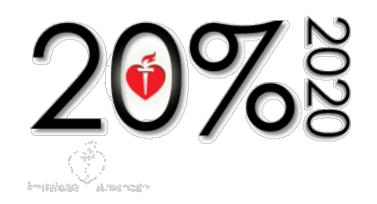
BUILDING A CULTURE OF HEALTH: THE MISSION & TOOLS OF THE AMERICAN HEART ASSOCIATION

- Tim Nikolai
- Sr. Community Impact Director



To be a relentless force for a world of longer, healthier lives.

2020 Strategic Impact Goal



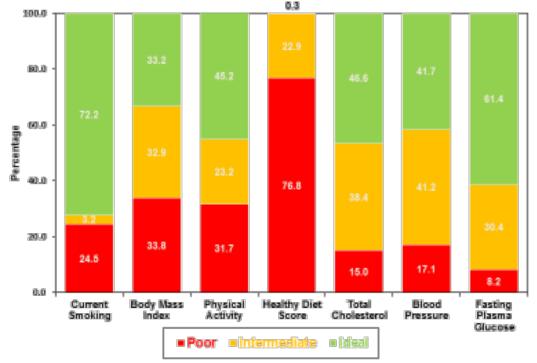
"By 2020, to improve the <u>cardiovascular health</u> of <u>all Americans by 20%</u> while <u>reducing deaths</u> from cardiovascular diseases and stroke by 20%."



CARDIOVASCULAR HEALTH METRICS AND

CATE	GORIES	INTERMEDIATE	IDEAL
Smoking Status Adults >20 y Children 12–19 y	Current Smoker Tried prior 30 days	Former ≤ 12 mos.	Never /quit ≥ 12 mos. Never smoked a cigarette
Physical Activity Adults > 20 y	None	1-149 min/wk mod or 1-74 min/wk vig or 1-149 min/wk mod + vig	150+ min/wk mod or 75+ min/wk vig or 150+ min/wk mod + vig
Children 12-19 y Healthy Diet Adults >20 y Children 5-19 y	None 0-1 components 0-1 components	>0 and <60 min of mod or vig every day 2-3 components 2-3 components	60+ min of mod or vig every day 4-5 components 4-5 components
Healthy Weight Adults > 20 y Children 2-19 y	≥30 kg/m² >95 th percentile	25-29.9 kg/m2 85th-95th percentile	<25 kg/m ² <85 th percentile
Blood Glucose Adults >20 y Children 12-19 y	126 mg/dL or more 126 mg/dL or more	100-125 mg/dL or treated to goal 100-125 mg/dL	Less than 100 mg/dL Less than 100 mg/dL
Cholesterol Adults >20 y Children 6-19 y	≥240 mg/dL ≥200 mg/dL	200-239 mg/dL or treated to goal 170-199 mg/dL	<200 mg/dL <170 mg/dL
Blood Pressure Adults >20 y Children 8-19 y	SBP ≥140 or DBP ≥90 mm Hg >95th percentile	SBP120-139 or DBP 80-89 mm Hg or treated to goal 90th-95th percentile or SBP ≥120 or DBP ≥80	<120/<80 mm Hg <90th percentile
Desired: 🐺	% of people in po	or categorite + ^{mm Hg} % of people	in ideal categories

Challenge: Prevalence for CV Health Factors in U.S. Adults



Top 10 Risk Factors for Health Loss in 2010

Dietary risks
 Smoking
 High blood pressure
 High body mass index
 Physical inactivity
 Physical inactivity
 High blood sugar
 High total cholesterol
 158,431



Estimated change to date in cardiovascular health is 3.95%

All data are now available to estimate current progress towards improving <u>cardiovascular health</u>

NHANES 2013-2014 dietary data were released in late May 2017



Favorable <u>PROPORTIONAL</u> Changes:

- Total Cholesterol Adults (11.5%)
- Blood Pressure Adults (6.8%) and Youth (9.5%)
- Smoking Adults (5.2%) and Youth (7.1%)
- Physical Activity Adults (3.7%)

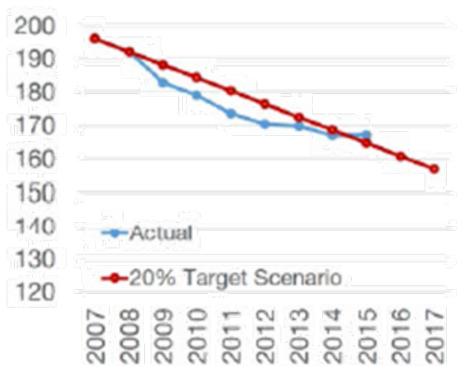
Unfavorable <u>PROPORTIONAL</u> CHANGES:

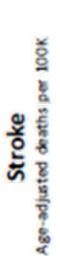
- Healthy Diet Adults (-12.0%)
- BMI (Obesity) Adults (-7.6%) and Youth (-2.2%)
- Physical Activity Youth (-1.4%)
- Total Cholesterol Youth (-1.0%)

Note*: % change is weighted averages of proportional changes in poor and ideal prevalence for each



He art Dise ase Age-adjusted deaths per 100K



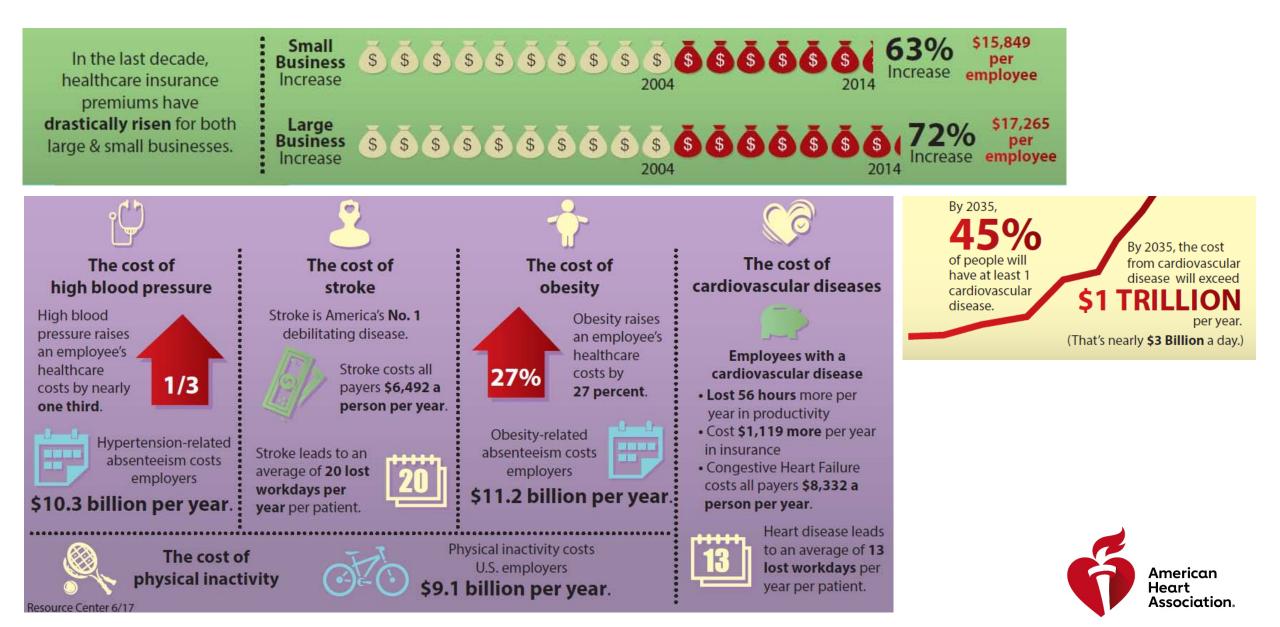










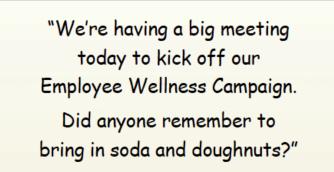


Continuous Quality Improvement for Workplace Health







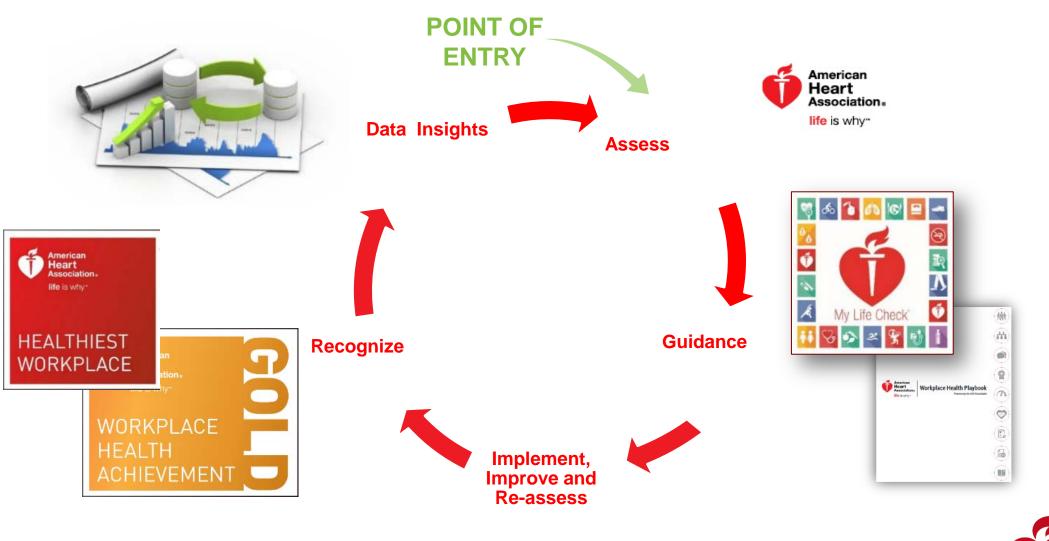






"We have an excellent employee health plan: we built our parking garage 2 miles away from the office!"







