

Evidence-Based Opportunities to Improve Hypertension Control and Prevention







None of the planners/speakers have no relevant financial relationships with ineligible companies to disclose

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Learning Objectives

- 1. Understand the social and demographic factors contributing to hypertension challenges in the U.S. and Delaware.
- 2. Describe evidence-based interventions to improve hypertension control.
- 3. Describe hypertension guidelines and how to utilize them in your practice.



Meet the Presenters



Joseph J. Pinto, Jr.
Practice Transformation Specialist



Brittany McCauley, RD, LDN
Practice Transformation Specialist



Objective 1:

Understand the social and demographic factors contributing to hypertension challenges in the U.S. and Delaware.

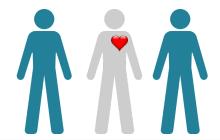






Delaware Quality Improvement Initiatives to Reduce Cardiovascular Risk
CDC 2304 -The National Cardiovascular Health Program
Healthy Heart Ambassador Blood Pressure Self-Monitoring Program

In 2021, approximately 288,000 adults in Delaware reported having hypertension.





Source: Delaware Division of Public Health, 2022.



Cardiovascular Disease

Heart Disease

- Leading cause of death in the U.S.¹
- Leading cause of death in Delaware ²



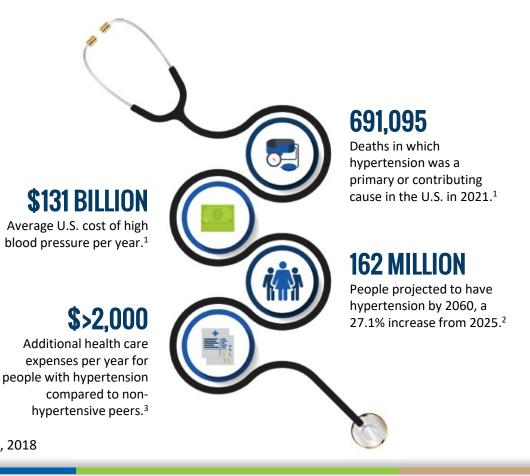
Stroke

- Fifth leading cause of death in the U.S.¹
- Fifth leading cause of death in Delaware ²

Sources: ¹Xu et al., 2022; ²CDC, 2023.



Hypertension by the Numbers



Sources: ¹CDC, 2023; ²Mohebi et al., 2022; ³Kirkland et al., 2018



Prevalence of Hypertension

Delaware: 36.2%

% of all DE adults who reported being told they had high blood pressure

Unites States: 32.4%

% of all U.S. adults who reported being told they had high blood pressure



Adapted from <u>High Blood Pressure in Delaware</u>, by America's Health Rankings, 2022



Delaware Hypertension

Percentages of Adults with Hypertension in Delaware, 2019

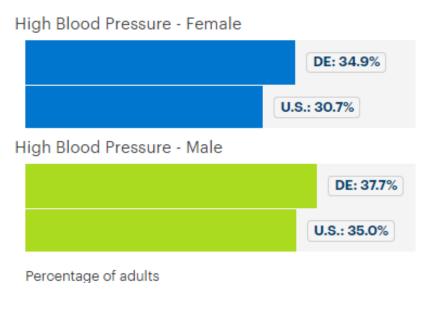
		Prev.	Progress from
County	Value (%)	Range	2015-2019
New Castle	33.90%		↑ 5%
Kent	37.40%		↑ 9%
Sussex	41.40%		↑ 3%

Photo adapted from <u>Interactive Atlas of</u> <u>Heart Disease and Stroke</u>, by CDC, 2019.

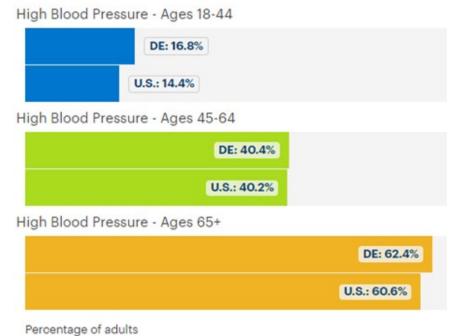
Source: DHHS, 2023



Hypertension Demographics: Age & Gender



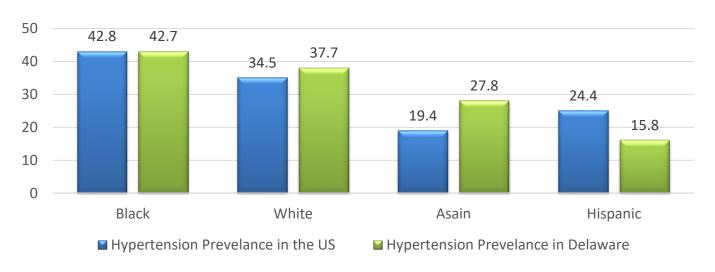
Source: America's Health Rankings, 2022.





