for comparability. American Indian includes Alaska Native. Asian includes Pacific Islander. Black and White exclude persons of Hispanic origin. Persons of Hispanic origin may be of any race.

SOURCE: National Vital Statistics System—Mortality (NVSS—M), CDC/NCHS; Bridged—race Population Estimates for Census 2000 and 2010, CDC/NCHS and Census.

**Obj. HDS-2** Decrease desired 27

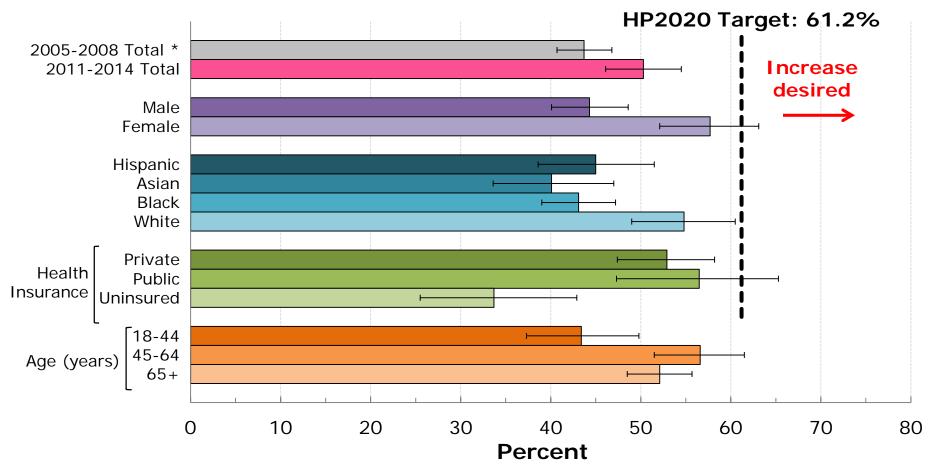
## **Stroke Deaths**



NOTES: \*2007 = HP2020 baseline. Data are for ICD-10 codes I60–I69 reported as underlying cause of death and are age-adjusted to the 2000 standard population. Prior to 2003 only one race category could be recorded; recording more than one race was not an option. Beginning in 2003 multiple-race data were reported by some states; multiple-race data were bridged to the single-race categories for comparability. American Indian includes Alaska Native. Asian includes Pacific Islander. Black and White exclude persons of Hispanic origin. Persons of Hispar c) by n (b) be of any race. Obj. HDS-3 SOURCE National vital Statistics System—Mortality (NVSS—M), CDC/NCHS; Bridged—race Population Decrease desired 28

Estimates, CDC/NCHS and Census.

## Blood Pressure Control, Adults 18+ Years with Hypertension, 2011–2014



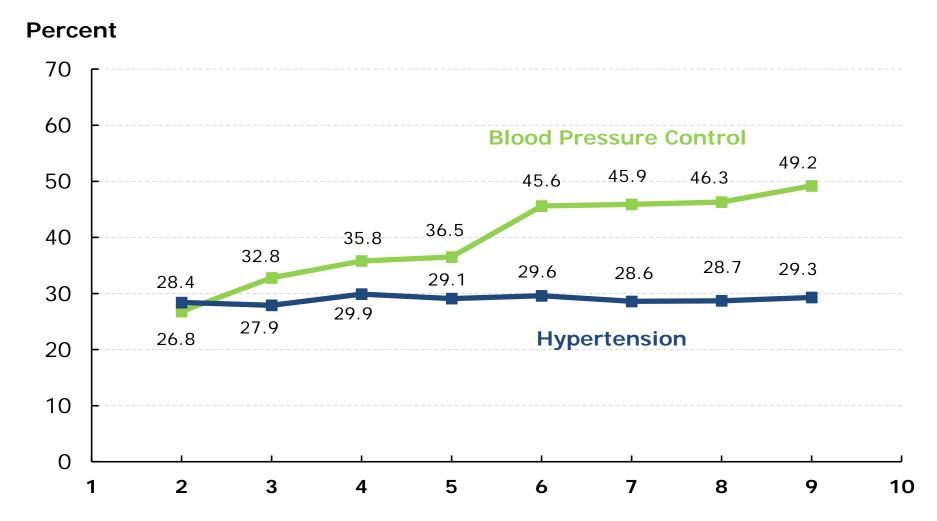
NOTES: - = 95% confidence interval. \*2005-2008 Total = HP2020 baseline. Blood pressure control is defined as systolic blood pressure <140 mmHg and distolic blood pressure <90 mmHg among adults with hypertension. Hypertension is defined among adults, excluding pregnant women, as systolic blood pressure ≥140 mmHg or diastolic blood pressure ≥90 mmHg or taking blood pressure lowering medication. Data (except those by insurance status) are for adults aged 18 years and over unless otherwise stated. Data by health insurance status are for adults aged 18-64 years. Data (except those by age group) are age-adjusted to the 2000 standard population. The categories Asian, Black and White exclude persons of Hispanic origin. Persons of Hispanic origin may be any race. Respondents were asked to select one or more races. Data for the single race categories are for persons who reported only one racial group. Target does not apply to age groups.

SOURCE: National Health and Nutrition Examination Survey (NHANES), CDC/NCHS.

#### Obj. HDS-12

29

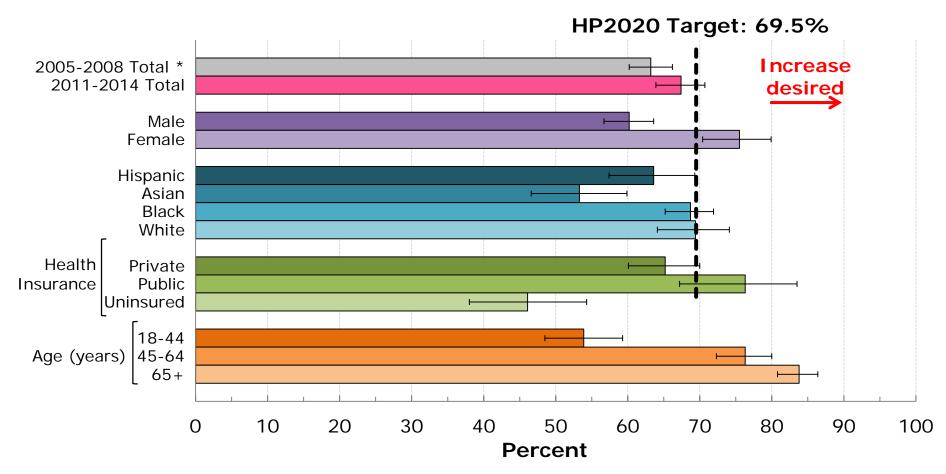
## Hypertension Prevalence and Blood Pressure **Control**, Adults 18+ Years



NOTES: Blood pressure control is defined as systolic blood pressure <140 mmHg and distolic blood pressure <90 mmHg among adults aged 18 years and over with hypertension. Hypertension is defined among adults aged 18 years and over, excluding pregnant women, as systolic blood pressure ≥140 mmHg or diastolic blood pressure ≥90 mmHg or taking blood pressure lowering medication. Data are age-adjusted to the 2000 standard population. Related Objs. HDS-5.1, 12

SOURCE: National Health and Nutrition Examination Survey (NHANES), CDC/NCHS.

#### Prescribed Blood Pressure Medication Use, Adults 18+ Years with Hypertension, 2011–2014

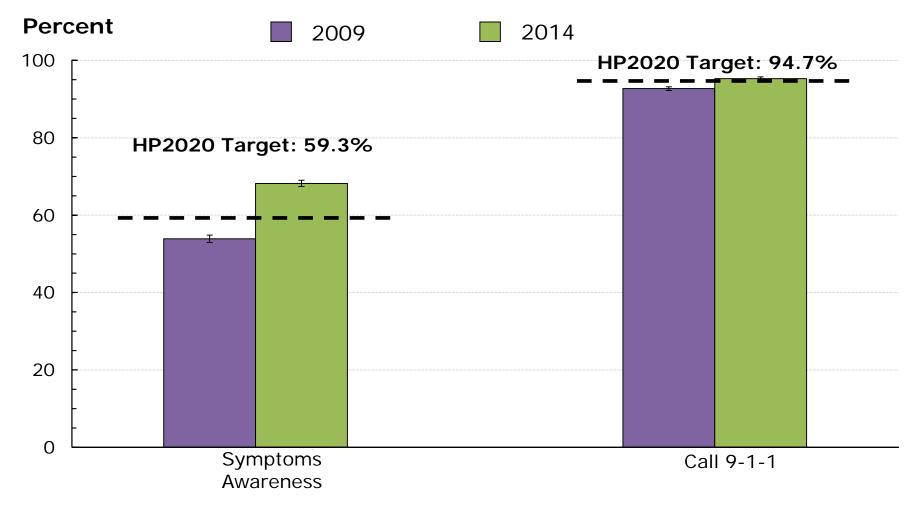


NOTES: - = 95% confidence interval. \*2005-2008 Total = HP2020 baseline. Data are for adults with hypertension who are taking prescribed medication to lower their blood pressure. Hypertension is defined among adults, excluding pregnant women, as systolic blood pressure  $\geq$ 140 mmHg or diastolic blood pressure  $\geq$ 90 mmHg or taking blood pressure lowering medication. Data (except those by insurance status) are for adults aged 18 years and over unless otherwise stated. Data by health insurance status are for adults aged 18-64 years. Data (except those by age group) are age-adjusted to the 2000 standard population. The categories Asian, Black and White exclude persons of Hispanic origin. Persons of Hispanic origin may be any race. Respondents were asked to select one or more races. Data for the single race categories are for persons who reported only one racial group. Target does not apply to age groups.