- 55 process questions completed online organized around seven best practice categories.
 - 1. Leadership
 - 2. Policies and Environment
 - 3. Communications
 - 4. Programs
 - 5. Engagement
 - 6. Partnerships
 - 7. Reporting Outcomes
 - Performance measures based on aggregate Life's Simple 7 data imported from an employer's existing data or by offering AHA's My Life Check health assessment to employees
 - Receive a report on total score, score for each best practice category and score for each performance measure
 - Admin portal always open. Companies encouraged to reassess and update on a continual basis.
 - Index scores captured on March 31st of each year for determining AHA recognitions in mid-summer
 - > Opportunity for Gold, Silver and Bronze recognitions

Yearly Deadline: March 31st





• Structure & Process

- 1. Leadership
- 2. Organizational Policies & Environment
- 3. Communications
- 4. Programs
- 5. Engagement
- 6. Community Partnerships
- 7. Reporting Outcomes

"Workplace culture of health" Do we have a healthy

workplace?

• Performance

Do we have a healthy

workforce?

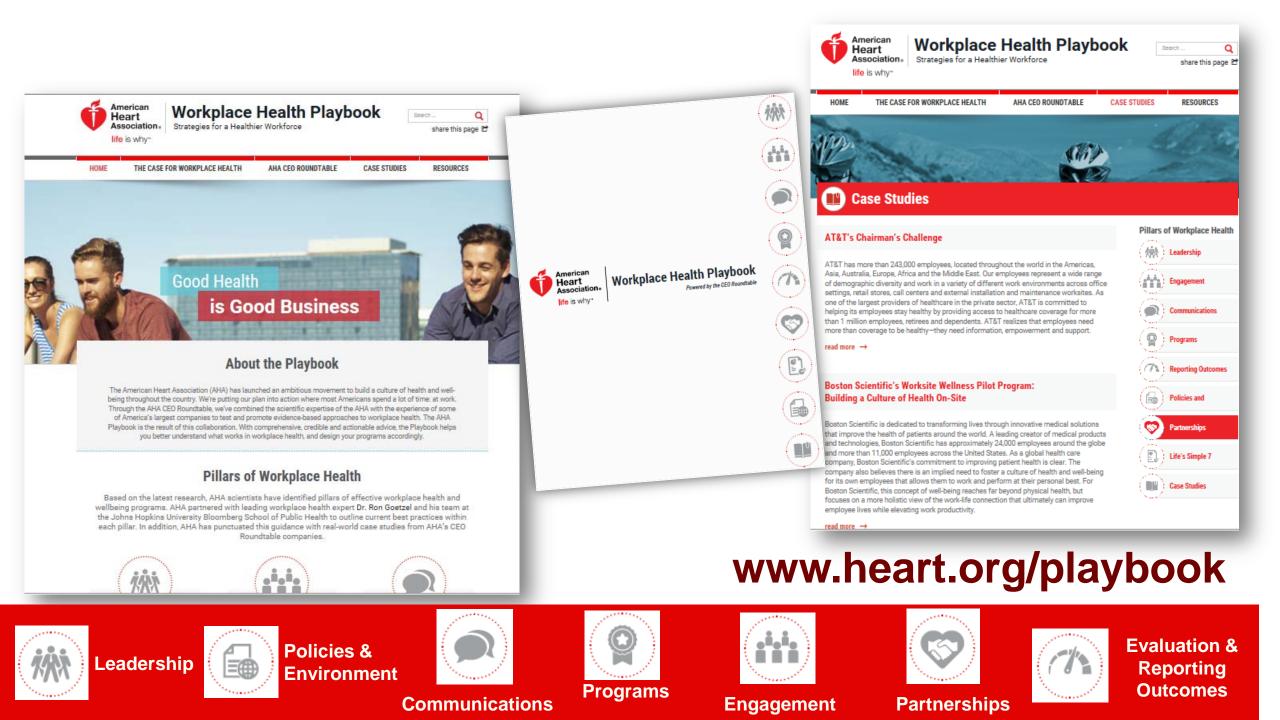


I	Company's	First Cycle
	GOLD	175-217 points
	SILVER	130-174 points
ex Scale	BRONZE	86-129 points
Index	COMPLETION RECOGNITION	<86 points

