

<u>Hypertension and Cardiovascular Disease:</u> <u>Improving Blood Pressure Control</u>

Heart, Disease, Stroke and Diabetes Prevention Program Community Based Prevention Section

PUBLIC HEALTH
ALWAYS WORKING FOR A SAFER AND
HEALTHIER COMMUNITY



Today's Presenters

Cheryl Farmer, MD - Manager

Cheryl.Farmer@doh.wa.gov | (360) 236-3770

Sara Eve Sarliker, MPH - Hypertension Lead

SaraEve.Sarliker@doh.wa.gov | (360) 236-3799

Heart Disease, Stroke, and Diabetes Prevention

Community-Based Prevention

Office of Healthy Communities

Prevention and Community Health

Washington State Department of Health



Special Note

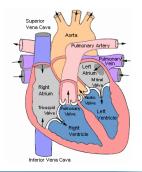
Information contained in this presentation is not medical advice. Every individual needs to consult with their primary health care provider regarding their medical conditions, blood pressure, medications and any other medical concerns.



Objectives	
Learn about the connections between cardiovascular health and chronic disease	
Understand why blood pressure control is important	
Learn what the blood pressure numbers mean	
Learn how to check blood pressure accurately	
Learn how to support self-management as a Health Home Care Coordinator	
10 Health	
Words You Will Hear	
 Hypertension Also known as elevated or high blood pressure, is 	
a chronic condition. — If left uncontrolled, it can lead to damage of the	
heart, the brain and kidneys.	
W Health	
Words You Will Hear	
Cardiovascular disease (CVD)	
 Includes any disorders that affect the circulatory system. This includes coronary heart disease, 	
congestive heart failure and stroke. • Heart disease	
 Includes any condition that impairs the structure 	
or function of the heart (i.e., atherosclerotic and hypertensive diseases, congenital heart disease,	
rheumatic heart disease and cardiomyopathies).	
M Health	

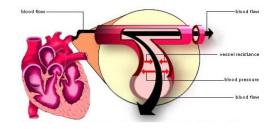
Words You Will Hear	
Myocardial Infarction (MI) Commonly known as heart attack Most heart attacks happen when a clot in the coronary artery blocks the supply of blood and oxygen to the heart. Stroke Also called cerebrovascular disease or a brain attack, is the interruption of blood supply to the brain. Can lead to some level of cognitive or physical disability if not fatal.	
M Health	
Other Words You May Hear Peripheral Vascular Disease (PVD) Narrowing of the blood vessels outside of the heart, causing arteries to narrow or become blocked. Can reduce or stop blood flow, usually to the legs. If severe enough, blocked blood flow can cause tissue death and may lead to amputation of the foot or leg. Chronic Kidney Disease (CKD) Means kidneys are damaged and can't filter blood as they should. Diabetes and high blood pressure are the most common causes of CKD. Also, chronic kidney disease can cause high blood pressure.	
Other Words You May Hear	
 Angina Pectoris Angina is chest pain or discomfort you feel when there is not enough blood flow to your heart muscle. Arrhythmias An arrhythmia is a problem with the rate or rhythm of your heartbeat. It means that your heart beats too quickly, too slowly or with an irregular pattern. The most common type of arrhythmia is atrial fibrillation, which causes an irregular and fast heart beat. 	

How The Heart Works



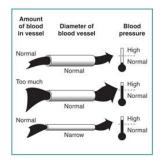


What Is Blood Pressure?





What Is Blood Pressure?





Blood Pressure Levels For Adults

Blood Pressure Category	Systolic mm Hg (upper #)		Diastolic mm Hg (lower#
Normal	less than 120	and	less than 80
Prehypertension	120 – 139	or	80 – 89
High Blood Pressure (Hypertension) Stage 1	140 – 159	or	90 – 99
High Blood Pressure (Hypertension) Stage 2	160 or higher	or	100 or higher
Hypertensive Crisis (Emergency care needed)	Higher than 180		Higher than 110

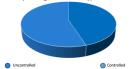
W Health

Facts About High Blood Pressure

- 1 in 3 adults (about 70 million people) in the US has high blood pressure (HBP)
- Less than one-half of those with HBP have it controlled
- People with HBP may not be know, because they do not feel bad or have any symptoms
- It can lead to many chronic diseases (i.e., heart disease, stroke, chronic kidney disease)

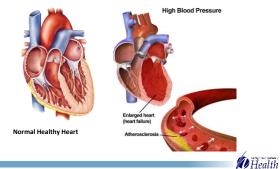


Hypertension: A Major Risk Factor





What Does High Blood Pressure Do to Our Bodies?