Racial Disparities

Hypertension Prevalence by Race in the U.S. and Delaware, 2021

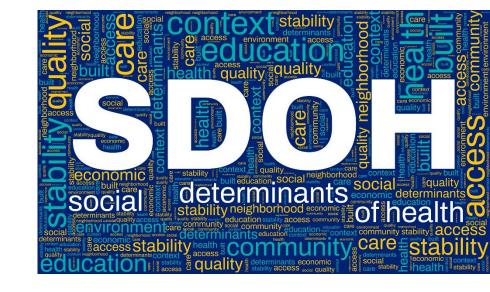


Source: America's Health Rankings, 2022.



Social Determinants of Health

- Physical environment, neighborhoods
- Access to quality health care
- Access to healthy foods





CENTRAL ILLUSTRATION: Multilevel Factors Contributing to Hypertension Disparities and Clinical Considerations

Multilevel Factors Contributing to Hypertension Disparities and Clinical Approaches

Racial/Ethnic Disparities

- Hypertension rates in Black adults among the highest globally
- High prevalence of hypertension in American Indian/Alaskan Native adults
- Worse hypertension control rates in Black, Hispanic, and Asian males

Social Determinants of Health

- · Socioeconomic status
- · Physical environment
- Social support
- Education
- · Racism and discrimination
- Access to quality health care

Clinical Approaches

- Assessing social determinants
- Implementing team-based care
- Self-measured blood pressure
- Strengthening communityclinical linkages
- Utilizing evidence-based guidelines





Hypertension-Related Complications

Coronary artery disease, heart failure, stroke, peripheral arterial disease, abdominal aortic aneurysm, chronic/end-stage renal disease, dementia

Ogunniyi, M.O. et al. J Am Coll Cardiol. 2021;78(24):2460-2470.

Source: Ogunniyi, M.O. et al, 2021.



Interventions



- Care team management
 - Nurse led
 - Pharmacist led
- Self-management
- Medication adherence programs
- Capturing SDOH
- Multi-pronged approach
- Community initiatives



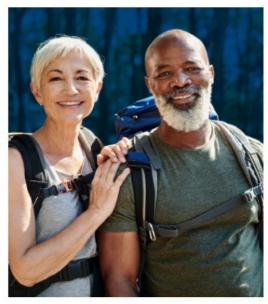
Objective 2:

Describe evidence-based interventions to improve hypertension control.





The Surgeon General's Call to Action to Control Hypertension







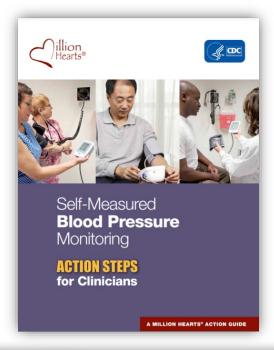
We've D Got This!



Source: <u>CDC</u>, 2020.



















Why take blood pressure at home?





United States Preventive Services Task Force Recommendations

2015 USPSTF

- First addendum to original recommendations on screening for hypertension in adults
- Blood pressure measurements should be obtained outside the clinical setting
- Rationale to confirm the diagnosis before starting treatment



HHA-BPSM Program

- No cost
- Evidence-based
- Empowers adults with hypertension to take control of their blood pressure



 Focuses on the management of hypertension through regular self-monitoring and heart healthy lifestyles



Program Eligibility

- 18 years or older
- Diagnosis of hypertension or prescribed medication for high BP
- No cardiac event in the previous one year
- Not have atrial fibrillation or other arrhythmias
- Not diagnosed or at-risk for lymphedema



Participant Benefits



- Four months of personalized support
- Blood pressure monitor (if needed)
- Bi-weekly virtual coaching sessions
- Monthly virtual nutrition sessions
- Monthly virtual cooking classes



Home Blood Pressure Monitor

- Validated Bluetooth blood pressure cuff
- No cost
- Training on how to measure and track BP at home





Session Information

- Virtual via ZOOM
- Personalized consultations with program facilitators
- Weekly check-ins by phone, email, or text
- Goal setting, action planning, and BP tracking