SOURCE: National Health and Nutrition Examination Survey (NHANES), CDC/NCHS.

Obj. HDS-11

# Awareness of Stroke Symptoms and the Importance of Calling 9–1–1, Adults 20+ Years



NOTES: I = 95% confidence interval. Data are for adults aged 20 years and over who are aware of the early warning symptoms and signs of a stroke and the importance of accessing rapid emergency care by calling 9-1-1 or another emergency number. Data are ageadjusted to the 2000 standard population are prevention

SOURCE: National Health Interview Survey (NHIS), CDC/NCHS.

Objs. HDS-17.2, 17.3 Increase desired

#### Key Takeaways - Arthritis, Osteoporosis, and Chronic Back Conditions

#### Arthritis

- Prevalence is increasing.
- Arthritis is a leading cause of disability.
- Although counseling for physical activity/exercise and weight reduction met the targets, activity limitations due to arthritis is getting worse.
- Disparities persist by race and sex.

#### Osteoporosis

Prevalence is increasing, and is higher among women than men.

#### Chronic Back Conditions

- There was little or no change in activity limitations.
- Disparities persist by race, sex, and education.

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#### Key Takeaways - Heart Disease and Stroke

- Heart disease and stroke deaths are the first and fifth leading causes of death, respectively.
- Coronary heart disease deaths declined, meeting the HP2020 target. Rates varied by county with half meeting the HP2020 target.
- Stroke symptom awareness and response have improved.
- Although there has been little or no change in hypertension prevalence, there has been improvement in hypertension treatment and control.
- Disparities persist by race/ethnicity, sex, age, educational attainment, and health insurance status.

# NIH Activities Supporting Heart Disease and Stroke Objectives

Gary H. Gibbons, MD Director National Heart, Lung, and Blood Institute National Institutes of Health

Walter Koroshetz, MD Director National Institute of Neurologic Disorders and Stroke National Institutes of Health









National Institute of Neurological Disorders and Stroke

# **NIH Mission**



## **Turning Discovery into Health**

NIH's mission is to seek fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability.

#### Select HP2020 Heart Disease and Stroke Objectives

- Increase overall cardiovascular health
- Reduce deaths from heart disease and stroke
- Reduce high blood pressure
- Increase adherence to lifestyle guidelines
- Increase appropriate response to heart attack and stroke

Risk Factors			
High blood pressure			
Cigarette Smoking			
High blood cholesterol			
Overweight/Obesity			
Physical Inactivity			
Diabetes			
Family history			
Age			

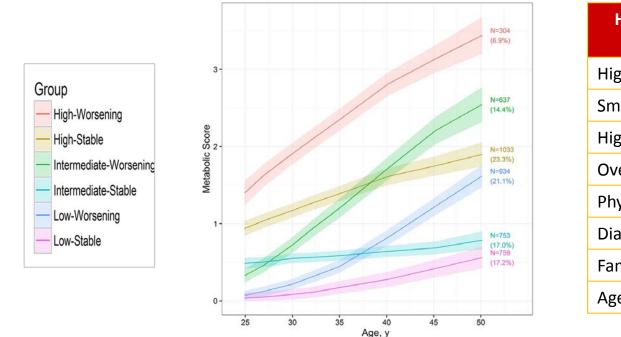






#### The Myth: CVD is a Disease of Elderly Men The Science: CVD Risk Emerges Early in Life





Heart Disease and Stroke Risk Factors
High blood pressure
Smoking
High blood cholesterol
Overweight/Obesity
Physical inactivity
Diabetes
Family history
Age

Risk emerges early. High blood cholesterol in early adulthood, if untreated, predicts worse outcomes later in life. Focus on diet, body weight and maintenance of physical activity are important early in life.

HP2020 Goal: Increase overall cardiovascular health in the U.S. population.





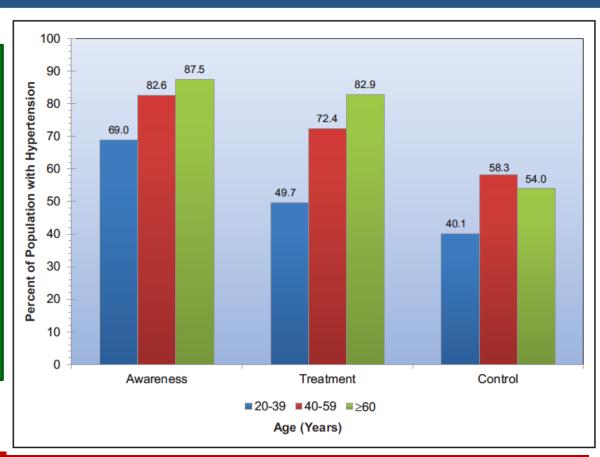
### High Blood Pressure: Unfinished Business and New Opportunities to Seize

 Leading risk factor for heart disease and stroke

- Present in 34% of adults
- Present in almost 50% of African Americans

Only ~50% have their high blood pressure controlled.

HP2020 Goal: Increase measurement and awareness of blood pressure





A randomized trial of intensive versus standard blood pressure control: Target SBP <120 mmHg for CVD prevention



Benjamin E et al. Circulation. 2017;135:00



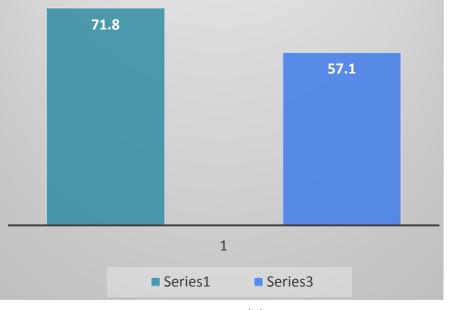
**Healthy Peop** 

# What are innovative strategies to improve HBP control?



#### The HyperLink Study

Telemonitoring and Case Management for Blood Pressure Control



JAMA. 2013;310(1):46-56





Compared to usual care, telephone monitoring and pharmacist case management resulted in better blood pressure control during the intervention and afterwards.

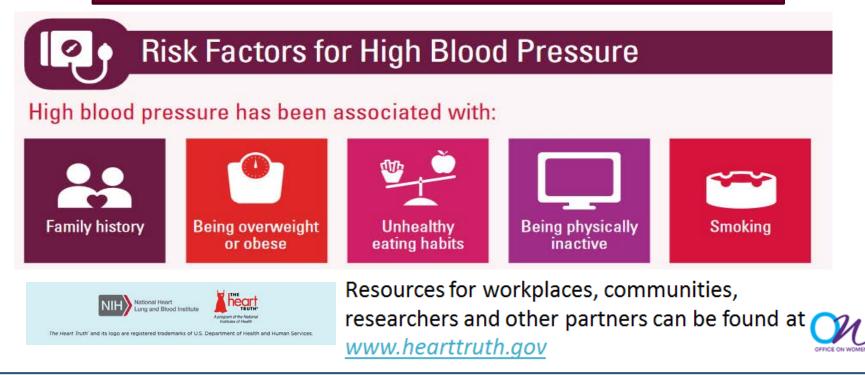
HP2020 Goal: Reduce the proportion of adults with high blood pressure.



