

Screening, Measurement, and Self-Management of Blood Pressure

February 2023

Improving the Health of Americans Through Prevention and Management of Diabetes, Heart Disease, and Stroke Program



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Purpose of Module

This module contains a high-level overview of evidence-based information related to cardiovascular (CV) health and blood pressure (BP) management. It is designed to promote and supplement your current quality improvement efforts.

Sections are highlighted by the “3 As” – **Awareness, Assessment, and Action** – and include many tools and resources that may also be located on the [Quality Insights website](#).

Note: Guidelines referenced in this module are provided in brief, summary format. Full recommendations should be reviewed in the original publication(s) and utilized with physician/clinician judgment, with consideration given to a patient’s unique needs and circumstances.



The Pressure is Off: Partner with Quality Insights

[Quality Insights](#) is dedicated to assisting your health care team in achieving optimal BP management. Through our partnership with the Delaware Division of Public Health, we offer a wide variety of services designed to help you improve and reach your quality improvement goals focused on hypertension, cholesterol, diabetes, and prediabetes management. Quality Insights provides on-site and virtual assistance to practices aiming to improve CV health in their patient population.

A few key services offered by Quality Insights include:

- 1) Technical Assistance:** Quality Insights’ Practice Transformation Specialists are available to support your clinical quality improvement goals and improve value-based care in your practice setting.
- 2) Be Recognized for Your Achievements:** Are you making great progress in BP control in your practice with National Quality Forum (NQF) 0018 reporting above 70 percent and/or 80 percent? If so, allow Quality Insights to help you apply for national recognition through the [Target: BP™](#) and [Million Hearts® Hypertension Control Champion](#) programs.
- 3) Healthy Heart Ambassador Blood Pressure Self-Monitoring (HHA-BPSM) Program:** Provided by the Delaware Division of Public Health, this program connects patients with a health coach who is trained to provide evidence-based support for managing BP at home and achieving health goals. View [page 22](#) to learn more about this program.

Quality Improvement Solutions for You and Your Patients

The services above represent just a small sample of the ways Quality Insights can support your practice. Discover all the ways the team at Quality Insights can help you and your patients make BP control the goal by reviewing this [Self-Management of Blood Pressure Workflow Modification Guide](#) or by contacting [Ashley Biscardi](#) at **1.800.642.8686, ext. 137** to learn more.



Awareness: The Value of Blood Pressure Targets and Control



Cardiovascular (CV) health remains a top public health priority with heart disease and stroke maintaining their stature as the first and fifth leading causes of death in the United States ([Xu et al., 2022](#)). 2020 [data](#) from the National Center for Health Statistics confirms that heart disease and stroke were the first and fifth leading causes of death, respectively, in Delaware as well.

Globally, the leading modifiable risk factor for premature cardiovascular death continues to be high systolic blood pressure ([Vaduganathan et al., 2022](#)). [High blood pressure](#) (BP) is a contributing factor to major health conditions including heart attack, heart failure, stroke, and kidney failure. Approximately 32 percent of adults in America have been diagnosed with high blood pressure, while in Delaware that number is about 36 percent ([America's Health Rankings, 2022](#)).

36.2%

In 2021, 36.2% of DE adults reported being told by a health professional that they had high BP, exceeding the national percentage of 32.4%.

Source: [America's Health Rankings, 2022](#)

[“The Global Burden of Cardiovascular Diseases and Risk: A Compass for Future Health”](#) asserts that “multilevel pharmacological and nonpharmacological interventions are needed to address the risks of high blood pressure on health.” The publication (2022) also suggests simplification of BP control strategies and emphasizes the vital role of public health strategies in promoting screening, detection, and treatment of HTN.

Evaluating the Data

[“Blood Pressure Control Among US Adults, 2009 to 2012 Through 2017 to 2020”](#) was published in 2022 and analyzed the [National Health and Nutrition Examination Survey \(NHANES\)](#) data from 2009 to 2012, 2013 to 2016, and 2017 to 2020 to provide findings on hypertension in the United States. When reviewing the report, it is important to recognize which definition of HTN is being used for any given data; definitions are stipulated with tables and throughout the document. HTN and HTN control are defined according to either the [“Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure”](#) (JNC 7) or the [“2017 ACC/AHA/AAPA/ABC/ACPM/AGS/APhA/ASH/ASPC/NMA/PCNA Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults”](#) (2017 ACC/AHA Guideline).

The [Centers for Disease Control and Prevention \(CDC\)](#) acknowledges guidelines used to diagnose HTN may differ among health care professionals.

- According to the [JNC 7](#), some health care professionals diagnose patients with HTN when Systolic Blood Pressure (SBP) ≥ 140 mm Hg or Diastolic Blood Pressure (DBP) ≥ 90 mm Hg. Controlled BP is defined as SBP < 140 mm Hg and DBP < 90 mm Hg.

- According to the [2017 ACC/AHA Guideline](#), other health care professionals diagnose patients with HTN when SBP \geq 130 mm Hg or DBP \geq 80 mm Hg. Controlled BP is defined as SBP $<$ 130 mm Hg and DBP $<$ 80 mm Hg.

Blood Pressure Levels			
The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (2003 Guideline) ²		The American College of Cardiology/American Heart Association Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults (2017 Guideline) ¹	
Normal	systolic: less than 120 mm Hg diastolic: less than 80 mm Hg	Normal	systolic: less than 120 mm Hg diastolic: less than 80 mm Hg
At Risk (prehypertension)	systolic: 120–139 mm Hg diastolic: 80–89 mm Hg	Elevated	systolic: 120–129 mm Hg diastolic: less than 80 mm Hg
High Blood Pressure (hypertension)	systolic: 140 mm Hg or higher diastolic: 90 mm Hg or higher	High blood pressure (hypertension)	systolic: 130 mm Hg or higher diastolic: 80 mm Hg or higher

From "[High Blood Pressure Symptoms and Causes](#)," by CDC, 2021.

Data from the "[Blood Pressure Control Among US Adults, 2009 to 2012 Through 2017 to 2020](#)," based upon definitions from the [2017 ACC/AHA Guideline](#) and three survey periods of four years each (2009 to 2012, 2013 to 2016, and 2017 to 2020):

- Among adults, the prevalence of hypertension rose from 45.8% in 2009 to 2012 to **46.5%** in 2017 to 2020.
- Among non-Hispanic Asian adults, HTN increased in prevalence.
- Among all U.S. adults with HTN, the percentage with controlled BP declined from 25.8% to 24.8%, and finally to **24.3%**.
- The percentage of adults with HTN who were taking antihypertensive medication and had controlled BP also declined from 45.2% and 45.0%, respectively, to **43.4%**.
- The proportion of adults with HTN who were aware they had HTN was **65.5%**, **66.9%**, and **64.4%**, respectively.
- Among those with HTN awareness, the proportion taking antihypertensive medication was **85.2%**, **82.8%**, and **84.2%**, respectively.