Key Takeaways from the HHA-BPSM Program







Simple and proven ways to:

- Manage and understand blood pressure
- Measure and track blood pressure
- Set and achieve health goals
- Identify and control triggers that can raise blood pressure
- Adopt healthier eating & lifestyle habits
- Increase physical activity



Program Effectiveness

- Self-monitoring blood pressure has been proven to successfully decrease systolic and diastolic numbers
- Educational interventions cause a significant decrease in blood pressure numbers





Nutrition Educational Sessions

- 1. Dietary Approaches to Stop Hypertension (DASH) Meal Plan
 - Add-on: Introduction and Overview of Walk with Ease Program (Walk with Ease book provided).
- 2. Reducing Sodium Intake
 - Add-on: Introduce Know Your Numbers (BP, Chol, TG, and BMI)
- 3. Shopping, Preparing, and Cooking for Heart Healthy Meals
 - Add-on: Medication Therapy Management
- 4. Heart-Healthy Eating for Life
 - Add-on: Evidence-Based Community Programs & Resources



Cooking Demonstrations

- Based on American Heart Association's Simple Cooking with Heart
 - In collaboration with the University of Delaware Cooperative Extension



- Meat: Cuts, Braising, Slow Cookery
- Salads: Buying, Storing, Preparing Fruits and Vegetables
- Fish and Shellfish: Varieties, Cooking Methods





Participant Materials and "Graduation Box"

Upon completion of the program, participants will receive a

Healthy Heart graduation kit containing:

- Measuring cups
- Measuring spoons
- Apron
- Tape measure keychain
- Food scale
- And the New American Heart Association Cookbook
- Certification of completion





Referral Pathways

- To enroll or for more details, contact the Delaware Division of Public Health by phone at 302-208-9097 or via email at DHSS_DPH_HHA@Delaware.gov
- Online registration scan the QR code or visit: <u>https://www.healthydelaware.org/Individuals</u> <u>/Heart/Healthy-Heart-Ambassador-Program#enroll</u>





Provider Referral Pathways





- HHA-BPSM Fax
 Referral Form
- Referral letter
- Provider Feedback
 Form
- Unite Us (Unite DE)



HHA-BPSM Program

- Who is eligible?
- How does the program work?
- How can people get connected?
- Download the program flyer

Healthy Heart Ambassador Blood Pressure Self-Monitoring Program





- Do you have **high blood pressure** (BP) or take medication to control your BP?
- Do you struggle to keep your BP controlled?
- Do you worry about the health risks of having high BP?

If you answered **YES** to any of these questions, take advantage of a *NO COST* program that will teach simple yet effective skills to:

- · Manage and understand blood pressure
- Set and achieve health goals
- · Adopt healthier eating habits
- Increase physical activity



During the four-month program, participants will receive:

- · A FREE blood pressure monitor
- Training on how to track your blood pressure at home
- Two personalized virtual support sessions per month with a trained Healthy Heart Ambassador
- Monthly virtual Nutrition Education Seminars and "Simple Cooking with Heart" cooking demonstrations

Eligibility Requirements

- ✓ Delaware resident
- ✓ Over 18 years old
- ✓ High blood pressure diagnosis
- ✓ No cardiac events in the previous one vear
- Do not have an irregular heart bear (atrial fibrillation or other arrhythmias)
- ✓ Do not have or at risk for lymphedema (swelling in the limbs)

Get More Information and Enroll Today

- Call: 302-208-9097
- Email: DHSS_DPH_HHA@delaware.gov
- Scan this QR Code:

AGT NOW: The sooner you get your BP under control, the better your chances of avoiding heart disease and other health problems!



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HHA-BPSM Facilitator Opportunities



Volunteer Facilitator Benefits:

- Eight hours of free training will be provided based on your schedule
- Hands-on patient engagement experiences that are perfect for CNAs, retirees, and clinical quality team staff
- Program support materials
- Contributing to improved health in your membership
- Download the <u>Volunteer Program Facilitator</u> flyer



Objective 3:

Describe hypertension guidelines and how to utilize them in your practice.





Why Guidelines?