# Raising Heart Disease Awareness: February is American Heart Month



- Promoting awareness of heart disease and its risk factors.
- Educating and motivating towards action to prevent the disease and control its risk factors.
- Small changes can make a big differences







# **Programs Addressing Stroke and Hypertension Disparities**



#### Reasons for Geographic and Racial Differences in Stroke (REGARDS)

(<u>http://www.regardsstudy.org/</u>): national cohort study of ~30,000 U.S. adults

- Higher stroke death rates in blacks vs whites, and for stroke belt residents vs non-stroke belt residents
- Higher mortality in blacks likely due to 3x higher stroke rates in middle age and higher prevalence of modifiable risk factors
- Excess stroke in blacks costs over \$3 billion per year

#### NINDS Stroke Prevention Intervention Research Program

- Stroke prevention, blood pressure control interventions in minority communities in 4 regions across the country
- Multi-level: health systems, healthcare providers, communities, patients
- Stakeholder engagement, dissemination and implementation efforts

**Health Systems interventions work** – disparities in hypertension, cholesterol, and glucose control were eliminated for blacks in Kaiser health plans in the West (Ayanian et al., 2014, NEJM)





National Institute of Neurological Disorders and Stroke



## Know Stroke: Know the Signs. Act in Time.







The National Institute of Neurological Disorders and Stroke

The NINDS sponsors a comprehensive public education campaign about the urgency and importance of knowing the symptoms of stroke and treating stroke as an emergency. The campaign has reached millions of people with this important message through a variety of media and community programs.



www.stroke.nih.gov





National Institute of Neurological Disorders and Stroke



# Mind Your Risks<sup>sn</sup>

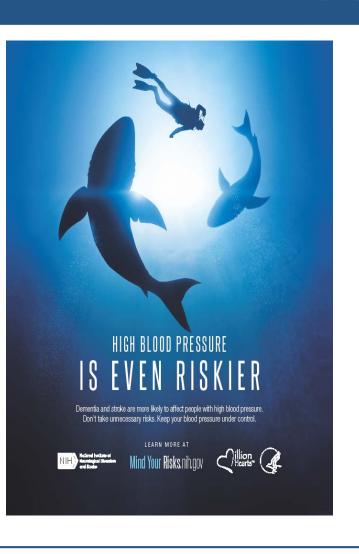
NINDS-led **public education campaign** in partnership with Million Hearts<sup>®</sup>, the National Institute on Aging and NHLBI.

#### Campaign goals:

- Raise awareness that controlling blood pressure in mid-life may decrease risk for dementia
- Provide scientific evidence for doctors to discuss this topic with patients
- Promote existing blood pressure management tools

www.mindyourrisks.nih.gov









# **NIH StrokeNet**





National and Regional Coordinating Centers



- Established in 2013
  - 25 regional centers, 300 satellite stroke hospitals, two coordinating centers
  - Clinical trials and research to advance acute treatment, prevention, and recovery and rehabilitation.
- Increased trial efficiency
- Stable infrastructure and research capacity
- Improved data sharing
- Coordination and publicprivate partnerships with non-profits, industry, and international partners



http://nihstrokenet.org/



# **Key Points and Opportunities**



- Heart disease and stroke burden remains high, disparities persist
- Hypertension is the major modifiable risk factor, drives disparities
- Evidence-based strategies to improve risk factor control and reduce heart disease and stroke at the population level and in diverse settings:
  - Increase general awareness of the risk of hypertension
  - Promote rapid utilization and uptake of new evidence into treatment
  - Integrate health systems-level changes, such as protocol-driven care
  - Improve community and clinical linkages as recommended by the Community Guide (e.g. utilization of community health workers)







# Heart Disease and Stroke Federal Partners/Contributors



- National Institute of Neurological Disorders and Stroke (NINDS)
  - Katie Pahigiannis, PhD
- National Heart, Lung, and Blood Institute (NHLBI)
  - Joylene John-Sowah, MD, MPH
- Centers for Disease Control and Prevention (CDC)
  - Yuling Hong, MD, PhD
  - Fleetwood Loustalot, PhD, FNP
  - Angela Thompson-Paul, PhD
  - Kimberly Hurvitz, MHS
- Office of the Assistant Secretary for Health (OASH)
  - Emmeline Ochiai, JD, MPH





# Activities Supporting Heart Disease and Stroke Objectives

Wayne H. Giles, MD, MS Director of CDC's Division for Heart Disease and Stroke Prevention, National Center for Chronic Disease Prevention and Health Promotion





## Core Functions of the Division for Heart Disease and Stroke Prevention



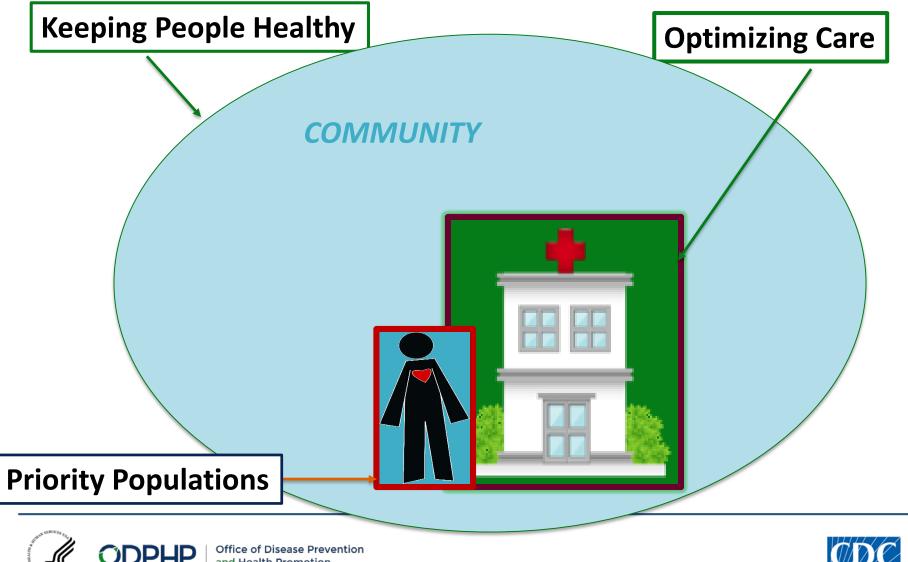
## Applied Research and Evaluation Epidemiology and Surveillance Program Development and Support Policy and Communication





**Healthy People** 

# **Major Areas of Focus**



and Health Promotion



Healthy People 2020

# Million Hearts®



Goal: Prevent 1 million heart attacks and strokes by 2017

- U.S. Department of Health and Human Services initiative, coled by:
  - Centers for Disease Control and Prevention (CDC)
  - Centers for Medicare & Medicaid Services (CMS)
- Partners across federal and state agencies and private organizations







Million Hearts<sup>®</sup> Successes

- About 115,000 cardiovascular events were prevented during the first 2 years of the initiative
- Hypertension control is projected to increase 8.3% between 2009-2010 and 2015-2016.
- Improvements in care of at least 70% have been demonstrated across diverse clinical settings





#### **Keeping People Healthy**

**Reduce Sodium Intake** 

Decrease Tobacco Use

**Increase Physical Activity** 

**Optimizing Care** 

Aspirin When Appropriate

Blood Pressure Control

**Cholesterol Management** 

**Smoking Cessation** 

**Improving Outcomes for Priority Populations** 

**Blacks/African-Americans** 

35-64 year olds

People who have had a heart attack or stroke

People with mental illness or substance use disorder

Others





Healthy Peop

## State and Local Public Health Programs



- Multi-faceted, state-wide initiative
- Funded for 5 Years (2013—2018)
- Funding awarded to all 50 states, 4 large city health departments and the territories
- Reduce health disparities among adults through a combination of community and health system interventions











# WISEWOMAN



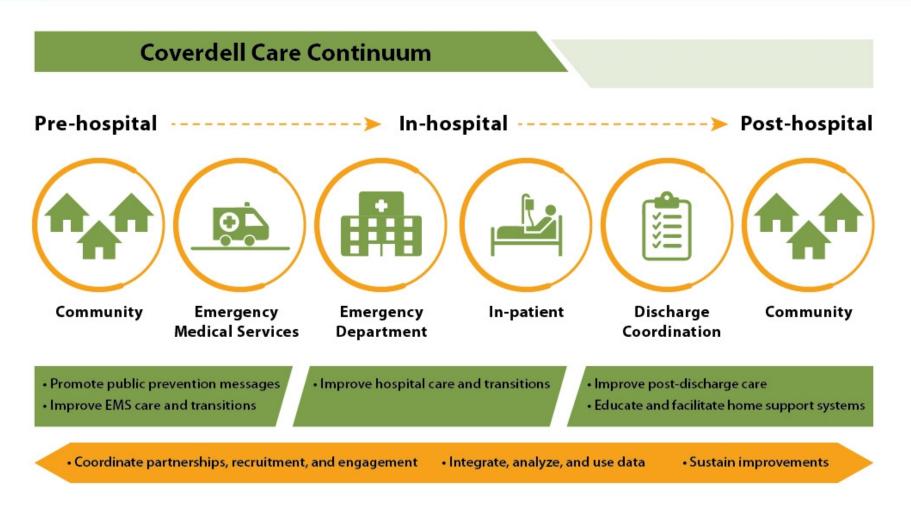
- □ Funds 21 programs
- Provides cardiovascular screening, referral, and lifestyle invention services to women
  - aged 40-64
  - eligible through participation in the CDC National Breast and Cervical Cancer Early Detection Program
  - Provides cardiovascular screening
  - Lifestyle programs
    - the YMCA
    - Weight Watchers
    - Diabetes Primary Prevention Programs
- Between July 2014 and July 2015, participants received over 19,000 screenings and more than 28,000 evidencebased services, according to preliminary numbers.