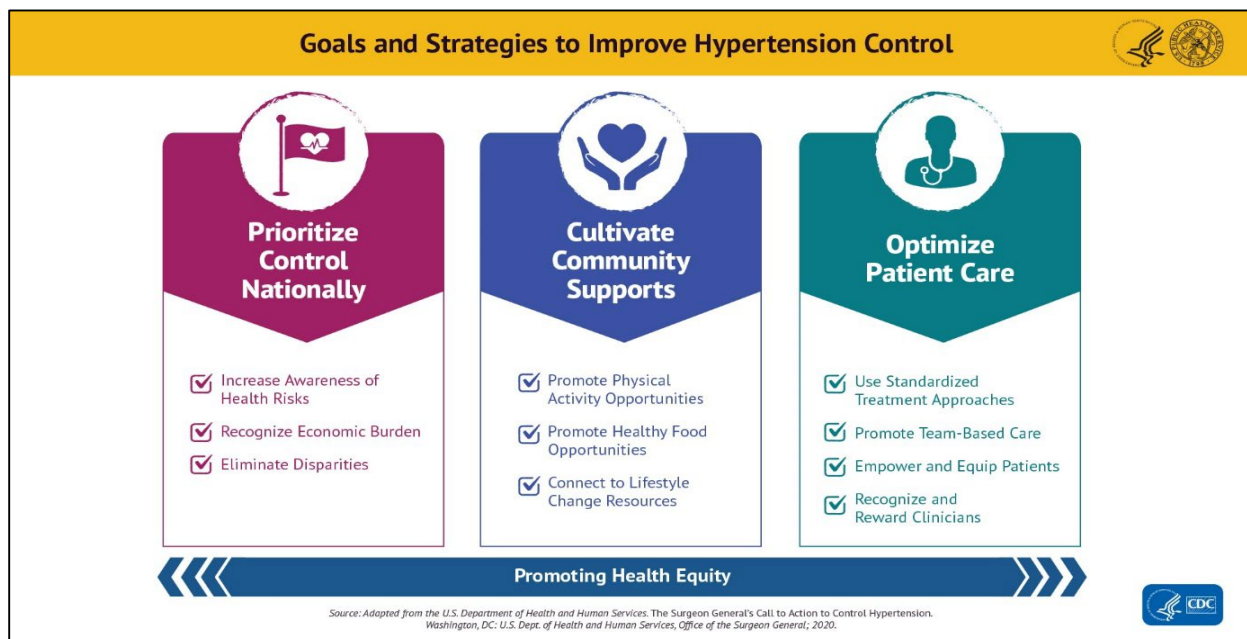
Data from the “[Blood Pressure Control Among US Adults, 2009 to 2012 Through 2017 to 2020](#),” based upon definitions from the [JNC 7](#), and three survey periods of four years each (2009 to 2012, 2013 to 2016, and 2017 to 2020):

- There was a decline in controlled BP among US adults with HTN, from 52.8% in 2009 to 2012 to 51.3% and then **48.2%**.
- Among non-Hispanic Asian adults, HTN increased in prevalence to **33.5%**.
- Among Hispanic adults, HTN increased in prevalence from 29.4% to **33.2%**.
- The percentage of adults with HTN who had controlled BP declined from 52.8% to **48.2%**.
- Controlled BP declined among women and non-Hispanic Black adults.
- Among those with HTN awareness, the proportion taking antihypertensive medication was **91.9%**, **89.2%**, and **90.6%**, respectively.
- Among non-Hispanic Black adults with HTN awareness, the proportion taking antihypertensive medication declined from 90.9% to **87.1%**.

The Surgeon General's Call to Action to Control Hypertension (Call to Action)

[The Surgeon General's Call to Action to Control Hypertension \(Call to Action\)](#), released October 2020, “seeks to avert the negative health effects of hypertension by identifying evidence-based interventions that can be implemented, adapted, and expanded in diverse settings across the United States” ([DHDS](#), 2020).

“The *Call to Action* outlines three goals to improve hypertension control across the United States, and each goal is supported by strategies to achieve success” ([CDC](#), 2020).

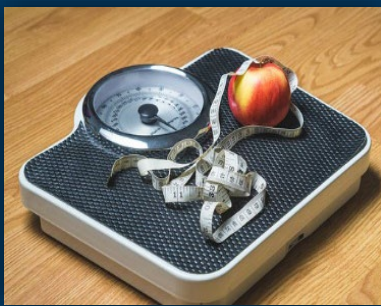


From [The Surgeon General's Call to Action to Control Hypertension](#), by CDC, 2020.

Learn more about the *Call to Action* by accessing:

- [CDC Prevent and Manage High Blood Pressure website](#)
- [CDC Call to Action Partner Toolkit](#)
- [U.S. Department of Health and Human Services Office of the Surgeon General website](#)
- [The Surgeon General's Call to Action to Control Hypertension: How Health Care Professionals Can Help](#)
- [The Surgeon General's Call to Action to Control Hypertension: How Health Care Practices, Health Centers, and Health Systems Can Help](#)

Preventing and Treating High Blood Pressure Is About More Than Just the Numbers



A February 17, 2022, [Health and Well-Being Matter](#) feature from Paul Reed, MD, Director, Office of Disease Prevention and Health Promotion, emphasizes that “preventing, identifying, and treating hypertension should be about much more than just measuring blood pressure and prescribing medicine. Instead, addressing high blood pressure should be an exemplar of comprehensive, person-centered care — promoting greater overall health, well-being, and personal resilience.” [Read more on the ODPHP's blog at health.gov.](#)

Quality to Improvement

Quality Insights is not the only free resource available to assist outpatient organizations with quality improvement. Co-led by the CDC and the Centers for Medicare & Medicaid Services (CMS), the [Million Hearts® 2027](#) initiative strives to increase the likelihood of preventing one million preventable deaths from cardiovascular disease over a five year period (January 2022 to December 2026) through a 20 percent improvement in key indicators.

With a desire to reduce cardiovascular deaths, the American Heart Association (AHA) offers a suite of outpatient care quality improvement initiatives - [Target: BP™](#), [Check. Change. Control. Cholesterol™](#), and [Target: Type 2 Diabetes™](#). The initiatives supply incredible resources intended to provide support to improve outcomes, for the benefit of clinicians and patients. Additional information on each of the AHA programs is provided in their [flyer](#).



Million Hearts® 2027

Check out the Million Hearts® webpage for details about the [Million Hearts® 2027 framework](#), evidence-based strategies, and populations of focus for addressing health equity.