Subsequent Cycles

	GOLD	200 – 250 points
	SILVER	150 – 199 points
ex Scale	BRONZE	100 – 149 points
Index	COMPLETION RECOGNITION	0 – 99 points







Black River Memorial Hospital
CESA #1
Children's Hospital of Wisconsin
Chr. Hansen, Inc.
Froedtert Health
Group Health Cooperative of Eau Claire
School District of Onalaska
The Starr Group
West Bend Mutual Insurance Company
Wolter Group, LLC



Beaver Dam Community Hospitals Inc. First Business Bank Goodwill Industries of SE Wisconsin, Inc. Grunau Company, Inc. Milwaukee Public Schools MPC, Inc. Omni Glass & Paint SMT



Alliant Energy Associated Banc-Corp Core Creative County of Milwaukee Halvor Lines Independent Care Health Plan MillerCoors, A Molson Coors company Quest CE School District of Cudahy West Allis West Milwaukee School District



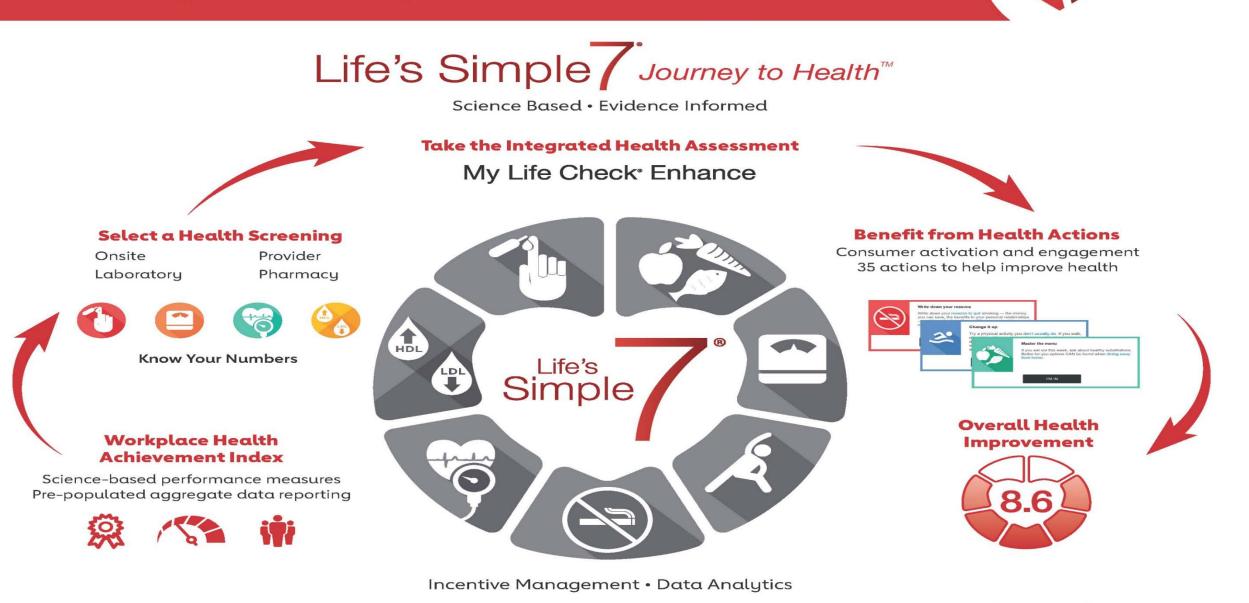
A.C.E. Building Service Cardinal Components Hays Companies Northwire, Inc. Richland Hospital, Inc. VJS Construction Services, Inc.



Nationwide, 1036 employers completed the process; 75% earned medal recognition.

HEALTH SCREENING SERVICES™

Administered by a Licensed Laboratory Services Provider



American Heart

Association .

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HEALTH SCREENING SERVICES™

Administered by a Licensed Laboratory Services Provider



It's never too late to make better health choices. We know that even simple, small changes can make a big difference in living healthier.