#### Paul Coverdell National Acute Stroke Program (PCNASP) Program Care Continuum









## Paul Coverdell National Acute Stroke Program (PCNASP) Successes

- Funded 9 States to improve stroke care across the continuum of care
- 2005-mid-2015, more than 620,802 patients benefitted from hospital participation in the PCNASP
- The Coverdell program and Georgia Department of Public Health worked with EMS to improve "door-to-needle" time for receipt of tPA, resulting in a 32% improvement as the average time dropped from 85 to 58 minutes.





Healthy Peop

# **CDC Vital Signs**



#### **2016**

- Blood Pressure Control --- Helping Patients Take Their Medicine
- **2015** 
  - Heart Age Is Your Heart Older Than You?
- **2014** 
  - Reducing Sodium in Children's Diets
- **2013** 
  - Preventable Deaths from Heart Disease & Stroke
- **2012** 
  - Getting Blood Pressure Under Control
  - Where's the Sodium?
- **2011** 
  - High Blood Pressure and Cholesterol





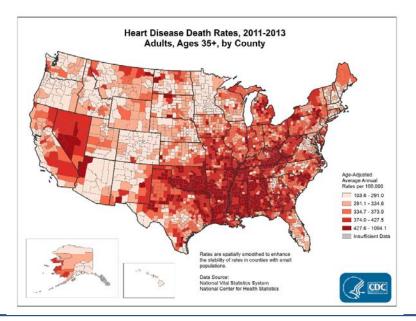


# Making Data Accessible



#### □ Interactive Atlas of Heart Disease and Stroke

 CDC's Interactive Atlas of Heart Disease and Stroke is an online mapping tool that allows users to create county-level maps of heart disease and stroke by race/ethnicity, gender, and age group, along with maps of social and economic factors and health services for the entire United States or for a chosen state or territory.

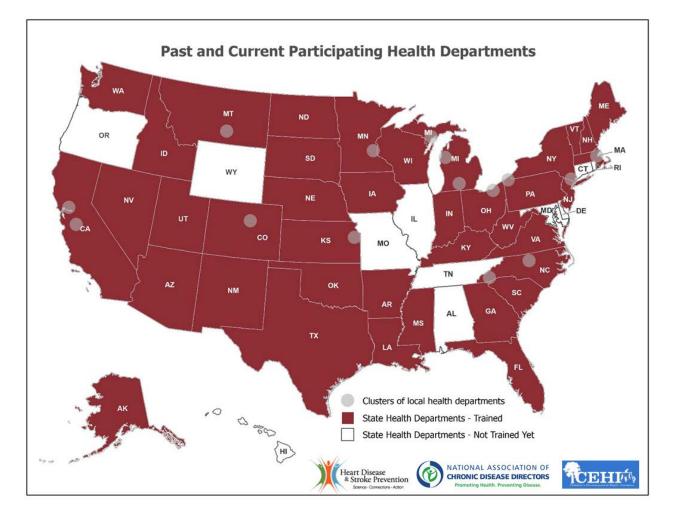






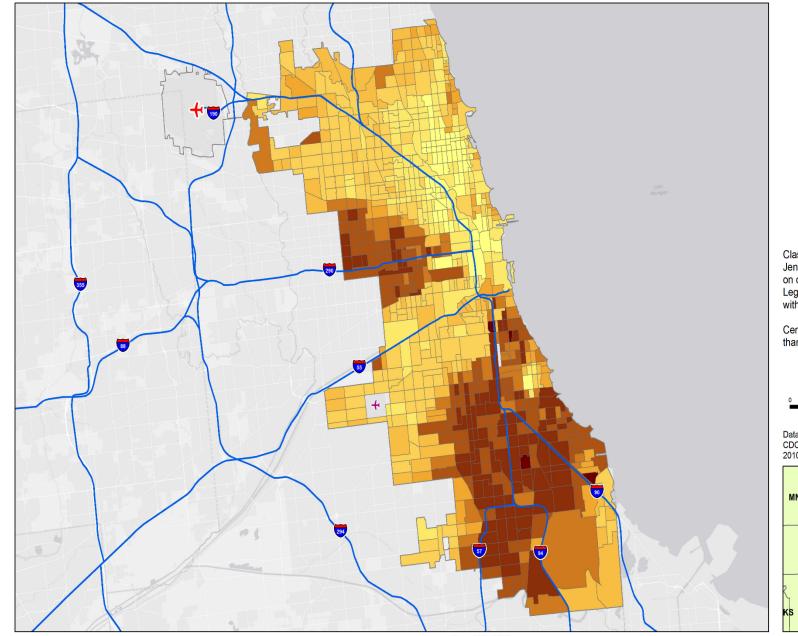
Building GIS Capacity for Chronic Disease Surveillance in State and Local Health Departments

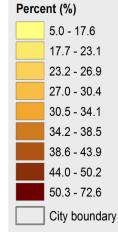






# High blood pressure among adults aged $\geq$ 18 years by census tract, Chicago, IL, 2013

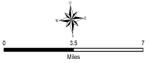




Classification:

Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

Census tracts with population less than 50 were excluded from the map.



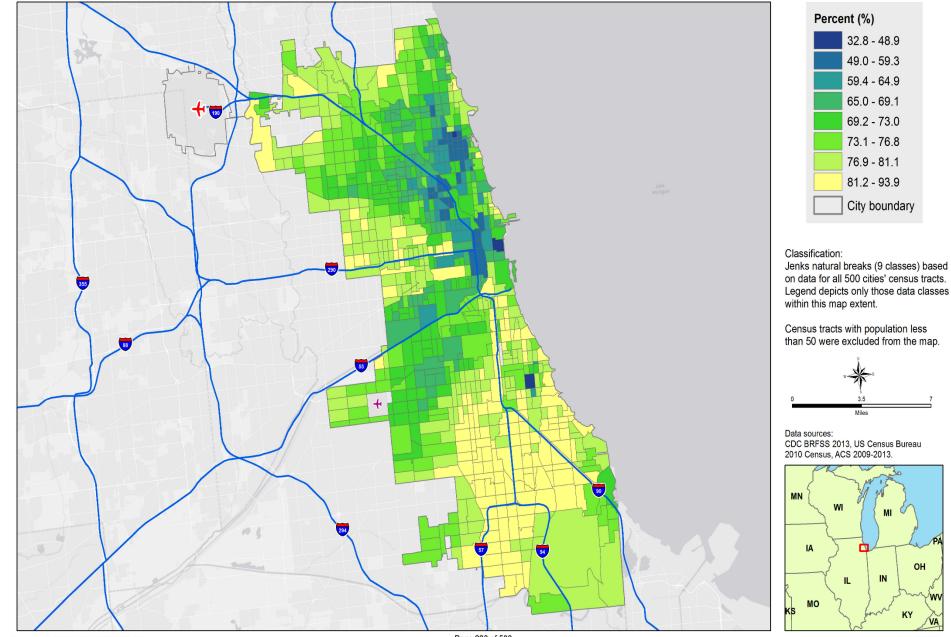
Data sources: CDC BRFSS 2013, US Census Bureau 2010 Census, ACS 2009-2013.



Map created by CDC/NCCDPHP/DPH/ESB-GIS

Date: 4/1/2016

Taking medicine for high blood pressure control among adults aged **>**18 years with high blood pressure by census tract, Chicago, IL, 2013



Map created by CDC/NCCDPHP/DPH/ESB-GIS

Date: 5/3/2016

KY

ОН

WI

МІ

IN

IL

32.8 - 48.9 49.0 - 59.3 59.4 - 64.9 65.0 - 69.1

69.2 - 73.0 73.1 - 76.8 76.9 - 81.1 81.2 - 93.9 City boundary

# **Tools and Resources**



#### DHDSP Programs

https://www.cdc.gov/dhdsp/

#### Million Heart<sup>®</sup> Initiative

http://millionhearts.hhs.gov/

#### Chronic Disease GIS Exchange

- Community forum to help public health personnel use the power of geographic information systems (GIS) to address chronic disease through sharing maps, training materials, and resources
- http://www.cdc.gov/dhdsp/maps/gisx/

#### 500 Cities

http://www.cdc.gov/500cities







# NIH Programs to Improve Outcomes in People with Arthritis, Osteoporosis, and Chronic Back Conditions

#### Joan A. McGowan, PhD Director, Division of Musculoskeletal Diseases NIAMS







National Institute of Arthritis and Musculoskeletal and Skin Diseases NIH Support for Arthritis, Osteoporosis and Chronic Back Conditions in 2015



NIH supports basic, translational and clinical research in Arthritis, Osteoporosis and Chronic Back Conditions