Risk Factors for Heart Disease and Stroke

- · Non-modifiable
 - Age
 - Family-History or Genetics
- Modifiable
 - Hypertension
 - High Blood Cholesterol
 - Diabetes
 - Difficulty Managing Healthy Weight
 - Smoking
 - Physical Inactivity
 - Poor Nutrition



Who Is At Higher Risk?

- People with a family history of high blood pressure
- African Americans, Native Americans, and Alaskan Natives
- People 35 years or older
- People who are not at a healthy weight
- People who use tobacco
- People who eat foods with too much salt
- People who do not eat enough fruits and vegetables
- People who drink too much alcohol
- Women who use birth control pills
- People who do not exercise
- Pregnant women



2014 Washington State 10 Leading Causes of Death

 Heart Disease and Stroke combined are the #1 cause of death in Washington State





Signs of a Heart Attack

- Chest Pressure or Tightness
- Pain in the Chest, Neck, Back, Arms, or Jaw
- · Palpitations, fluttering in the chest, abnormal heartbeat
- Anxiety
- Fatigue
- Shortness of Breath
- Lightheadedness
- Sweating (cold sweats)
- Nausea, vomiting, indigestion or gas-like pain



Signs & Symptoms of a Stroke

- Sudden numbness of arm, face, or leg
- Sudden confusion, trouble speaking or understanding
- · Sudden trouble seeing
- · Sudden trouble walking
- Severe headache



F.A.S.T.

- If you THINK the person is having a STROKE: CALL 9-1-1
 IMMEDIATELY!
- F.A.S.T. is an easy way to remember the sudden signs of stroke.
 When you can spot the signs, you'll know that you need to call 9-1-1 for help right away.
- F.A.S.T. is:
 - F. Face Drooping Does one side of the face droop or is it numb? Ask the person to smile. Is the person's smile uneven?
 - —A Arm Weakness Is one arm weak or numb? Ask the person to raise both arms. Does one arm drift downward?
 - -S -Speech Difficulty Is speech slurred or hard to understand? Ask the person to repeat a simple sentence, like "The sky is blue." Is the sentence repeated correctly?
 - —T. Time to call 9-1-1 If you see any of these signs, even if the symptoms go away, call 9-1-1. Check the time so you'll know when the first symptoms appeared.



Treatment for High Blood Pressure

Modification	Recommendation	Approximate SBP Reduction (Range)
Reduce weight	Maintain normal body weight (body mass index 18.5–24.9 kg/m2)	5–20 mm Hg/ 10 kg
Adopt DASH eating plan	(dietary approaches to stop hypertension) Consume a diet rich in fruits, vegetables, and low-fat dairy products with a reduced content of saturated and total fat	8–14 mm Hg
Lower sodium intake	Consume no more than 2,400 mg of sodium/day; Further reduction of sodium intake to 1,500 mg/day is desirable, since it is associated with even greater reduction in BP; Reduce sodium intake by at least 1,000 mg/day since that will lower BP, even if the desired daily sodium intake not achieved	2–8 mm Hg
Physical activity	Engage in regular aerobic physical activity such as brisk walking (at least 30 min per day, most days of the week)	4–9 mm Hg
Moderation of alcohol consumption	Limit consumption to no more than 2 drinks per day in most men, and to no more than 1 drink per day in women and lighter weight persons	2–4 mm Hg



Common Medications

- Diuretics (Thiazide)
 - "Water pills," which help the kidneys flush extra water and salt from your body and decrease blood volume
- Angiotensin converting enzyme (ACE) inhibitors and Angiotensin II receptor blockers (ARBs)