Learn More About TARGET: BP™

An initiative resulting from collaboration between the AHA and the American Medical Association, [Target: BP™](#) aims to assist and recognize the organizations that improve BP control rates. Interested in learning more about Target: BP™?

- [Quality Insights' Target: BP Recognition Program Interview with Multi-Cultural Health Evaluation Systems, Inc. \(MHEDS\)](#)
- [Target: BP™ 2022 Recognition Flyer](#)
- [BP Improvement Program](#)

Many studies assert the need for [standardized treatment protocols](#) as well as a need to develop targeted strategies for achieving blood pressure control by addressing the [differing barriers](#) of each racial/ethnic group. The [CMS' Disparities Impact Statement](#) is a tool meant to assist health care stakeholders with identifying, prioritizing, and taking action to achieve health equity for all populations. According to [CMS](#), “participants receive personalized technical assistance focused on strengthening your quality improvement program through a series of consultations from subject matter experts.” Provided on the tool is an email address for Health Equity Technical Assistance.

National Campaigns Support Blood Pressure Control

A number of national campaigns are collectively raising awareness around the importance of BP control. One such initiative promoted by Quality Insights is [Healthy People 2030](#), the fifth iteration of national public health priorities created by the U.S. Department of Health and Human Services' Office of Disease Prevention and Health Promotion in 1980. As a [Healthy People 2030 Champion](#), Quality Insights is committed to working toward the achievement of Healthy People 2030's vision, a society in which all people can achieve their full potential for health and well-being across the lifespan. Healthy People 2030 has a number of objectives that target blood pressure.



Included in [Healthy People 2030](#) is an objective targeting [increased control of high blood pressure in adults](#) to 18.9 percent, with 2017-2020 data reflecting only 16.1 percent of adults had their BP under control. This particular objective is also one of 23 [Leading Health Indicators](#), a subset of high-priority objectives that impact major causes of death and disease in the U.S. Other [related objectives](#) include: reduce the proportion of adults with high blood pressure, reduce the proportion of adults with chronic kidney disease who have elevated blood pressure; improve cardiovascular health in adults, reduce stroke deaths, and reduce coronary heart disease deaths.

Below are additional initiatives offering valuable tools and resources for health care providers and patients.

Blood Pressure Control Initiatives

[Delaware Hypertension Control Network](#): The state of Delaware has the 3rd largest rate of mortality from stroke in the entire U.S ([CDC](#), 2020). The American Heart Association (AHA) gathered a group of advocates, hospital and private practice representatives, like-minded nonprofit organizations, physicians, and nurses to form the Delaware Hypertension Control Network. The group’s priority is to achieve more than 70 percent or greater hypertension control across Delaware by 2024. Learn more about the network and how your practice can participate by contacting Ashley Biscardi at abiscardi@qualityinsights.org.

[Live to the Beat](#) - Led by the CDC Foundation and the Million Hearts® initiative, this is a belief change campaign that aims to promote heart healthy eating, physical activity, and working with a health care professional to improve the cardiovascular health of Black adults 35 to 54 years of age. Also offered as part of the campaign is [Pulse Check](#), an interactive learning tool for those wanting to take charge of their lives.

[Know Your Numbers](#) - Launched by the National Forum for Heart Disease and Stroke Prevention, this campaign provides multiple videos and media resources emphasizing the importance of patients knowing their BP, blood sugar, and cholesterol levels to improve and maintain cardiovascular health.

[Heart-Healthy Steps](#) - Led by the CDC Foundation and the Million Hearts® initiative, this website is designed to support a heart healthy lifestyle for adults 55 and over by encouraging small steps to live big. This program is part of the “Start Small. Live Big.” campaign.

[HHS Office on Women’s Health Self-Measured Blood Pressure Partnership Program](#) - Quality Insights is now working as part of this national network of public and private organizations to amplify and increase knowledge about hypertension and cardiovascular disease, expand access to SMBP resources, and more. [Access SMBP resources here](#).

National Institute of Health: [The Heart Truth](#)® - This health education program focuses on making sure women know about their risk for heart disease. Find [high BP education resources](#) here.

[Release the Pressure Campaign](#) - This coalition of national health care professional organizations and heart health experts share a goal of partnering with Black women to support their heart health. Visit their patient-facing website for [BP resources](#).

[Get Down With Your Blood Pressure](#)™ or **[Éntrale a Bajar tu Presión](#)**™ - This high BP control campaign is led by the American Medical Association (AMA) and the AHA and encourages daily monitoring and good communication with the healthcare provider.

A Practical Solution: Self-Measured Blood Pressure (SMBP) Monitoring

Given the toll that hypertension plays in our nation and the impact COVID-19 has had on the frequency of in-person check-ups, there is increased support for the use of home monitoring. As mentioned in a [2022 article](#), many U.S. and international guidelines recommend SMBP to confirm a diagnosis of new hypertension and for the management of hypertension. [National actions](#) promoting SMBP extend back to 2008. When performed accurately, more frequent and regular evidence of high BP readings can bolster the diagnosis and facilitate a more informed treatment plan.

SMBP interventions when combined with team-based care or additional [clinical support](#) (e.g., educational classes, one-on-one counseling, and telephonic/web-based support) help people with hypertension lower their BP, aid in ensuring that patients are diagnosed more accurately, improve access and quality of care, and are [cost-effective](#).



[Self-Measured Blood Pressure Monitoring \(SMBP\)](#) is defined as the regular measurement of blood pressure by a patient at home or elsewhere, outside the clinic setting, using a personal home BP measurement device.

Source: [Million Hearts](#), 2022

Evidence for SMBP

Strong scientific evidence over many years supports the benefits of SMBP. More recent evidence includes:

- In “[Medication Adherence and Blood Pressure Control: A Scientific Statement from the American Heart Association](#),” based on existing evidence, SMBP is suggested as one method to improve antihypertensive medication adherence.
- A [Grade A Final Recommendation Statement](#) was issued by the U.S. Preventive Services Task Force (USPSTF) in April of 2021, recommending “screening for hypertension in adults 18 years or older with office blood pressure measurement (OBPM). The USPSTF recommends obtaining BP measurements outside of the clinical setting for diagnostic confirmation before starting treatment.”
- In 2021, the Public Health Informatics Institute (PHII) and CDC conducted a national assessment of health information technology supporting SMBP monitoring. The report, [Self-Measured Blood Pressure Monitoring: Key Findings from a National Health Information Technology Landscape Analysis](#), identifies barriers for widespread adoption of SMBP and makes recommendations for reducing them.
- A 2020 [Joint Policy Statement](#) from the AHA and AMA emphasizes the established clinical benefits and potential cost-effectiveness of SMBP over office BP. Read the [AMA’s 6 Key Takeaways for physicians and health professionals](#).
- A 2020 [Journal of Community Health](#) paper reviewing a 2016-2018 CDC-funded project of the National Association of Community Health Centers (NACHC), the YMCA of the USA, and

Association of State and Territorial Health Officials (ASTHO) to increase the use of SMBP through coordinated action of health department leaders, community organizations, and clinical providers. Nine health centers in Kentucky, Missouri, and New York developed and implemented collaborative SMBP approaches that led to 1,421 patients with uncontrolled hypertension receiving a recommendation or referral to SMBP. Associated SMBP implementation methods, toolkits, and resources can be accessed [here](#).