- Why do guidelines exist?
 - Enable consistency of care
 - Improve health outcome
 - Narrow the gap between ideal and current clinical practice
- Why do guidelines change?
 - Allow for earlier intervention
 - Changes in interventions
 - New evidence/data



Hypertension Guidelines

	JNC-8	ACC/AHA (2017)
Methodology	Initial systematic review of RCTs 1996-2013, subsequent review of RCT evidence and recommendations based on standardized protocols	Heavily weighted to SPRINT trial, an RCT assessing standard vs. strict BP treatment goals
Definitions	Normal: <120/80 Prehypertension: 120-139/80-89 Stage 1: 140-159/90-99 Stage 2: >160/>100	Normal: <120/80 Elevated: SBP 120-129 Stage 1: 130-139/80-89 Stage 2: >140/>90
Thresholds for initiating meds	>60yo>150/90 <60yo or comorbid conditions (DM, CKD) > 140/90	>130/SBP or >80 DBP if hx of CVD or >10% ASCVD risk >140/90 if no clinical CVD and <10% ASCVD risk
Treatment Goals	<140/90 if ,60yo or comorbid conditions (DM, CKD) <150/90 if >60 yo	<130/80
Treatment Algorithm	Start 1 med – follow up 1 mo. – add med or increase dose if not at goal BP	One med for stage 1. Two meds for stage 2 with different mechanisms of action
Considerations	Based primarily on data prior to 2013; data from HOPE-3 study used intermediate-risk patients	New definitions increase number of Americans with HTN; SPRINT study methodology of BP measurement technique; data from SPRINT study used higher risk patients

Adapted from Hypertension: JNC-8 (2014) vs AHA/ACC (2017), by Campbell et al., 2018.



Hypertension Guidelines (cont.)

AREAS OF AGREEMENT JNC 8 AND ACC/AHA HYPERTENSION GUIDELINES					
1	2	3	4		
Lifestyle modifications (DASH diet, weight loss, exercise, smoking cessation) are first-line and are paramount for reducing morbidity and mortality associated with elevated BP. These interventions do not carry any of the risks associated with medications.	Proper measurement of BP is vital.	Ambulatory or self-measured blood pressure monitoring may be helpful in circumventing white coat hypertension and placing patients on unnecessary medications.	Engage patients in shared decision making.		

Adapted from <u>Hypertension: JNC-8 (2014) vs AHA/ACC (2017)</u>, by Campbell et al., 2018.



Interventions to Support Guideline Implementation



- Regular exercise
- Weight loss
- Healthy diet
- Reduced sodium intake
- Smoking cessation
- Moderate alcohol intake

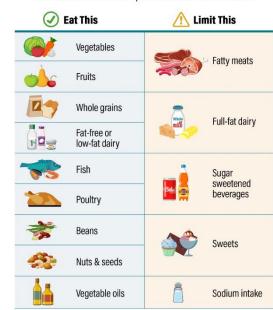


Healthy Diet

- DASH diet (Dietary Approaches to Stop Hypertension)
 - National Institutes of Health suggest people can naturally lower their BP by 3-20 points in weeks to months
 - Flexible and balanced
 - Easy to follow

DASH Eating Plan

The Benefits: Lowers blood pressure & LDL "bad" cholesterol.



www.nhlbi.nih.gov/DASH



Source: National Heart, Lung, and Blood Institute, 2021.



CDC-Recognized Lifestyle Change Programs

Weight Watchers (WW®)	Taking Off Pounds Sensibly (TOPS®)	Curves [®]	
Two membership plans (Core and Premium) Award-winning app along with website to track food, physical activity, and weight loss Certified coaches that lead inperson or virtual workshops and lend support building healthy behaviors and habits	Online and onsite membership plans with weekly meetings My Day One, a guide to healthy living One-year subscription to TOPS* News magazine Weight tracker and cover Five-week online video series Self-care program	Benefits: In-club and at-home membership options 30-minute total body circuit workout Travel privileges and member portal Supportive community of women Specialty fitness classes Experienced and professional coach at every workout	
Membership prices depend on zip code. Visit www.weightwatchers.com/us/find-a-	Membership is just \$49 per year plus nominal chapter fees of about \$5 per month. *Your first visit to any in-person chapter is free. Visit www.tops.org to learn more and	Prices vary based on in-club membership options. Visit www.curves.com to learn more	
meeting to find the nearest WW®.	click "JOIN" or call 414-482-4620.	and find a Curves near you.	