Scheduling Tool

Pricing model: no site minimums and fully bundled pricing

Retail pharmacy voucher program and LabCorp voucher program

Staffing model: always send extra staff (3:1 ratio) and no agencies

Flexible implementation

Transmit results to multiple parties Types: onsite, PCP, lab, retail Rx, home test kit

My Life Check Enhance Health Assessment

Science-based Life's Simple 7 health assessment tool

Pre-populated lab values from screenings

Health actions provided to Focus and Improve health in needed areas as identified by the assessment



🌒 Bio

Biometric Screenings

Highly customizable online registration experience Online HIPAA authorization Communication engine to drive participation ADA compliant

Interactive Online Reporting

Point & click functionality with interactive map

Cohort analysis (year over year analysis of population health change)

> Evaluation of specific wellness programs

Age, gender, and employee classification-specific views

Import historical biometrics, program participation and claims data

Incentive Management

Incentive tracking: participation-based, percent improvement, progress-based,

Appeals handling

System flexibility: threshholds, test menu, activity based

Intuitive work flow & incentive scorecard



Check. Change. Control.® Self-Monitoring Blood Pressure Control



The American Heart Association & American College of Cardiology

have undated the guidelines for hypertension control disease and stroke risk is doubled at

Notably, the guidelines eliminate the diagnosis of pre-hypertension and identifies anything greater than 130 or 80 as Stage 1/Elevated hypertension.

Blood Pressure Categories

BLOOD PRESSURE CATEGORY	SYSTOLIC mm Hg (upper number)		DIASTOLIC mm Hg (lower number)
NORMAL	LESS THAN 120	and	LESS THAN 80
ELEVATED	120 - 129	and	LESS THAN 80
HIGH BLOOD PRESSURE (HYPERTENSION) STAGE 1	130 - 139	or	80 – 89
HIGH BLOOD PRESSURE (HYPERTENSION) STAGE 2	140 OR HIGHER	or	90 OR HIGHER
HYPERTENSIVE CRISIS (consult your doctor immediately)	HIGHER THAN 180	and/or	HIGHER THAN 120

130/80 compared to BP below 120/80.

100+ million American adults have HBP and approximately 46% are uncontrolled.

Strong correlation between HBP and Type 2 **Diabetes.** These comorbidities impact health outcomes. HBP increases insulin resistance.

By 2035, HBP will cost employers \$154 billion in direct costs and \$67 billion in indirect costs.

Hypertension is both a measure of and a catalyst for cardiovascular health.



Top 5 Takeaways from new HBP Guidelines

- 1. Classification of Blood Pressure: Four new BP categories based on the average of two or more in-office blood pressure readings.
- 2. Prevalence of High Blood Pressure: Substantially higher prevalence of HTN under the new guideline, 46% of U.S. adults vs 32%, based on JNC 7.
- 3. Treatment of High Blood Pressure: All patients with blood pressures > normal should utilize <u>nonpharmacological interventions</u>. Use of BP-lowering medications is recommended based on stage of HTN, individual medical history or est. CVD risk ≥ 10% using the ACC/AHA Risk Estimator.
- **4. Blood Pressure Goal for people with High Blood Pressure:** For adults with confirmed hypertension and known CVD, or 10-year ASCVD event risk of 10% or higher, a BP goal of

iess than 130/80 mm Hg is recommended.

5. Use Self-measured Blood Pressure Monitoring (SMBP) to Diagnose, Reassess, and Activate Patients with High Blood Pressure. *Especially when combined with educational tools/resources.*



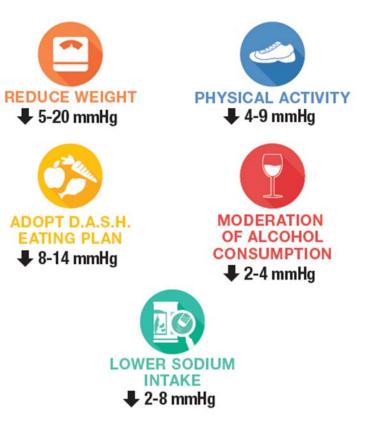


WHAT DO THESE RESULTS MEAN?

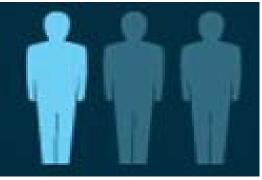


Also, a 5mmHg reduction in systolic blood pressure would increase the prevalence of ideal blood pressure from 44.26% to 65.31%

CALLESING OF BLOOD PRESSURE:



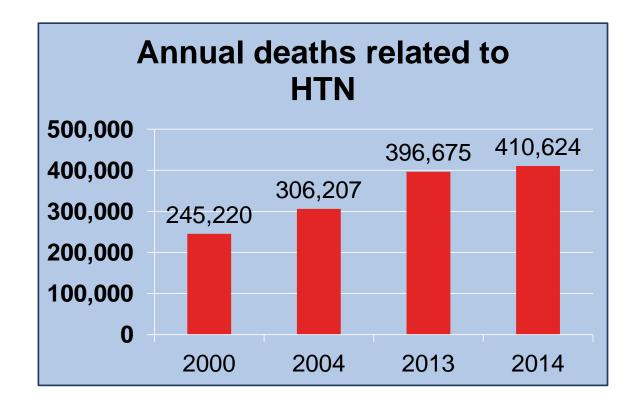




46% are uncontrolled

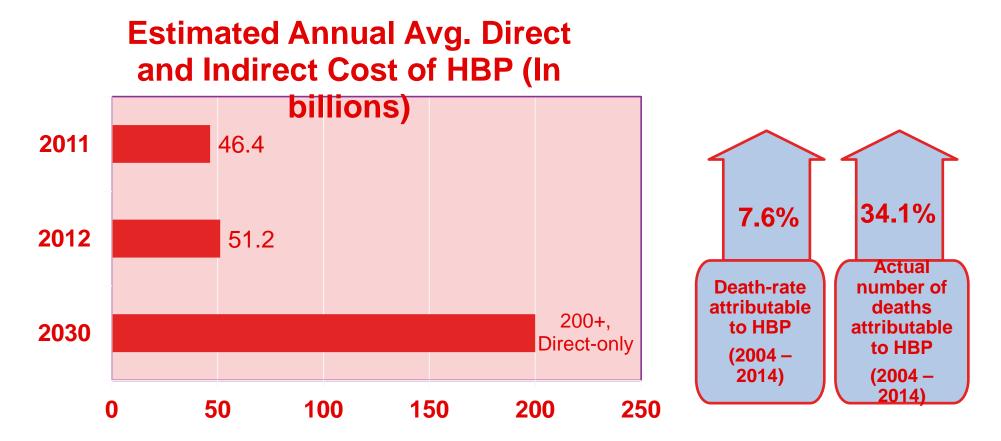
Most adults with uncontrolled HTN have health insurance and a usual source of care.

2015 – Prevalence rate 33% 2030 – Prevalence rate 41% (projected)



Source: CDC, AHA





AHA 2017 Statistical Update



- Evidence based BP management program
- Tracker to empower patients SMBP; encouraging weekly/biweekly readings.
- 4 month education tools around BP control, physical activity, nutrition, stress, etc.
- Focus groups: Corporate and School-site Employees, patients in clinics focusing on HBP control, community sites with opportunity to reach individuals on a continuous basis





- Reduces variability and provides more reliable BP measurement – preventing both "white coat syndrome" and "masked hypertension"
- Provides better assessment of hypertension control
- May improve medication adherence
- Empowers patients to self manage their HTN





...improves BP control

- Enrollment: 50,364 individuals
- Blood Pressure Readings: 163,522

AVERAGE DROP IN SYSTOLIC & DIASTOLIC BLOOD PRESSURE

Fiscal Year	Average Drop in Systolic BP	Average Drop in Diastolic BP
Aug. '12-June '13 (Heart360 Campaigns)	11.20 mm HG	4.31 mm HG
July'13-June '14 (Heart360 Campaigns)	12.69 mm HG	8.12 mm HG
July '14-June '15 (Heart360 Campaigns)	11.96 mm HG	9.10 mm HG
July '14-June '15 (iHealth sites)	12.82 mm HG	9.47 mm HG
July '15-June '16 (Heart360 Campaigns)	11.99 mm HG	8.67 mm HG



Key Evidence-Based Scientific Principles

Self Monitoring Makes a Difference

- Proven track record for taking blood pressure readings at home or outside of the healthcare provider office setting.
- Use of digital self-monitoring and communication tool
- Charting & tracking improves self-management skills related to blood pressure management.

Personal Interaction Makes a Difference

• Coaches can motivate and encourage participants.

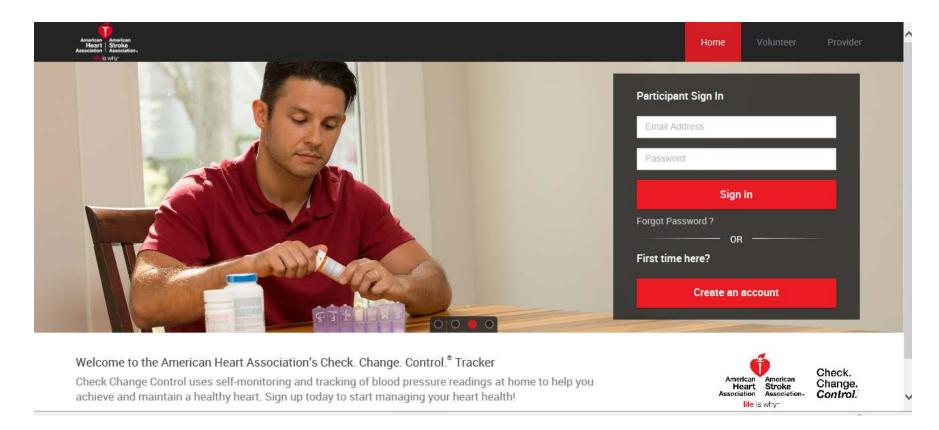
Multicultural Program Investments Make a Difference

• Hypertension creates a health disparity for African-Americans.