- Million Hearts® released a second edition of its [Hypertension Control Change Package](#) in 2020, featuring tested tools and resources that have enabled Hypertension Control Champions to achieve high levels of BP control with patients. SMBP-focused content is included as an important aspect of hypertension control.



SMBP Best-Practices Video

Watch the three-minute video, [Collaborative Care Models for Improving Hypertension Control through SMBP Monitoring](#), to learn about best practices used in nine health centers to improve use of SMBP.

Assessment: Tools and Your Care Team

Categorizing Blood Pressure Levels in Adults

For health care professionals utilizing the [2017 ACC/AHA Guideline](#), “BP is categorized into four levels on the basis of average BP measure in a health care setting (office pressures): normal, elevated, and stage 1 or 2 hypertension. The table provided below reflects these categories.”

Categories of BP in Adults*

BP Category	SBP		DBP
Normal	<120 mm Hg	and	<80 mm Hg
Elevated	120-129 mm Hg	and	<80 mm Hg
Hypertension			
Stage 1	130-139 mm Hg	or	80-89 mm Hg
Stage 2	≥140 mm Hg	or	≥90 mm Hg

*Individuals with SBP and DBP in 2 categories should be designated to the higher BP category.

Table 6

From [“2017 Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults: Guidelines Made Simple, A Selection of Tables and Figures,”](#) by ACC/AHA Task Force on Clinical Practice Guidelines, 2017.

According to the [2017 ACC/AHA Guideline](#), the table below “provides best estimates for corresponding home, daytime, nighttime, and 24-hour ambulatory levels of BP, including the values recommended for identification of hypertension with office measurements.”

Corresponding Values of Systolic BP/Diastolic BP for Clinic, Home (HBPM), Daytime, Nighttime, and 24-Hour Ambulatory (ABPM) Measurements.

Clinic	HBPM	Daytime ABPM	Nighttime ABPM	24-Hour ABPM
120/80	120/80	120/80	100/65	115/75
130/80	130/80	130/80	110/65	125/75
140/90	135/85	135/85	120/70	130/80
160/100	145/90	145/90	140/85	145/90

ABPM indicates ambulatory blood pressure monitoring; BP, blood pressure; DBP, diastolic blood pressure; HBPM, home blood pressure monitoring; and SBP, systolic blood pressure.

From “[2017 Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults: Guidelines Made Simple, A Selection of Tables and Figures](#),” by ACC/AHA Task Force on Clinical Practice Guidelines, 2017.

Making a Difference through Accurate Measurement

Accurate measurement of BP is essential both to estimating cardiovascular disease (CVD) risk and guiding management of HTN. Avoiding common errors can lead to correct diagnosis and speed time to treatment, improving BP control rates. The following sample of resources from [Target: BP™](#) outline practical approaches to improving BP control for your patients through accurate measurement.



- [BP Positioning Challenge](#): Can you identify common positioning errors? Encourage your staff to take the challenge as a quick means to brush up on proper BP measurement technique.
- [Measure Accurately Pre-Assessment](#): Use this resource to help your health care organization identify areas of opportunity to more accurately measure BP in the clinical setting.
- [7 Simple Tips To Get An Accurate Blood Pressure Reading](#): Provides clinicians with information on how to correctly take an in-office BP measurement.
- [Technique Quick-Check](#): Resource for determining if clinicians take BP measurements the right way and the same way every time.
- [CME Course: Measuring Blood Pressure Accurately](#)

Free Blood Pressure Screening Locations by County

Delaware residents can have their blood pressure measured for free at a variety of locations across Delaware. By referring to Quality Insights' county-specific flyers, interested parties can find numerous blood pressure screening locations to choose from, or alternatively, kits available for check out in their vicinity:

- [New Castle County](#)
- [Kent County](#)
- [Sussex County](#)

For Patients: BP Measurement Education Resources

As important as it is to ensure accurate BP readings in the clinical setting, the same is true for patients who are collecting measurements at home. Review the links on the next page to access important educational resources to guide your patients participating in SMBP.

Organization	SMBP Patient Resource	Summary
American Medical Association	How to Measure Blood Pressure Accurately	Brief video that reviews 7 tips to obtain an accurate BP reading.
	Self-Measured Blood Pressure Cuff Selection	Identify steps to determine the appropriate upper arm cuff size.
Quality Insights	Tips for Taking Your Own Blood Pressure Readings	Printable guide to help patients ensure they are getting the most accurate reading at home.
	Blood Pressure Tracking Log	Printable tracking sheet that includes brief instructions for patient use.
	Hypertension Smartphone Apps	Provides a listing of apps available to help patients track their BP readings.
	Video: Ready, Set, Go! A Road Trip Through Hypertension	Patient-facing video that reviews blood pressure levels and their significance.
Target:BP™	What is SMBP?	Overview for patients to understand what SMBP is and why it is important.
	SMBP Training Video	Available in English and Spanish, this educational video helps train care teams and patients on how to properly self-measure BP.

	SMBP Infographic: How to Measure Your Blood Pressure at Home	Steps to perform SMBP monitoring correctly which includes separation, positioning, and measurement. This document is available to download in English, Spanish, and Vietnamese.
	Using a Wrist Cuff to Measure Blood Pressure	Describes correct and incorrect forearm position for wrist blood pressure measurement.
	SMBP Recording Log	Log for documenting two BP measurements twice daily. Also has a small area for notes.

Empower Your Patients: Three-Part SMBP Video Series Provides Tools for Success

Want to help your patients learn how to get their BP under control? [Share this Quality Insights video series](#) (available in English and Spanish). Each video takes less than five minutes to watch and provides easy-to-understand instruction that will assist patients in their SMBP journey.



Team-Based Care for Improved Blood Pressure Outcomes

As explained by the [Community Preventive Services Task Force \(CPSTF\)](#), team-based care is an approach to achieving BP control in which care is provided by a team consisting of the patient and various health professionals, including primary care providers, pharmacists, nurses, dietitians, social workers, or other health workers, rather than by a single doctor. Team members work together to help patients manage their medication, increase healthy behaviors, and follow their BP control plan.