- o Arthritis
  - Osteoarthritis

\$214 million
\$76 million

o Osteoporosis

\$146 Million

#### Chronic Pain Conditions \$391 Million

Source: NIH Estimates of Funding for Various Research, Condition, and Disease Categories (RCDC)







# Arthritis







National Institute of Arthritis and Musculoskeletal and Skin Diseases

# Epidemiology: Basic Science of Public Health



The Keys to Prevention

- Identification of risk factors
- Discovery and testing of novel diagnostic tools
- Generation of hypotheses to drive intervention studies



https://oai.epi-ucsf.org/



MULTICENTER OSTEOARTHRITIS STUDY PUBLIC DATA SHARING

#### http://most.ucsf.edu/



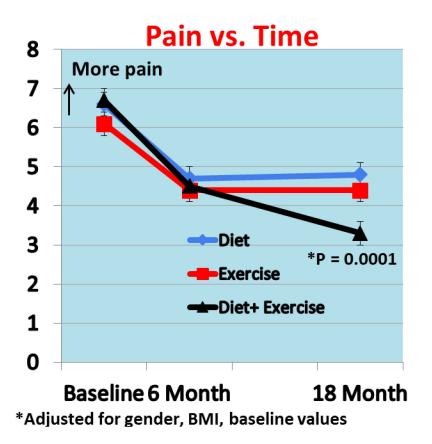


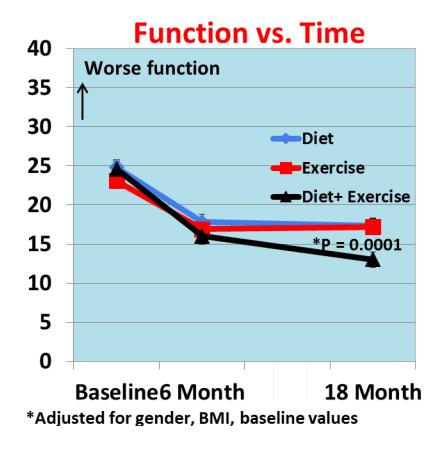
66

# Improving Pain and Function in Knee Osteoarthritis



#### On the road to a public health strategy





#### Messier et al. JAMA 2013





#### WE-CAN – <u>W</u>eight Loss and <u>Exercise</u> for <u>Communities with Arthritis in North Carolina</u>

- In January of 2016 investigators put years of highly-controlled clinical study results to the test in a real-world setting.
- To demonstrate that community-based intervention programs can make a difference in people's lives and health.







Healthy Peop



# Osteoporosis and Fractures





National Institute of Arthritis and Musculoskeletal and Skin Diseases Osteoporosis & Hip Fractures: Epidemiology





Study of Osteoporosis in Women 1986



Rochester Osteoporosis Project 1997





Framingham Osteoporosis Project 1988



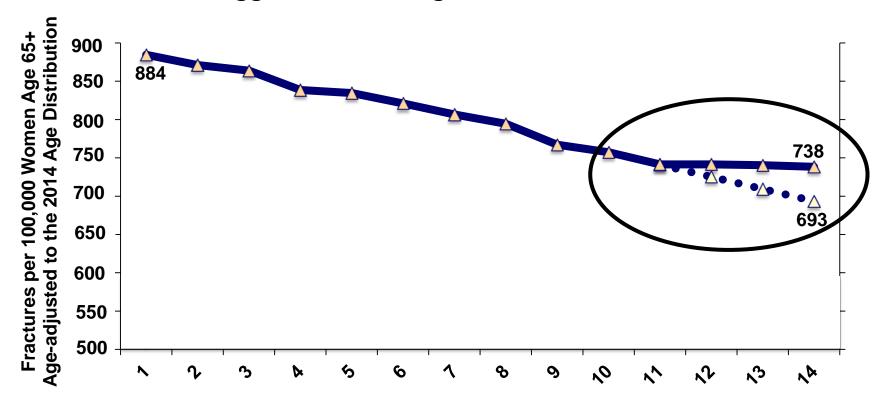
Osteoporotic Fractures in Men 2000



70

### US Hip Fracture Trends 2002-2015 Medicare Data

Despite significant decreases in hip fracture incidence before 2010, recent data suggest a flattening or reversal in the trend



Adapted from Lewiecki EM et al J Bone Miner Res 2016; 31 (Suppl 1) with permission from ASBMR





Healthy People 2020

## "Crisis in Osteoporosis"?





Considerable data and media attention have highlighted a potential "crisis" in the treatment of osteoporosis. Specifically, despite the availability of several effective drugs to prevent fractures, many patients who need pharmacological therapy are either not being prescribed these medications or if prescribed a medication, are simply not taking it. Khosla S J Bone Miner Res. (2017)3074

#### NIAMS/NIA/ODP

 Pathways to Prevention:

 Weighing the evidence. Identifying the research gaps. Determining next steps.







# Chronic Back Conditions





National Institute of Arthritis and Musculoskeletal and Skin Diseases

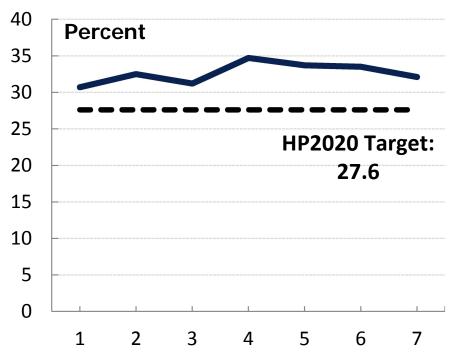
#### **Chronic Back Conditions**



- Low back and neck pain third most costly health condition
- The increase in spending for low back and neck pain between 1996 and 2013 was larger than that for almost all other areas of health care.
- Evidence based prevention strategy – exercise!

US Spending on Personal Health Care and Public Health 1996-2013 JAMA. 2016; 316(24): 2627-2646

## Activity limitations due to chronic back conditions



NOTES: Data are adults aged 18 years and over with limitation in activity due to chronic back or neck problems. Data are age-adjusted to the 2000 standard population.

SOURCE: National Health Interview Survey (NHIS), CDC/NCHS.





#### **Evidence-Based Prevention** Healthy Peop **Communication Efforts Decision Tools** Publications and Outreach Campaigns **Back Pain Treatment Calculator** from Dartmouth and Consumer Reports NIH OSTEOPOROSIS AND RELATED BONE DISEASES NATIONAL RESOURCE CENTER This calculator shows possible patient results for physical function, pain and other symptoms, and overall **(UPON** satisfaction after surgical or non-surgical treatment for A service provided by the National Institutes of Health patients with three different kinds of low back problems. Answer some survey questions and get personalized lones results in just a few minutes! https://bones.nih.gov/ Get Started on tailored for you eneral's Report on **NIH**SeniorHealth Bone Health and Osteoporosis Built with You in Mind Working Groups https://nihseniorhealth.gov/ Go4Lif Federal Working Group on Bone Diseases https://go4life.nia.nih.gov/ National Institutes of Health Bethesda, Maryland National Institute of



Arthritis and Musculoskeletal

and Skin Diseases



# CDC Arthritis Program

#### Kurt J. Greenlund, Ph.D. Director (Acting), Division of Population Health







## **CDC** Arthritis Program Mission

CDC's Arthritis Program

Fund state programs to reach adults with arthritis with evidence-based interventions

> Epidemiology, surveillance, intervention research

Office of Disease Prevention and Health Promotion Fund national programs to reach adults with arthritis with evidence-based interventions

## The Good News...

# Arthritis interventions create a triple win:

- Evidence-based interventions reduce arthritis' impacts.
- Same interventions help multiple chronic conditions.
- Same infrastructure can address multiple conditions.