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To begin taking positive steps towards blood pressure control, sign up for the Check. Change. *Control.*® Tracker at <u>www.heart.org/ccc</u>

Register using Campaign Code: XXXXX



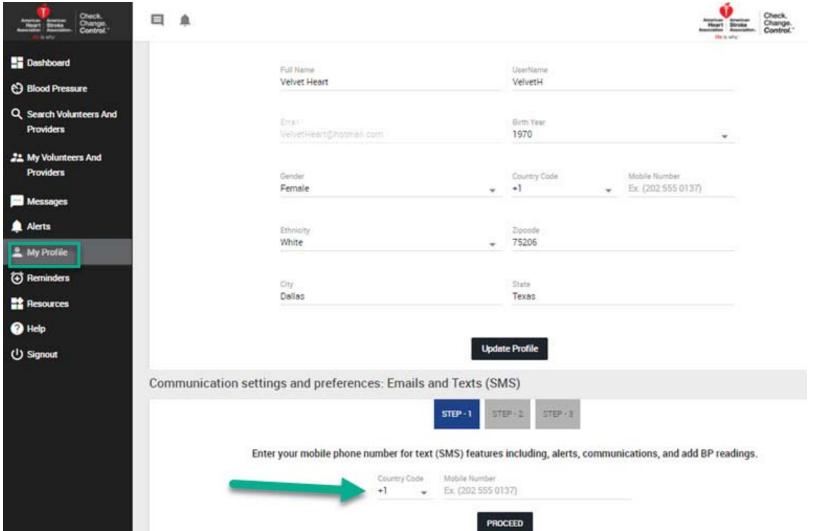




ACCOUNT UserName JaymeAnn	Email jayme.keithley@heart.org
Numbers and letters are allowed.	Jayme.kerniey@neure.org
Password	Confirm Password
6 character minimum.	6 character minimum.
Full Name Jayme Keithley	Birth Year 1970 👻
Gender Female	Country C Mobile Number +1 ▼ 7703801718
Ethnicity White	Enter Zip Code 75225
State Texas	City Dallas
Enter Campaign Code AHA88	
By checking this box I acknowle the terms and conditions outlined in of service, and privacy policy.	lge that I have reviewed and I agree to the <u>subscription agreement, terms</u>
	Register

Signing up as a participant is simple: enter a UserName, email address, password, mobile number and campaign code. Check the box to agree to terms and conditions, click Register and account is created.









Dashboard					SET UP REMI	NDERS			
Blood Pressure			the second second				al de la companya de		
Search Volunteers And Providers						is, and texts (SMS) on t (sms) with the follow			
My Volunteers And Providers	FUNCTIONALITY	ENABLED	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Messages	In-Platform Alerts	Yes 🖕							
Alerts									
My Profile	Emails	Yes 🐙							
Reminders			(19) and	201-157		N 1000	SPES:	224	1472
	Text (SMS)	Yes							~

Participants can set up Text (SMS), email or inplatform reminders here from the Reminders