Provider Resource

Unify your team around high BP and CVD prevention by



reviewing [Quality Insights' Care Team Interventions to Implement American Heart Association CVD Primary Prevention Guidelines](#).

To improve patient's BP control, the CPSTF recommends [team-based care](#). A [systematic review](#) of evidence "shows team-based care increases the proportion of patients with controlled blood pressure and reduces systolic (SBP) and diastolic (DBP) blood pressure." Further, providing team-based care is cost-effective, as determined by CPSTF's separate review of economic evidence. For additional information, review the full [CPSTF Finding and Rationale Statement](#).

To inform the work of health care professionals seeking to improve cardiovascular health in their communities, the CDC's Division for Heart Disease and Stroke Prevention (DHDSP) released the [Best Practices for Heart Disease and Stroke: A Guide to Effective Approaches and Strategies](#). The evidence-based, peer-reviewed guide provides 18 strategies for addressing cardiovascular conditions such as heart disease and stroke within one's practice and community. Strategies are organized into the following groupings: coordinating services for

cardiovascular events, engaging organizations to promote cardiovascular health, implementing technology-based strategies to optimize cardiovascular care, leveraging community and clinical public health workforces, and supporting patients in cardiovascular disease self-management.

For more information on ways you can strengthen your care team to provide optimal quality of patient care for BP management, review:

- CDC's [website](#) for the *Best Practices for Heart Disease and Stroke* guide
- [Target: BP™ Combined Quick Start Guides](#) serve as a reference for the care team.
- Register for the [Million Hearts® SMBP Forum](#) to exchange best and promising practices and troubleshoot obstacles with others. The Forum meets online quarterly.
- Quality Insights 2021 White Paper: [Team Up for Quality Care: The Role of Primary Care Teams in Prevention of Cardiovascular Disease](#)
- Success Story: [2020 Million Hearts® Hypertension Control Champions: Delaware Primary Care, LLC](#)

Assessing and Improving Medication Adherence



Medication adherence is a significant barrier to the control of hypertension. A [scientific statement](#) (2022) from the AHA listed a plethora of factors associated with nonadherence, including but not limited to: low health literacy, lack of health care insurance, lack of positive reinforcement from a clinician, complexity of medication regimen, clinician-patient relationship, lack of clinician knowledge about adherence and interventions for improving it, cognitive impairment, chronic conditions, and perceived benefit of treatment.

Medical providers regularly encounter challenges surrounding medication adherence; not surprisingly, improving this area is an important way to increase quality and reduce cost.

The following resources are available to assist you in improving medication adherence in your practice setting:

- [Adherence Estimator®](#): This tool is a patient-centered resource designed to help you gauge a patient's likelihood of adhering to newly prescribed oral medication for certain chronic, asymptomatic conditions.
- AMA's [MAP BP™](#) is a quality improvement program that assists health care organizations with achieving and sustaining improved control of hypertension. MAP stands for **M**easure accurately, **A**ct rapidly, and **P**artner with patients. The program uses a [dashboard](#) that populates from a web link embedded in your EHR, to provide metrics to the organization. Five performance metrics are tracked: overall outcome, confirmatory blood pressure, therapeutic intensity, SPB change after therapeutic intensification, and visit follow-up. Data can be filtered by gender, race, ethnicity, age, date, clinician, and more.

Another evidence-based way to address medication adherence is by collaborating with pharmacists as extended members of your team to provide medication therapy management (MTM). Pharmacists play a crucial role in reducing the risk for heart disease and stroke in the United States.

Quality Insights offers the following resources to assist you in improving medication adherence in your practice setting.

- Provide your patients with an [informational brochure](#) from the Delaware Pharmacists Society to help them understand the benefits of MTM and get connected. An [MTM referral fax form](#) is also available from Quality Insights.
- Partner with Quality Insights for no-cost MTM. Review our [flyer](#) and informative webinar, [Hypertension-Focused Medication Therapy Management: A Collaborative Pilot Program with Pharmacists](#), for additional details.
- [Medication Therapy Management EDISCO™ Course](#): Learn more about the many benefits of MTM by enrolling in a no-cost educational course that will discuss how to refer certain Delaware patients to MTM through the Delaware Pharmacist Society (DPS).
- [Medication Adherence Practice Module](#) and [Workflow Modification Guide](#): Released in February 2022, these materials provide relevant information for navigating adherence barriers. We invite you to share these tools with all of your providers and clinical staff. This information will be updated in April 2023 and located [here](#).
- [Medication Adherence Office Protocol](#)
- [Free Apps to Help You Better Manage Your Medicines](#): Download a selection of useful apps your patients can download as a resource to help them track and monitor their medications.
- For assistance with addressing social determinants of health, review Quality Insights' [Social Determinants of Health Practice Module](#).



For additional guidance on utilizing the skills of pharmacists to improve your patient outcomes:

- [Best Practices for Heart Disease and Stroke: A Guide to Effective Approaches and Strategies Programs](#): This CDC guide (2022) discusses eighteen evidence-based strategies for improving cardiovascular health and each strategy's economic, health, and health equity impact. Collaborative drug therapy management, medication therapy management (MTM) provided by community pharmacists, and tailored pharmacy-based interventions to improve medication adherence are three strategies discussed in the guide, the last of which is new to this edition.
- [Quality Insights' Hypertension Workflow for On-Site Pharmacist](#)
- [The Pharmacists' Patient Care Process Approach: An Implementation Guide for Public Health Practitioners Based on the Michigan Medicine Hypertension Pharmacists' Program](#): This CDC implementation guide (2021) is intended to encourage public health practitioners and health care professionals to collaborate with pharmacists in hypertension management through the

[Pharmacists' Patient Care Process](#). The guide includes key examples that health care teams can replicate in their own programs.

Action: Implement Blood Pressure Control Programs at Your Practice

Evidence-Based Lifestyle Change Strategies and Programs

Living a healthy lifestyle, comprised of a nutrient-dense diet and the inclusion of regular physical activity, is a focal point of the [2017 ACC/AHA Guideline](#). Lifestyle changes that have been shown to be effective include weight loss, healthy diet, reduced intake of dietary sodium, enhanced intake of dietary potassium, physical activity, and moderation in alcohol intake.

Annually, *U.S. News* and its panel of health experts rank diets on a range of levels, from their heart healthiness to their likelihood to help one lose weight. [Best Diets 2023](#) ranked the [DASH](#) diet #2 in best diets overall and #3 (tied) in [Easiest Diets to Follow](#). The inclusion of the DASH diet as an example of a healthy dietary pattern in the [Dietary Guidelines for Americans, 2020-2025](#) further bolsters its value. According to the [National Institutes of Health](#), “people following DASH can naturally lower their blood pressure by [3-20 points](#) within weeks or months.”