Telehealth Strategies and Interventions

- Remote patient monitoring
 - Use of electronic devices to record a patient's health data for a provider to receive and evaluate at a later time
- Text messaging
 - Tailored patient education
 - Medication and/or appointment reminders
- Live videoconferencing
- mHealth
 - Health-related applications on smart devices to help manage chronic conditions

CDC, 2020



HYPERTENSION

IMPROVED CONTROL

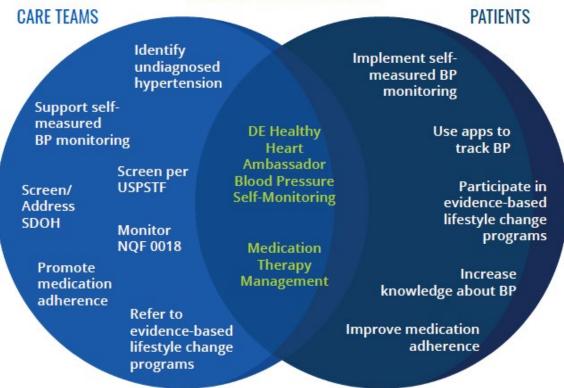
Engaged Care Teams

- + Patient Partnerships
- + Evidence-Based Programs
- Improved Hypertension Control





EVIDENCE-BASED PROGRAMS





Case Scenario #1

- Patient LM
 - Hispanic female age 30
 - Chief complaint/reason for visit:
 - Annual Wellness Visit
 - Medical history:
 - Diabetes Mellitus, Type 1
 - Elevated blood pressure for >1 year when presenting to the office
 - Today's blood pressure: 130/86



Patient History

- Family history
 - Hypertension and CKD Stage III on the father's side
 - Polycystic ovarian syndrome on the mother's side
- Social history:
 - Married, 1 child
 - Employed full time
 - Drinks 2-3 alcoholic beverages on weekends



Plan: Monitor and Educate

- Educate patient on what self-measured blood pressure (SMBP) is and why it is important.
- Have clinical staff member educate the patient on proper blood pressure measuring techniques.
- Monitor SMBP measurements to determine if the patient truly has white coat hypertension or undiagnosed hypertension.



Case Scenario #2

- Patient MT
 - White male age 56
 - Chief complaint/reason for visit:
 - One month follow-up for uncontrolled hypertension
 - Medical history:
 - Hypertension, uncontrolled
 - Prediabetes
 - Elevated cholesterol



Patient History

Family history

- Hypertension on both sides
- Diabetes mellitus, type 2 on the mother's side
- Renal disease on the mother's side

Social history:

- Married with two children
- High school degree employed full time
- Lives in an impoverished neighborhood
- Closest grocery store is three buses away
- Neighborhood is safe for exercise during daylight hours



Plan: Educate and Refer

- Assess patient's openness to change.
- Educate patient on the effect of lifestyle on hypertension control.
- Refer patient to <u>HHA-BPSM program</u> for guidance on nutrition and lifestyle.



HYPERTENSION

KEYS TO CONTROL



Engage Care Teams to Screen All Patients to Identify Hypertension

- Identify a hypertension champion to engage the team in hypertension prioritization and develop protocols and workflows.
- Monitor NQF 0018 (Blood Pressure Control) and report at regular staff meetings.
- Participate in the <u>2024 Million Hearts® Hypertension Control</u>
 <u>Challenge</u>. Extend your care team by referring eligible patients to no-cost medication therapy management through the Delaware Division of Public Health (DPH)/Delaware Pharmacists Society.



HYPERTENSION

KEYS TO CONTROL



Partner with Patients

- Teach patients that nonpharmacological interventions, such as evidence-based community programs that promote heart-healthy lifestyles, are integral components of their treatment plan.
- Empower patients to manage their blood pressure by:
 - Referring to no-cost, evidence-based <u>Delaware HHA-BPSM</u> <u>program</u>, or
 - Participating in the blood pressure monitor loaner program from DPH and Quality Insights.
- Encourage participation in medication therapy management.



Medication Therapy Management

Overwhelmed by your medicine cabinet?

If you or a loved one is taking a large number of medications and are concerned about possible drug interactions and side effects, your pharmacist can help.

Many people are taking more and more medications today to improve health and extend their lives. Unfortunately, if not taken properly, medications don't always work the way we expect them to, and in some cases can even cause harm.

Your pharmacist can help you realize the full scope of your medication routine, by pointing out possible interactions between your medications (prescription, over the counter, vitamins and supplements). They can also provide valuable information on potential cost savings and tips to get the most benefit from your medication.



Why wait? Schedule an appointment today to take advantage of all your pharmacist has to offer you.





27 North Main Street Smyrna, DE 19977

P: (302) 659-3088 F: (302) 659-3089 W: www.dpsrx.org E: dpsmtmprogram@gmail.com

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Do you have high blood pressure and need help with managing your condition and medicines?