## Intervention Evidence-Base



## (Meta-analyses of 20-40 studies)

#### Self Management Education

- Persistent small to moderate effects on
  - Self-efficacy
  - Anxiety/depression
  - Fatigue/Energy
  - Exercise

Brady et al, *Preventing Chronic Disease*, 2013



### **Physical Activity**

- Clinically significant changes in
  - Pain
  - Function
  - Psychological well-being

Kelley et al, Arthritis Care & Research, 2011

## **CDC** Arthritis Program



#### Menu of Evidence-Based Interventions

#### Self Management Education

- Arthritis Self Management Program (English & Spanish) (ASMP)
- Chronic Disease Self -Management Program (CDSMP) (English & Spanish)

**Communication Campaign** 

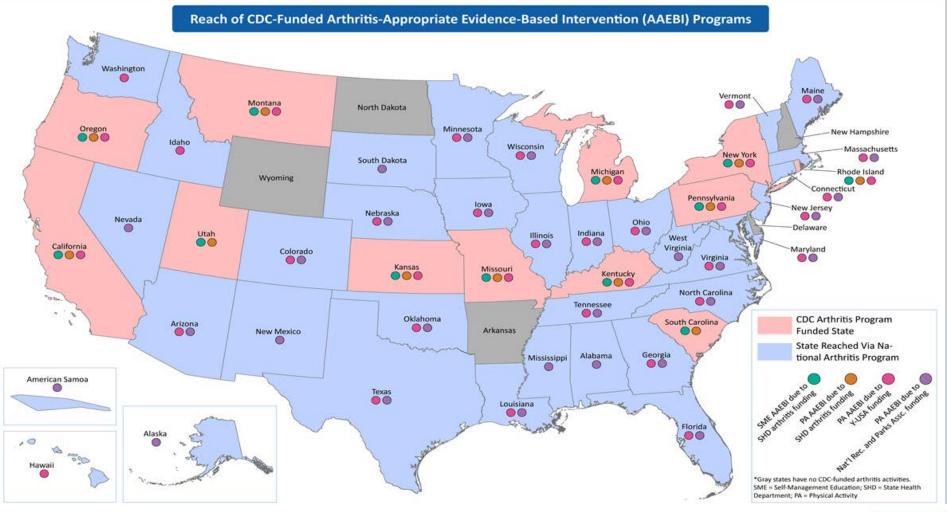
- Physical Activity. The Arthritis Pain Reliever
- Buenos Dias, Arthritis



Physical Activity

- Fit & Strong!
- Active Living Every Day
- EnhanceFitness (EF)
- Walk with Ease (WWE)

## State & National Arthritis Program Impact as of 2016





National Center for Chronic Disease Prevention and Health Promotion Division of Population Health



Healthy People 2020

# CDC State Arthritis Program 2012-2017



- 12 Funded State Arthritis Programs
  - Average Funding ~ \$420k
- **Evolving Strategic Approach** 
  - Focus on dissemination of packaged PA & SME interventions
  - Embed interventions in delivery systems
  - Emphasis on "reach" numbers
  - Expand arthritis-related media coverage
  - Monitor burden; disseminate data

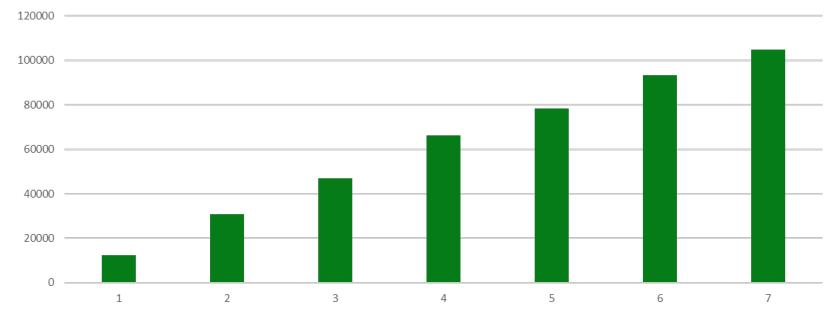


## State Arthritis Program



### Cumulative Reach By 6-Month Reporting Period (RP)

Total Reach 104,723 July 2012--December 2016





# CDC Arthritis Program National Programs 2011-2016



#### Grantee

- Arthritis Foundation (AF)
  - Toll free consumer hotline & resources
  - Walk With Ease dissemination pilot via large & multi-site workplaces
  - Online Arthritis Self-Management Program marketing & dissemination pilot
  - OA Action Alliance initiation



# CDC Arthritis Program National Programs, continued



#### Grantee

- NACDD (National Association of Chronic Disease Directors)
  - Arthritis intervention delivery pilot in local parks via NRPA
  - American Physical Therapy Association pilot to refer patients to interventions
  - Arthritis Council operation to facilitate state support & technical assistance
  - National Conference of State Legislators project: to identify & report insights into working with state legislators to promote & adopt interventions.
  - Medworks project: to explore potential mechanisms & opportunities for financing interventions via employee wellness & insurance benefits.



# CDC Arthritis Program National Programs, continued



#### Grantee

- YMCA of the USA
  - National embedding: EnhanceFitness (EF) becomes a Signature Y program
  - Program expansion: start-up grants issued to increase local EF initiation
  - Health equity: EF training & support in economically disenfranchised areas
  - Clinic to Community: Focus on increasing provider referrals for EF
  - Sustainability: Exploration into sustainable financing options for EF
  - Marketing: EF specific marketing research, updates and expansion



# CDC Arthritis Program National Programs 2016-2021



Advancing Arthritis Public Health Approaches through National Organizations

3 Components		6 Awards   5 Grantees
Syste Evide 1 Envir	Innovative Dissemination & Delivery Systems for Arthritis-appropriate	Association of State & Territorial Chronic Disease Program Directors (NACDD)
	Evidence-based, Interventions (EBIs)	Y-USA
	Environmental Approaches to Create Sustainable Access to Arthritis EBIs	National Recreation & Parks Association (NRPA)
		University of North Carolina
2	Arthritis Toll-Free Consumer Information & Referral Helpline	Arthritis Foundation
3	Osteoarthritis Action Alliance	University of North Carolina



# **CDC** Arthritis Program **Select Partner Activities**



#### National partners continue to grow the reach of evidencebased arthritis interventions:

- Y –USA has adopted EnhanceFitness as a signature program and offers it in more than 320 sites across 37 states.
- NRPA has disseminated WWE, ALED & AFEP via more than 45 local parks and recreation agencies across 32 states.
- AF disseminated WWE via large worksite systems (e.g., Delta Airlines, State Universities, and county and state health departments). More than 28 companies have participated.



#### **ENHANCE®FITNESS**

Moderate-impact classes with high-impact results



Across the country, a growing number of Y associations offer Enhance® group exercise program for older adults that uses simple, easy-to-learn



nd Health Promotion

Walk With Ease ARTHRITIS





## Next Steps

- Continue to work with states and national organizations.
- Work more closely with diabetes, heart disease, and obesity programs. These conditions occur together frequently.
  - HHS initiative to address multiple chronic conditions
- Seek new avenues to expand the availability of these evidencebased, underused interventions.



## Key References

Healthy Peop

- CDC Arthritis Program
  - https://www.cdc.gov/arthritis
- CDC's Arthritis Funded National Programs
  - <u>https://www.cdc.gov/arthritis/partners/funded-national.htm</u>
- CDC's Arthritis Funded State Programs
  - <u>https://www.cdc.gov/arthritis/partners/funded-states.htm</u>
- Arthritis At-a-Glance
  - <u>http://www.cdc.gov/chronicdisease/resources/publications/aag/arthritis.htm</u>