The following resources may be of assistance for patients who are ready to engage in lifestyle improvement activities:

- The [DASH Eating Plan](#) (Dietary Approaches to Stop Hypertension) is a flexible and balanced eating plan that helps create a heart-healthy eating style for life.
 - Visit the National Heart, Lung, and Blood Institute (NHLBI) website for additional [heart-healthy cooking resources](#) for a wide range of ages and ethnicities.
 - From the NHLBI: [In Brief: Your Guide to Lowering Your Blood Pressure with DASH](#)
 - From Quality Insights: [DASH Your Way to Lower Blood Pressure](#)
- Sodium reduction clinician and patient resources:
 - For clinicians: [Sodium Q & A Fact Sheet](#) (CDC)
 - [Why Should I Limit Sodium?](#) (AHA)
 - [How too Much Sodium Affects Heart Health](#) (AHA/AMA)
 - [Cut Down on Sodium](#) (ODPHP)
 - [Sodium in Your Diet: Use the Nutrition Facts Label and Reduce Your Intake](#) (FDA) – English

Sodium Reduction

Reducing salt intake typically results in a reduction in BP within weeks.

Read about this and other sodium reduction benefits, challenges, and strategies in the CDC's [Key Messages on Sodium and Sodium Reduction](#) (2021).



- [Sodium in Your Diet: Use the Nutrition Facts Label and Reduce Your Intake](#)
(FDA) – Spanish
- [Life’s Essential 8™](#): Information from the AHA on how to manage BP, control cholesterol, manage blood sugar, be more active, eat better, manage weight, quit tobacco, and get healthy sleep.
- [Smoking Cessation Program](#): Listing of national quitlines, online resources, and medicines to help patients quit smoking.
 - [Delaware Quitline](#)
 - [Delaware Online Quitline and Chat](#)
- [Small Steps to Big Improvements: How to Lower Your Blood Pressure](#): A brief video, created by Quality Insights for the Delaware Division of Public Health, that can be utilized in the waiting room or through messaging to educate patients about lifestyle changes.
- [“Answers by Heart” Blood Pressure Fact Sheets and Multilingual Resources](#), including:
 - [African Americans and High Blood Pressure](#)
 - [High Blood Pressure and Stroke](#)
 - [How Can I Reduce High Blood Pressure? \(Spanish\)](#)
 - Infographic: [Consequences of High Blood Pressure \(Spanish, Traditional Chinese\)](#)
 - Lifestyle Chart: [What Can I Do to Improve My Blood Pressure? \(Spanish, Traditional Chinese\)](#)

The CDC recommends the following evidence-based lifestyle change programs as appropriate choices for referral of adults with high BP:

- [Taking Off Pounds Sensibly \(TOPS\)](#)
- [Weight Watchers \(WW®\)](#)
- [Curves®](#): In-club and at-home memberships are available.
- [Healthy Heart Ambassador Blood Pressure Self-Monitoring Program](#)
- [Expanded Food and Nutrition Education Program](#)



[\(EFNEP\)](#): Facilitated by the University of Delaware, interactive nutrition education is provided through a free series of lessons to those who are eligible. Anyone with limited resources and young children (0 to 18 years old) living at home is qualified. If a patient is eligible for SNAP (food stamps), WIC, Head Start, or free and reduced cost school meals, they are automatically eligible for EFNEP.



Take Control of Hypertension with TOPS® and WW®

Quality Insights developed an at-a-glance guide to highlight benefits of CDC-approved lifestyle change programs available in Delaware. [Download this useful resource here.](#)

SMBP Implementation: Resource Library

The following evidence-based resources provide guidance for health care sites that are considering launching an SMBP program or expanding their current processes. We invite you to visit each organization's website for a complete listing of their available tools and resources.

Organization	SMBP Implementation Resource	Summary
American Medical Association	U.S. Blood Pressure Validated Device Listing (VDL™)	Listing of BP measurement devices that have been validated for clinical accuracy as determined through an independent review process.
	SMBP CPT® Coding	Outlines useful coding information for SMBP and RPM.
	7-Step SMBP Quick Guide	Guide to assist practices with using SMBP. Links to training videos, SMBP CPT® coding information, infographics, and a SMBP recording logs are included.
Colorado Department of Public Health & Environment	SMBP Program Implementation and Reimbursement	Provides an overview of implementation process and reimbursement, for health care professionals.
Million Hearts®	An Economic Case for Self-Measured Blood Pressure (SMBP) Monitoring	One-pager that provides information on return on investment based upon Medicare reimbursement.
	Self-Measured Blood Pressure Monitoring: Action Steps for Clinicians	Guide for implementation of SMBP plus clinical support in four key areas: preparing care teams to support SMBP, selecting and incorporating clinical support systems, empowering patients, and encouraging health insurance coverage for SMBP plus additional clinical support.
	Hypertension Control Change Package (HCCP), 2nd Edition	Presents a listing of process improvements that outpatient clinical settings can implement as they seek optimal hypertension control. It is composed of change concepts, change ideas, and evidence- or practice based-tools and resources.

Organization	SMBP Implementation Resource	Summary
National Association of Community Health Centers (NACHC) and Million Hearts®	SMBP Implementation Toolkit (2022)	Comprised of worksheets that will help you determine your goals and priority populations, design a protocol, assign tasks, and align your patient training approach to your practice environment.
	Choosing a Home Blood Pressure Monitor for Your Practice: At-A-Glance Comparison	Provides an overview of how various blood pressure monitors compare in terms of features and data/technology.
	Improving Blood Pressure Control for African Americans Roadmap	A quality improvement tool focusing on the most impactful, evidence-based interventions to improve hypertension outcomes and reduce disparities.
Public Health Informatics Institute	Health IT Checklist for BP Telemonitoring Software	Quick-reference guide intended to complement the NACHC SMBP Implementation Toolkit.
Quality Insights	CME Webinar: Improving Patient Outcomes with Self-Measured Blood Pressure Monitoring (SMBP)	60-minute, CME-eligible webinar that provides an evidence-based review of SMBP, including an interview with a practice who has successfully implemented a SMBP program.
	Insurance Coverage Options for Blood Pressure Monitors	Two-page guide highlighting BP unit coverage across various insurances.
	Steps for Launching a Self-Measured Blood Pressure Monitoring Program in Your Practice	Learn how to partner with Quality Insights to receive no-cost assistance in developing and implementing a SMBP program in your practice.
Target:BP™	Implement SMBP	Step-by-step guidance and recommendations to help you launch a successful program.
	Webinar: Evolving SMBP Policy and Practice	Discusses policy developments, program design, reimbursement, successes, and challenges associated with SMBP.