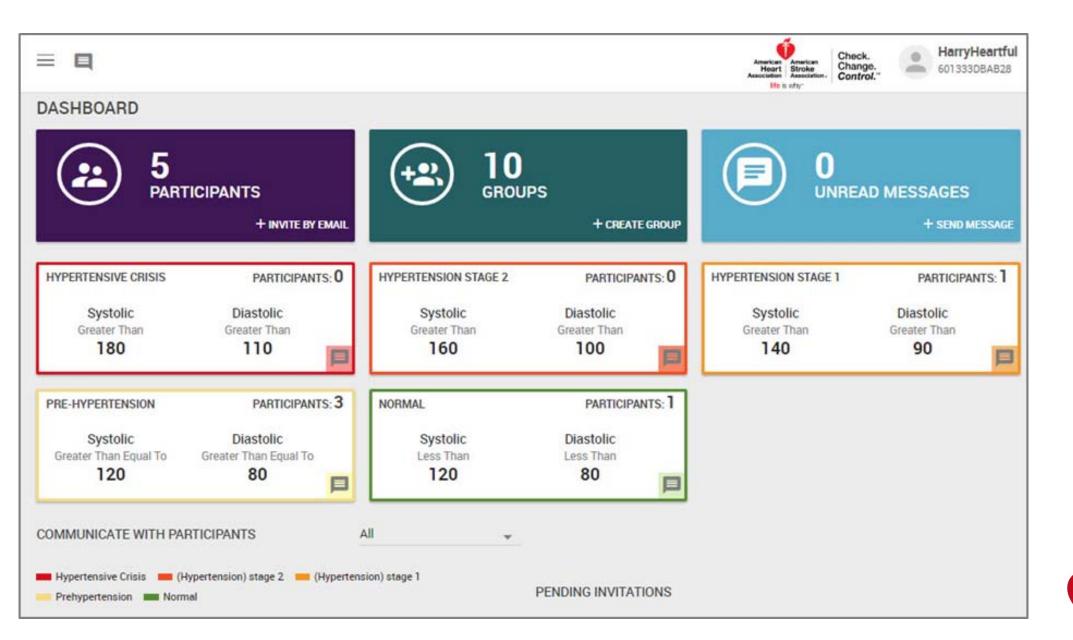


							SYSTOLIC		0	DIASTOLIC	
Blood Pressure			66.7%	HYPER TENSION 20	Participants with a first BP reading that have a systolic reading >= 130.0 mmHg AND/OR a diastolic reading >= 80.0 mmHg	12 # of Participants with at	-14.2 mmHg Average	-10.5 mmHg	18 # of Participants with at	-8.9 mmHg Average	Hg-7.4rageAveragease inAveragecolicchange inoddiastolicbloodbloodpressure forusersase inwith atlic bpleastat2 readingsst7dings7
	÷	COTAL NUMBER OF PARTICIPANTS 30	PARTICIPANTS		ELEVATED 2	Participants with a first BP reading that have a systolic reading between 120.0 – 129.0 mmHG AND a diastolic reading of less than 80.0 mmHg	least 2 readings 7 days apart who had systolic	least decrease in Average 2 readings blood blood systolic fays apart users who had users who had users who users who users who users who had users blood users blo	Average change in systolic	least decrease in 2 readings 7 blood 7 pressure for who had diastolic 1 Diastolic blood 1 pressure for users who 1 had	
			26.7%	NORMAL 8	Participants with a first reading that have a systolic reading < 120.0 mmHg AND a diastolic reading < 80.0 mmHg	improvement (decrease in systolic bp) > than or = to 10 mmHg	decrease in with at systolic bp least with at least least 2 readings 7	least 2 readings 7	(decrease with at in least diastolic 2 reading bp) 2 reading > than or = 7	diastolic bp with at	













Check, Change, Control for an Employer/Organization

The American Heart Association provides at no cost:

- Online Blood Pressure tracker for individuals
 - Ability to track offline as well
- Strategic support to ensure maximum effectiveness
- A structured communication/educational timeline for participants
- Aggregate summary of host data

Host companies/sites provide:

- An onsite champion for coordination
- The physical environment and blood pressure monitors for use
- (Optionally) Incentives for participating



CCC can be part of a comprehensive wellness program

More than just a 'program,' CCC has the ability to impact change across the pillars of workplace health.

- 1. Leadership Easy for leaders to model participation. Template communications provided for messaging from leadership.
- Policies and Environment Positioning monitors at work eliminates barriers/creates a healthy environment. It can also be supported by healthy food policies.
- **3. Communications** Supports communication through a variety of channels, platforms, and methods, including, optionally, by health coaches. Also includes some tools for demographic specific messaging.
- **4. Partnerships** Opportunities to partner with local university nursing programs, health care providers, fitness facilities, chefs, etc.
- 5. Reporting Outcomes Provides data for both individuals and organizations on blood pressure results.



- Complete set of tools to transform vending, meeting, and "general office" food culture. Includes:



- Nutritional standards for the different areas
- Checklists for evaluating current status
- Communication samples to employees and vendors







Recipe Hub. Access 1000s of heart-healthy recipes at <u>http://recipes.heart.org</u>. Filters by diets, budget-friendly, type of food, etc.

Toolkits of resources/communication around:

- Eat Smart Month (November)
- American Heart Month (February)
- Move More Month (April)
- American Stroke Month (May)
- National CPR/AED Week (June)
- NEW! Resiliency in the workplace

EmpoweredToServe. A variety of health messages for diverse audiences including downloadable Lunch & Learns.

Answers By Heart/Infographics. Simple explanations of complex CVD risk factors, warning signs, and more.





Stopping the Pain Without Pills: Reducing Opioid Prescriptions for Your Workforce

Wednesday, October 3rd

7:30 am Networking/Breakfast 8:00 - 9:00am Presentation/Discussion

> Brookfield Sheraton 375 S. Moorland Rd or connect via Phone/Skype

2019 Wisconsin Workplace Health Symposium

February 19, 2019 7:25 to 12:00 pm

"Building Employee Engagement with a Culture of Health."

Brookfield Sheraton

Cost prior top12/1/1393y \$35/person





QUESTIONS?

Tim Nikolai, Sr. Community Impact Director

Tim.Nikolai@heart.org / 414.502.8780



THANK YOU

life is why





we are building a culture of health.