FOR YOUTH DEVELOPMENT® FOR HEALTHY LIVING FOR SOCIAL RESPONSIBILITY

# MEASURABLE PROGRESS UNLIMITED SUPPORT

THE Y'S SUPPORT OF HP2020 GOALS FOR HYPERTENSION AND ARTHRITIS

MATT LONGJOHN, MD MPH VP AND NATIONAL HEALTH OFFICER YMCA OF THE USA

February 28, 2017

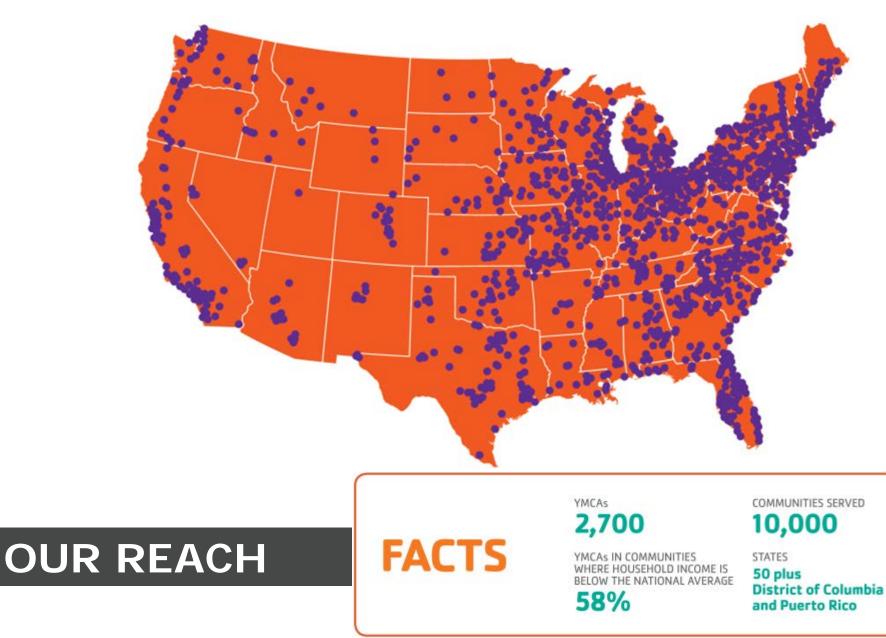
# THE (WH)Y







## **THE Y: ASSOCIATIONS & BRANCHES**



#### 80% OF "HEALTH' HAPPENS OUTSIDE THE CLINIC

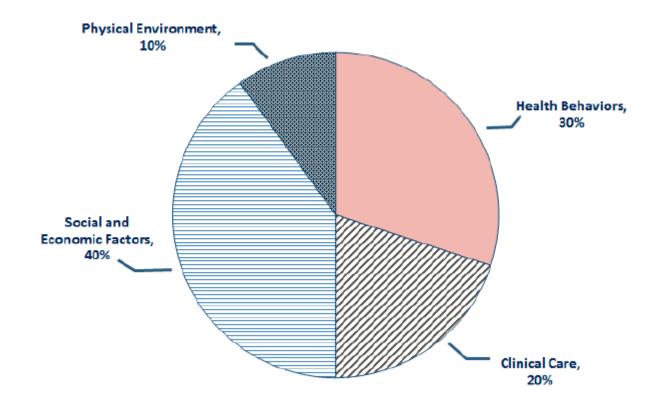


Figure 1. Modifiable Factors That Influence Health

Hanleybrown, F., Kania, J., & Kramer, M. (2012). Channeling Change: Making Collective Impact Work. [Web log post.] *Stanford Social Innovation Review*. Retrieved from <u>http://www.ssireview.org/blog/entry/channeling\_change\_making\_collective\_impact\_work</u>.

### COMMUNITY INTEGRATED HEALTH



health by conducting home visits,

recommended preventive services, and helping connect people to health care exchanges and marketplaces,

spreading awareness of

over the next three years.

#### COLLABORATING FOR HEALTH-PROMOTING POLICY/SYSTEM/ENVIRONMENTAL CHANGES



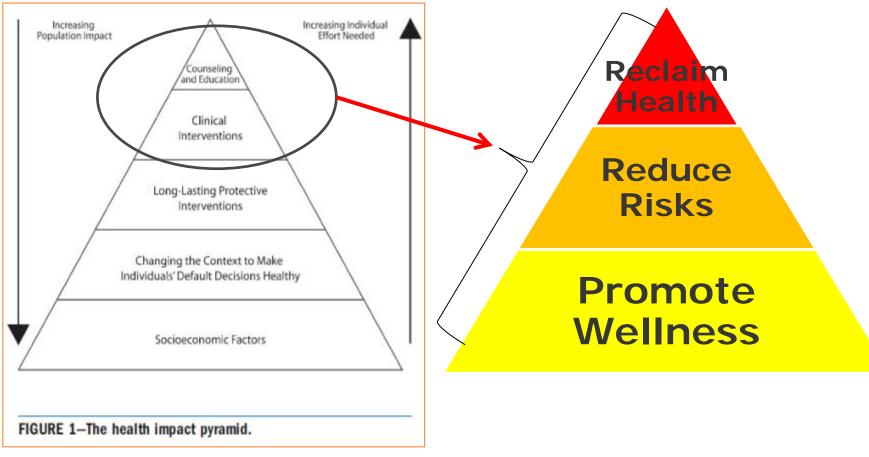


Over the past 10 years, 247 communities have received funding from the Centers for Disease Control and Prevention, Robert Wood Johnson Foundation, and Sam's Club<sup>+</sup> to collaborate with community leaders on efforts to ensure that healthy living is within reach of the people who live in those communities, in a recent sample of 193 of the 247 Y sites, local leaders influenced **39,035** changes to support healthy living within their communities, impacting up to 73 million lives, Below you will find a snapshot of those changes,



To date, the Y with their community partners have advanced more than **39,000 strategies** impacting up to **73 million lives** 

#### WE MEET HEALTH-SEEKERS WHERE THEY ARE...



Frieden, AJPH 2010

## THE Y'S PIPELINE OF EVIDENCE-BASED (RCT PROVEN) PROGRAMS



#### **DELIVERING OUTCOMES AT SCALE:** FALLS PREVENTION/ARTHRITIS SELF-MANAGEMENT



#### **PROVEN RESULTS**

Studies show:

90% participant retention rate

13% improvement in social functioning<sup>1</sup>

35% improvement in physical functioning

53% improvement in depression<sup>1</sup> Fewer hospitalizations and \$945 less in health care costs per year than non-participants<sup>2</sup>

#### THE PROGRAM'S REACH DEC '16

Number of Y associations offering the program	167
Number of states delivering the program	37
Number of EnhanceFitness sites 85% Y Sites   15% non-Y Sites	340
Number of certified instructors	1,573
Number of participants served	17,740

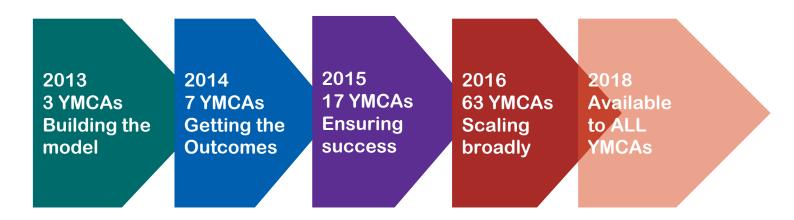
#### PARTICIPANT SATISFACTION

Over 99% of participants say they would recommend Enhance®Fitness to a friend®

### **BLOOD PRESSURE SELF-MONITORING**

DISCOVERY		DEVELOPMENT		DISSEMINATION	
Efficacy	Validation	Translation	Scaling	Dissemination	
The program has evidence it can produce the intended outcomes	The program satisfies dimensions of well-being, brand, license, training, evaluation, data, fundraising & price requirements, and a pilot produces the intended outcomes in a YMCA setting	The program is piloted by YMCAs in <b>various</b> <b>operational</b> <b>settings</b> and produces the intended outcomes	The program is delivered by a sufficient number of YMCA providers to inform <b>a</b> <b>refined operating</b> <b>model</b> that maintains fidelity and intended outcomes, and a national dissemination plan is established	The program is <b>replicated widely</b> and available to any YMCA that has capacity to deliver it	

Programs must pass each stage or risk being phased out



#### **BLOOD PRESSURE SELF-MONITORING PROGRAM: THE BASICS**

Who?	<ul> <li>For adults who have ever been diagnosed with high blood pressure or are currently taking antihypertensive medication</li> <li>Must be interested in a self-monitoring program model</li> <li>Must not have experienced a recent cardiac event, nor have atrial fibrillation or other arrhythmias, nor be at risk for lymphedema</li> </ul>
What?	<ul> <li>4 month program: Regular contact and 10-minute consultations with Healthy Heart Ambassadors</li> <li>Monthly nutrition education seminars</li> <li>Participant "self-monitor", or measure and track their own blood pressure at home</li> </ul>
When? Where?	<ul> <li>Anytime, anywhere where adequate privacy can be ensured (lobby, clinic, multipurpose space)</li> <li>Space for blood pressure measurement stations and nutrition education seminars</li> </ul>
How?	<ul> <li>Training on proper self-monitoring techniques</li> <li>Self-monitoring using a self-identified tracking tool</li> <li>Support, education, and coaching from trained staff called "Healthy Heart Ambassadors"</li> </ul>

### DELIVERING OUTCOMES AT SCALE: BLOOD PRESSURE SELF-MONITORING

#### TAKE ACTION TO IMPROVE HEART HEALTH Blood Pressure Self-Monitoring Program FACT SHEET: OCTOBER 2016



FOR YOUTH DEVELOPMENT® FOR HEALTHY LIVING FOR SOCIAL RESPONSIBILITY

1 out of every 3 American adults has high blood pressure. American Heart Association



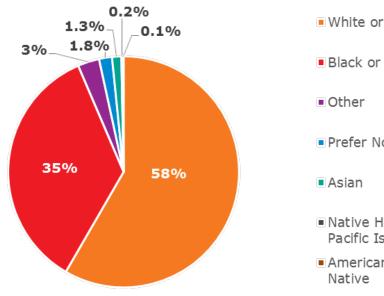
#### **BY THE NUMBERS**

Number of Y associations offering the program	63
Number of states delivering the program	28
Number of BPSM program sites 66% Y Sites   34% non-Y Sites	155
Number of Healthy Heart Ambassadors trained	454
Number of participants enrolled	2,813
Percentage of participants who are African American	31%
Average change (mm/Hg) in systolic blood pressure	-4.6*
Average change (mm/Hg) in diastolic blood pressure	-3.0*