Reduce blood pressure by relaxing blood vessels

Beta blockers

Cause the heart to beat with less force



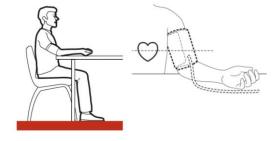
Common Medications cont.	
 Calcium channel blockers (CCBs) and other direct dilators (relaxers) of blood vessels Drugs that directly relax the blood vessels. Alpha blockers Reduce nerve impulses that tighten blood vessels Nervous system inhibitors Control nerve impulses from the brain to relax blood vessels 	
M Health	
When Might A Specialist Be Needed? When primary care unable to control hypertension after following standard protocols Usually nephrologists, internists Cardiologists only involved when heart disease is present	
Health	
Before Measuring Blood Pressure	
 Do not drink coffee for at least 30 minutes before measuring. Do not use tobacco products for at least 30 minutes before measuring. Do not exercise or eat a large meal two hours before measuring. Use the rest room. A full bladder can affect the reading. 	
W Health	

Seating Posture and Proper Cuff Placement

- Sit quietly in a chair for 5 minutes before measuring
- Keep your back supported and feet flat on the ground. Do not cross legs.
- Remove clothing from your upper arm.
- The bottom of the fitted and correctly positioned blood pressure cuff should be about a half inch above your elbow. Arrow over the brachial artery



Seating Posture and Proper Cuff Placement





Taking Your Blood Pressure (automated)

- Support your arm at the level of your heart on a table or high armrest.
- Stay in a seated position and avoid talking when taking a measurement.
- Press the **START** button to start the monitor.
- The cuff will inflate and feel tight for a few seconds, then it will relax and display the reading.
- RECORD THE READING
- Press the **STOP** button to clear the display.

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Provider office		Results for "Blood Pressure Screening"
Fire stations	by Distance Show Results within 25 miles V of 29 code 56506 Show	1 - 20 of 77 Results Results por page [20 mouts V] Charge Sare Checked Resources
	by Service Features	Save Checked Resources Adams County Integrated Health Care Ser
Drug stores/	Click on a group to narrow your results. View All Results (77)	Adult Health Information and Services Provides services for adults age 20 years and over. Activities include blood pressure screenings, influence immunications, pregnancy/SDV-HH/MDD sering, and provides
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	Other Groups: Feature > Change	American Red Cross - Snohomish County Medical - Screenina Blaced Pressure Provides blood pressure screening at various sites througho
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• American Heart Association

Heart360.orgHealthy CirclesHealthycircles.com

Blood Pressure Measurement	
American Heart Association reports that blood pressure measurements are one of the most	
inaccurately performed measurement in health	
care.	
Measuring blood pressure (BP) correctly is the	
most effective tool in helping a person self- manage their blood pressure	
Health	
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The Benefit of Care Coordination on	
Blood Pressure Measurement	
Health Home Care Coordinators can help clients	
by	
 providing coaching and education encouraging clients to include blood pressure 	
measurement in the Health Action Plan	
Health Home Care Allied Staff can help by	
reminding and encouraging clients to use their home BP Monitor	
W Health	
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Individual and Family Support:	
one of the core HH services	
Health Home (HH) Care Coordinators can:	
 Provide health promotion and education Locate resources 	
 Chronic Disease Self-Management Program Places to check blood pressure 	
 Physical activity supports Healthy eating supports 	
 Mental health supports Support the client to remember appointments and 	
schedule transportation — Assist the client in setting up a system to take medications	
as prescribed — Encourage blood pressure self-measurement	
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Starting	g the	Conve	rsatior
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Consider using this assessment to begin brainstorming about potential short-term goals

POTENT EDUCATION RESEARCH CENTER			
Self-Efficacy for Managin	g Chronic Disease 6-Item Scale		
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Suggestions for Short Term Goals

- Follow up with primary care provider
- · Learn how to accurately measure blood pressure
 - Action step: Care Coordinator will provide a paper tracker for client to record BP
 - Action step: Care Coordinator will help client locate an application for their computer or phone to track BP (Heart360.org, Healthycircles.com)
- Ask pharmacist or doctor what my medications are and what they do



Suggestions for Short Term Goals

- Caregiver will accompany client to medical appointments
- Client will attend a Chronic Disease Self-Management course
- · Client will reduce sodium in their diet
- Client will work towards 30 minutes/day of moderate activity
- Client will begin to check for sodium, fat and saturated fat on food labels



Resources

Health Home Care Coordinators Toolkit:

https://www.dshs.wa.gov/altsa/home-and-community-services/ care-coordinator-toolkit





Resources cont.