Remote Patient Monitoring

For the prevention and management of chronic disease conditions, the CPSTF recommends [telehealth interventions](#) which can be delivered in a variety of ways, including [Remote Patient Monitoring \(RPM\)](#) and [mHealth](#). The conditions the [CPSTF asserts](#) can benefit from telehealth interventions include:

- Recently diagnosed cardiovascular disease (CVD)
- High BP
- CVD, diabetes, HIV infection, end-stage renal disease, asthma, or obesity

According to the [CDC](#), “CPSTF found that the use of telehealth interventions can improve

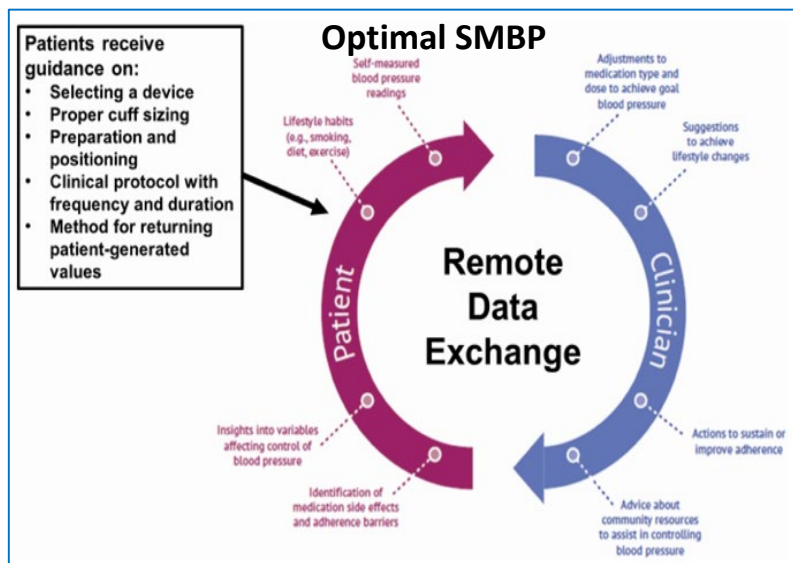
- **Medication adherence**, such as outpatient follow-up and self-management goals.
- **Clinical outcomes**, such as blood pressure control.
- **Dietary outcomes**, such as eating more fruits and vegetables and reducing sodium intake.”

A [2022 article](#) published in the American Journal of Hypertension suggests that “optimal SMBP” requires training and education of the patient on device use and the measuring of one’s BP; transmission of BP values, medication side effects, and lifestyle modifications remotely to the clinician; review by the clinician; remote transmission of guidance on those matters back to the patient; and an indefinite continuance of the patient-clinician feedback loop. The [article](#) mentions the difficulty in quantifying the use of optimal BP but asserts that there is significant room and critical necessity for improvement in the utilization of RPM.

Remote Patient Monitoring (RPM):

“This is the use of electronic devices to record a patient’s health data for a provider to receive and evaluate at a later time. For example, a patient can use RPM to measure their blood pressure regularly and send this information to their provider.”

Source: [CDC](#), 2020



From “[How Do We Jump-Start Self-Measured Blood Pressure Monitoring in the United States? Addressing Barriers Beyond the Published Literature](#),” by Wall et al., 2022.

Many nationally recognized health care organizations have developed toolkits and resources for practices that are implementing RPM. A few of these tools include:

- [AMA Remote Patient Monitoring Implementation Playbook](#): Step through the processes of planning and implementing RPM at your practice with this guide.
- [Mid-Atlantic Telehealth Resource Center: Remote Patient Monitoring Toolkit](#): Designed to help audiences quickly understand RPM and determine role responsibilities, this resources offers a variety of engaging videos to explain processes for each role.
- [Federally Qualified Health Center's Remote Patient Monitoring Tool Kit](#): This document is designed to help FQHCs determine which RPM processes will work best for their individual setting. It provides guidance on key areas for consideration when preparing for implementation.
- [NACHC Value Transformation Framework: Community Health Center Requirements for Remote Physiologic Monitoring \(RPM\) & Self-Measured Blood Pressure \(SMBP\)](#): This guide outlines important requirements and coding information for use of RPM in Community Health Center settings.

The Healthy Heart Ambassador Blood Pressure Self-Monitoring Program



Help your patients improve their hypertension with an evidence-based program that empowers them to manage their blood pressure (BP) while learning ways to eat healthier and be more physically active.

This **NO-COST program** from the Delaware Division of Public Health (DPH) provides specially trained health coaches to teach simple yet proven ways for patients to better manage and understand their BP, increase physical activity, adopt healthier eating habits, and more.

Participants who enroll in the Healthy Heart Ambassador Blood Pressure Self-Monitoring Program (HHA-BPSM) Program receive:

- A BP monitor (if needed) and training on how to measure and track BP at home
- Personalized virtual consultations from trained facilitators
- Virtual cooking classes and nutrition education
- Support to help people with hypertension make real changes for heart health

Learn More

Quality Insights invites you to explore more information and refer patients to the HHA-BPSM program by reviewing the links below:

- [For Providers](#): Learn about the HHA BPSM program, participant requirements, and program referral details.

On Demand Webinar: A Low-Pressure Approach to Controlling High Blood Pressure

Learn more about the HHA-BPSM Program and earn no-cost CNE/CME credit at the same time (1.0 contact hour).

[Get started by clicking here.](#)



- [For Patients](#): This flyer explains program features, participation requirements, and how to enroll.
- [For Patients Who Are Also Delaware State Employees](#): This flyer explains program features, participation requirements, and how to enroll.
- [HHA-BPSM Program Provider Enrollment Fax Form](#): Practices can complete this form to refer patients by fax. A phone number, 302-208-9097, is also included on the form as an additional method for referral.
- [HHA-BPSM Provider Referral “Script Pad”](#): This document can be given to patients to encourage them to learn more about the program and enroll.
- [Healthy Delaware’s HHA-BPSM Program](#): This website provides information on each class in the program, lists entrance qualifications, and shares testimonials. Patients may also [enroll online](#).

Get Involved: Become a HHA-BPSM Volunteer Program Facilitator



If you, or someone you know, has a desire to help people living with high blood pressure achieve better control through a supportive, evidence-based, holistic approach, Quality Insights and Delaware DPH are offering a great opportunity to get involved! Download this [HHA-BPSM Volunteer Program Facilitator flyer](#) to learn more about the program and related qualifications. Clinical background is not required. **Apply to become a Volunteer Program Facilitator by calling (302) 208-9097.**

Quality Insights’ Home Blood Pressure Monitor Program

Interested in implementing an SMBP program, but concerned about having adequate resources and assistance? Quality Insights offers a **FREE** Home BP Monitor Loaner Program and training.