### PAR? Femparis Demographics

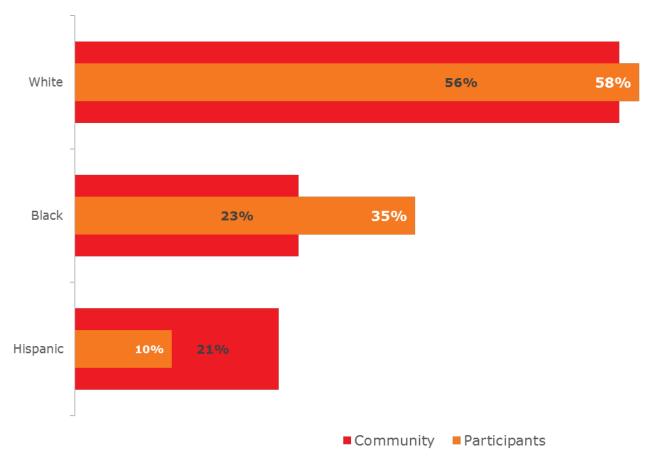
- Average Age of a Participant: 61 (min: 18; max: 98)
- Race/Ethnicity
  - 10% of participants self-identified as Hispanic

#### Blood Pressure Self-Monitoring Program participants' by Race, August 2016



- White or Caucasian
- Black or African American
- Prefer Not to Answer
- Native Hawaiian or Other Pacific Islander
- American Indian or Alaska Native

#### THE PERCENTAGE OF BLACK/AFRICAN AMERICANS SERVED IN THE BLOOD PRESSURE SELF-MONITORING PROGRAM IS GREATER THAN THE COMMUNITY



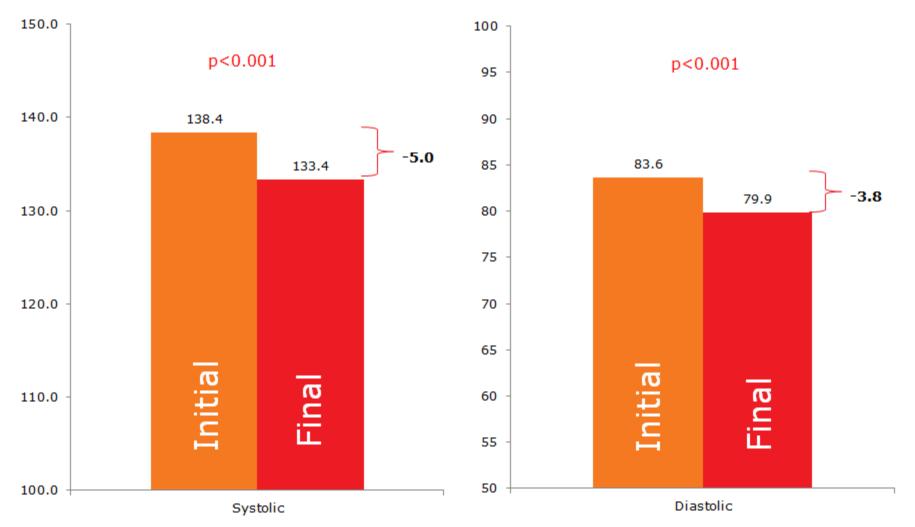
## PARTICIPANT CHARACTERISTICS

- 49% of participants indicated they were diagnosed with high blood pressure within the 12 months prior to enrollment
- 79% of participants were taking prescription medication for high blood pressure at the time of enrollment
- 56% of participants did not have a home blood pressure cuff at the time of enrollment
- 54% of participants are Y members; 28% non-Y members; 18% unknown

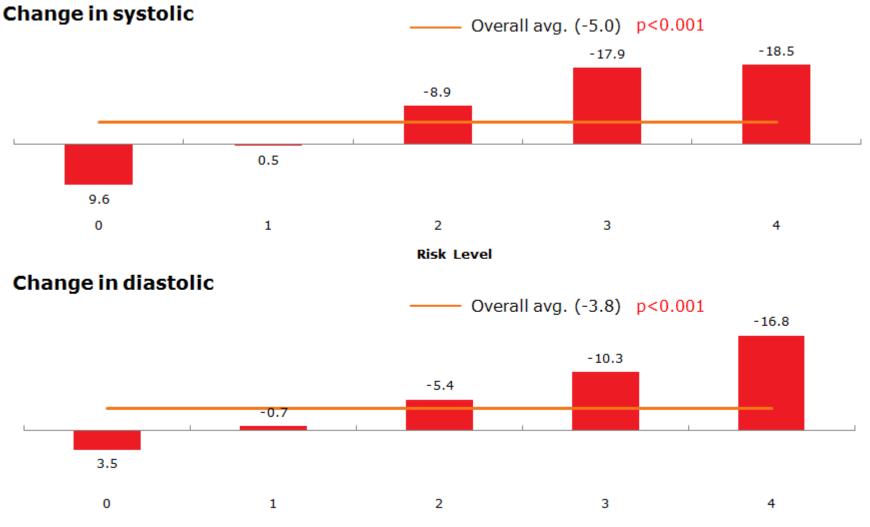
### **REFERRAL SOURCES**

Referral Type	Percentage
Y staff member or volunteer	70%
A friend, family member, or word of mouth	6%
A poster, flyer, Y event	6%
A doctor or health care professional	6%
Other	5%
Media (TV, web, radio, print, etc.)	3%
Direct mailing or email communication	2%
The Y's website	1%

#### THERE IS A STATISTICALLY SIGNIFICANT DIFFERENCE IN SYSTOLIC AND DIASTOLIC BP BETWEEN INITIAL AND FINAL READINGS.



#### PARTICIPANTS WITH THE HIGHEST INITIAL BP READINGS DEMONSTRATE A SIGNIFICANTLY GREATER CHANGE IN SBP AND DBP. \*Based on the AHA risk levels



18 | BPSM | ©2016 YMCA of the USA

**Risk Level** 

## FOCUS AREAS FOR 2016-2018

#### Spread

- Develop a virtual learning solution to train and onboard YMCA staff
- Spread the program to more YMCAs (engage  $\geq$ 65 in 2016)

#### Scale

 Offer the program at a larger number of program delivery sites (YMCA & non-YMCA locations) to more people with high blood pressure across the country

#### Sustainability

 Develop a business model that ensures sustainability of the program model, decreasing reliance on grant funding

#### Equity

• Continue to focus on equity among African American populations

#### **Clinical Integration**

 Collaborate with CDC/ACPM, AHA, AMA, to leverage RWJF / YUSA investments and initiate clinical referrals







# THANK YOU

YMCA OF THE USA 800 872 9622



# **Roundtable Discussion**

Carter Blakey Deputy Director, Office of Disease Prevention and Health Promotion



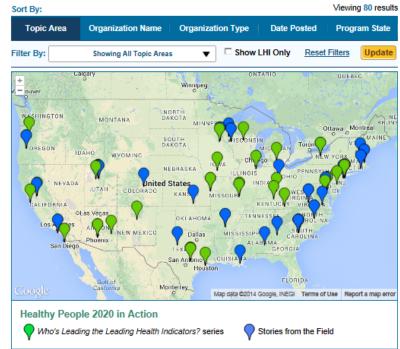
#### Healthy People 2020 Stories from the Field



Stories from the Field

Want to know what others are doing to improve the health of their communities? Explore our *Stories from the* Field to see how communities across the Nation are implementing Healthy People 2020. You can also <u>share</u> your story!

Explore the map below or filter to view stories by the related topic area or Leading Health Indicator.



#### **Healthy People in Action**

http://www.healthypeople.gov/2020/healthy-people-in-action/Stories-from-the-Field

A library of stories highlighting ways organizations across the country are implementing Healthy People 2020

#### Who's Leading the Leading Health Indicators? Webinar



Please join us on **Thursday, March 13<sup>th</sup> from 12:00 to 1:00 pm ET** for a Healthy People 2020 *Who's Leading the Leading Health Indicators?* webinar on Mental Health.



Registration on HealthyPeople.gov available soon Who's Leading the Leading Health Indicators?



#### **Progress Review Planning Group**



- Charles Helmick (CDC/ONDIEH)
- Joan McGowan (NIH/NIAMS)
- Kristy Nicks (NIH/NIAMS)
- Kamil Barbour (CDC/ONDIEH)
- Yuling Hong (CDC/ONDIEH)
- Fleetwood Loustalot (CDC/ONDIEH)
- Angela Thompson-Paul (CDC/ ONDIEH)
- Joylene John-Sowah (NIH/NHLBI)
- Katie Pahigiannis (NIH/NINDS)
- Stan Lehman (CDC/OD)

- Jennifer Villani (NIH/OD)
- Irma Arispe (CDC/NCHS)
- David Huang (CDC/NCHS)
- Leda Gurley (CDC/NCHS)
- Asel Ryskulova (CDC/NCHS)
- Kimberly Hurvitz (CDC/NCHS)
- LaJeana Hawkins (CDC/NCHS)
- Carter Blakey (HHS/ODPHP)
- Emmeline Ochiai (HHS/ODPHP)
- Theresa Devine (HHS/ODPHP)
- Ayanna Johnson (HHS/ODPHP)
- Yen Lin (HHS/ODPHP)







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