American Heart Association:

http://www.heart.org/HEARTORG/HealthyLiving/HealthyEating/Nutrition/The-American-Heart-Associations-Diet-and-Lifestyle-Recommendations_UCM_305855_Article.jsp#.Vx_SQX_2bIU





Resources cont.

HERE: Health Education Resource Exchange:

http://here.doh.wa.gov/



Resources cont.

Living Well with Chronic Conditions:

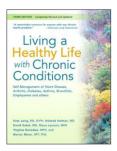
http://livingwell.doh.wa.gov/programs/workshops

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tone from Andonesia or Service	Correct information Click here for a list of contacts who will accept workshop questions, sorted by county.	
Find a Weekshop Get Trained	If you do not use a workshop listed for the county you're interested in, click here to use a list of people to subsphese or want. The list is averaged by county.	Management () Stateme Self Management
Programs Resources	Workshops: Welcome to the Union Mel unders, and there are for sining our abs. Me exercise you to shock host to this ship beganing as underloan and minings are pasted for 1005.	() Enteror ribrati / Enteror revinati () Uningrand (((((min)))) () Matter of Balance
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Resources cont.

Living a Healthy Life with Chronic Conditions by Lorig, Sobel, Gonzalez, and Minor





Resources cont.

How to Check Your Blood Pressure brochure





Resources cont. BLOOD PRESSURE TRACKER - PRINTABLE TRACKER M Health **Recommended Videos for Your Client and You** • Unnatural Causes Video clip. https://www.youtube.com/watch?v=bXBkOYMCAro • Blood Pressure Demo "MILLION HEARTS INITIATIVE" by the UCD School of Pharmacy. https://www.youtube.com/watch?v=Blqei6_s6J0

Questions:

Printables Blood Pressure Tracker



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M Health

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- American Family Physician; Practice Guidelines New AHA Recommendations for Blood Pressure Measurement; Vol 72, Number 7, Oct. 2005
- JNC-7 Express:
- www.nhlb.nih.gov/guidelines/hypertension/express.pdf
 Pickering TJ et. al. Recommendation for Blood Pressure Measurement in
 Humans and Experimental Animals. Part 1. Blood Pressure Measurement in
 Humans. A Statement for Professionals from the Subcommittee of
 Professional and Public Education of the American Heart Association Council
 on High Blood Pressure Research. Circulation 2005;111:697-716.

- on High Blood Pressure Research. Circulation 2005;111:697-716.
 Million Hearts website
 (http://millionhearts.hhs.gov/resources/toolkits.html#bpToolkit)
 American Heart Association website (http://www.heart.org/HEARTORG/)
 Washington State Department of Health. How to Check Your Blood Pressure.
 Available at: http://here.doh.wa.gov



Please Take Our Survey



https://www.surveymonkey.com/r/9N6VJ2P

We welcome your feedback and suggestions!



Join Us Next Month



- Thursday, June 9, 2016
- 9:00 AM 10:30 AM
- Topic: Long Term Services and Supports: Part 2-**Discharge Resources**
- Make your reservation now at:

https://attendee.gotowebinar.com/register/605190261531158273



Healt Washin	h Home Program gton					
	Certificate of Co	mpletion				
	Hypertension and Cardiovas	-		•		
	presented by Cheryl Farmer and Sara I Washington State Department of Lacey, Washington					
Webinar aired on: June 9, 2016 in Lacey, Washington for Health Home Care Coordinators and Allied Staff						
Training Credit of 1.5 Hours						
	Please sign and date to attest that you attend	ded this webinar				
	Your Signature	Date				
	Supervisor's Signature	Date				
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2. As a r	ou work with clients with unco esult of this webinar do you fo ssing the importance of freque	eel more comforta	ible			

 $pressure\ measurement\ ?$

manage their chronic heart disease?

3. Has your client included any short term goals and action steps related to their heart disease or blood pressure? Do you think you might suggest this when the client revises their HAP?

4. Do you know of any educational resources in your community that can help your clients better control their blood pressure and