Take Advantage of FREE Assistance!

The Delaware Pharmacists Society (DPS) has pharmacists available to help at NO COST to you.



About DPS

DPS was founded in 1886 as a non-profit, professional association for pharmacists in the state of Delaware. DPS members practice in a variety of settings and provide many patient care services including patient education, wellness programs, smoking cessation counseling, and immunizations.

What is Medication Therapy Management?

Medication Therapy Management (MTM) services are provided by trained pharmacists. Pharmacists provide in-depth one-on-one review of all of your medications (prescription, over-the-counter, vitamins, and supplements) to ensure that your current drug therapy is both safe and effective.

During this time with your pharmacist, any questions that you have about your medications can be answered. The goal is to help you get the most from your medications.

The goal is to help you get the most from your medications!



Who can schedule an appointment for this service?

DPS currently provides MTM services to patients with high blood pressure (hypertension). This service is available at no cost to the patient.

Why is MTM important to me?

Managing your health becomes more difficult if you are taking more than one kind of medication.

Questions to ask your pharmacist:

effects?

each other?

- Why am I taking these medications?
 Are my medications working the
- way they should?

 Can I do anything about the side
- Am I taking them in the right order
- and at the right time of day?

 Are my medications interacting with
- Are all my medications really making me feel better?
- How are my medications affecting
 my blood pressure, cholesterol and



Getting the Most from Your Medication

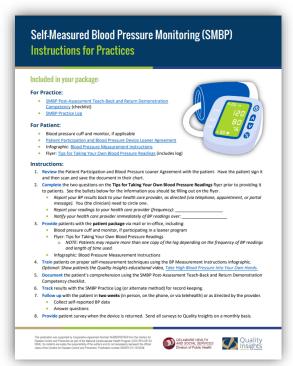
During the appointment, the pharmacist will review your health status and treatment plan. This will allow the pharmacist to ensure:

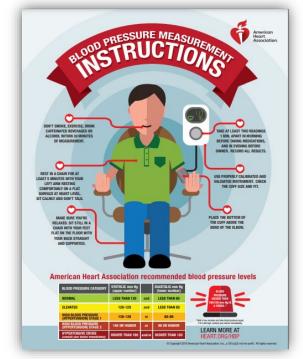
- You are taking only the medications you need.
- You are taking the correct amount of medicine at the right time.
- Your medications are not interacting with each other.
- Any vitamins, supplements or over the counter drugs you are taking are safe and effective.
- You are not spending more than you need to for your medications.
- You will receive information to share with your healthcare provider.

Download the Medication Therapy Management brochure.



Blood Pressure Monitor Loaner Program





Source: American Heart Association, 2018.

Download this flyer here.



HYPERTENSION

KEYS TO CONTROL

Use Tools and Resources



- Refer eligible patients for the <u>HHA-BPSM program</u> through an outreach campaign via portal message, text, or letters
- Loan blood pressure monitors to patients according to protocol
- Provide patients with information about free <u>smartphone apps</u> to help track their blood pressure and blood pressure medications
- Enhance patient education by using the series of three videos available from Quality Insights that can be shown in waiting areas, telehealth, patient portal, or provided directly to patients.
 - Small Steps to Big Improvements
 - Ready, Set, Go: A Roadtrip through Hypertension
 - Take High Blood Pressure into Your Own Hands

Tools and Resources – Quality Insights

- Delaware HHA-BPSM Program Patient Flyer
- HHA-BPSM Program Provider Referral Form
- HHA-BPSM Volunteer Program Flyer
- Medication Therapy Management Fax Referral Form
- Keep Hypertension Under Control with these Smartphone Apps
- CDC Recognized Lifestyle Change Programs: <u>Curves, Tops, WW, HHA</u>
- Educational video: <u>Small Steps to Big Improvements</u>
- Educational video: Ready, Set, Go: A Road trip through Hypertension
- Educational video: <u>Take High Blood Pressure into Your Own Hands</u>





Resources – AmeriHealth

- Care Coordination Staff
- Guide to Medical Management of Adults with Hypertension
- Report on Clinical Practice Guidelines
- DE Member Handbook & DE Provider Manual
- DE Health Literacy Brochure



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Note... you can save site as a favorite, bookmark or Google

MSD

Claim Your Credit: Activity Code – Type in K B X U L P

Note... You will receive a new Activity Code for each session

Log In: Enter your E-mail & Password

Note... New User needs to set up account (one time process)

Confirm Attendance: Complete Survey



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