Benefits include:

- Participating practices are supplied with up to five automated home BP monitors that can be loaned to patients to monitor their BP at home.
- Loaner monitors are ideal for patients that do not currently own a BP monitor or for those lacking the resources to immediately purchase a device. It may also be useful when a patient is newly diagnosed with hypertension or when a patient experiences a change in BP medication.
- Patients and providers are able to track and monitor the following: pre-hypertensive patients, patients with uncontrolled hypertension, patients on hypertensive drugs, and patients with recent or past histories of hypertensive crises.
- Your staff will receive training on educating patients for SMBP and the loaner program.

Some program materials include the [Home Blood Pressure Monitor Loaner Program Procedure](#), [Instructions for Practices](#), [Instructions for Patients](#), [Blood Pressure Monitor Loaner Log](#), and [Patient Agreement template](#).

If your practice is interested in participating in the program, e-mail [Ashley Biscardi](#) or call **1.800.642.8686, ext. 137**. A [recorded overview](#) describing this program is also available.

Health Coaching Services

A [2020 study](#) reported “patient engagement and 4P medicine, defined as predictive, preventive, personalized, and participatory, is an increasingly important component of strategies to prevent and reverse chronic disease.” According to [Lee \(2017\)](#), through improved patient activation and engagement, health coaching has been shown to result in more positive health outcomes and lifestyle modifications. “‘[Patient activation](#)’ refers to a patient’s knowledge, skill, confidence, and motivation to manage his or her own health and care. ‘[Patient engagement](#)’ is a broader concept that combines patient activation with the behaviours individuals must master to benefit optimally from the health care services.”

Health coaches are proficient in “facilitating an evocative discussion to increase the client’s self-awareness regarding [health] issues” and providing peer-like education to assist the client with positively addressing failures, building new strengths, continuing positive behaviors, and making long-term, sustainable changes ([Jordan, 2021](#)).

Quality Insights offers no-cost health coaching for patients living with diabetes or hypertension. With health coaching, patients will receive assistance with addressing modifiable determinants such as medication adherence, lifestyle modifications, goal-setting, self-monitoring, shared decision-making, and social determinants of health (SDOH). Quality Insights will work with your practice to develop a health coaching workflow to best meet your practice and patient needs. Access Quality Insights’ [health coaching flyer](#) for more information. Contact [Ashley Biscardi](#) or your current Practice Transformation Specialist to start this service.



The flyer features a blue and green color scheme with icons representing various health topics. The text includes:

- Enroll Now DELAWARE PUBLIC HEALTH SERIES**
- Education - Now and When You Want It**
- EDSCO by Quality Insights and the Delaware Division of Public Health (DDPH) have partnered to provide a series of interactive and engaging e-learning courses to practices, health systems, and federally qualified health systems in Delaware. The following courses are offered at NO COST:**
- 1. **Cancer Survivorship:** Deliver this important theme for primary care providers who are overseeing the care of cancer survivors.
- 2. **Colorectal Cancer (CRC) Screening:** Looking to engage your entire care team on the essentials of CRC screening and options for patients? Take this course for areas like screening techniques, CRC screening.
- 3. **Diabetes: Awareness to Action:** This course provides an in-depth overview of Diabetes, Self-Management Education and Support (SME), and the inclusion of diabetes prevention strategies.
- 4. **Health Literacy:** If your practice is striving to enhance literacy and reach all populations, this course is for you!
- 5. **Healthy Heart Ambulatory Blood Pressure Self-Monitoring:** Learn more about the new OHP (outpatient) ambulatory blood pressure program, including eligibility and how to refer to the program.
- 6. **HIV Medication:** Explore the components of HIV medication and assess current HIV vaccine recommendations. Includes topics such as HIV medications and more.
- 7. **Lung Cancer Screening:** Look at the factors, benefits of early screening and diagnosis, shared decision making, as well as new strategies to increase your lung cancer screening rates.
- 8. **Medication Therapy Management (MTM):** Improving medication adherence is an important way to increase quality and reduce cost. Learn how best practices with adherence to prevent and/or avoid health impact and improve adherence.
- 9. **Medication Management:** Our toolkits for how to reduce the risk of your health and encourage critical communication with patients.
- 10. **National HIV e-Learning Series:** Discover more about the National Diabetes Prevention Program (National DPP) Coverage Toolkit, which offers resources that support behavioral and medical interventions to reduce the risk of type 2 diabetes.
- 11. **National DPP e-Learning Series:** Discover more about the National DPP Coverage Toolkit, which offers resources that support behavioral and medical interventions to reduce the risk of type 2 diabetes.
- 12. **Tobacco Cessation:** Learn how to support your patients' efforts to quit tobacco and improve their chances for success.

SIGN UP TODAY! Visit [EDSCO@insights.com](#) to enroll your FREE program using the code **DEPH**.

Continuing Learning Assessment (CLA) and Continuing Medical Education (CME) Credits are available. Please check our CME/CPD page.



DE Public Health e-Learn Series from Quality Insights: Get Free CNE/CME

The Delaware Division of Public Health and Quality Insights have partnered to offer a series of e-learning courses to practices, health care systems, and federally qualified health systems in Delaware. Eleven courses, several of which are relevant to the care of patients with HTN, are offered on demand and at no cost. For additional information on each course and instructions for accessing them, visit the [Quality Insights website](#). Feel free to print the [e-learning course flyer](#) and post it for your staff.

The following courses are currently offered:

- Healthy Heart Ambassador Blood Pressure Self-Monitoring*
- Medication Therapy Management*
- Motivational Interviewing*
- Health Literacy*
- Tobacco Cessation*
- Diabetes: Awareness to Action*
- National Diabetes Prevention Program (National DPP) Coverage Toolkit Overview
- Colorectal Cancer Screening
- Lung Cancer Screening*
- HPV Vaccination*
- Cancer Survivorship

**Continuing Nursing Education (CNE) and Continuing Medical Education (CME) credits are offered with these courses at no cost.*

Reminder: Start Tracking Your Results

A Quality Insights Practice Transformation Specialist is poised to help your facility achieve its goal of improving blood pressure control. Once your practice achieves 80 percent control rates among its hypertensive patients, Quality Insights would be honored to assist you in applying for [Target: BP™](#) and [Millions Hearts® Hypertension Control Champion](#). Not only will the facility receive recognition from the host organization, but Quality Insights will promote the facility's achievements on our [website](#) as well.



Lastly, Quality Insights honors its partners for their work in successfully managing hypertension by awarding **Hypertension Hall of Fame** awards to practices in which at least 70 percent of their patients with hypertension have their BP in control (<140/90). All of the 2022 winners are listed on the [Quality Insights website](#).