# The Role of Food and Your Health: Blood Pressure



These slides were created by the Kentucky Inclusive Health Collaborative at the University of Kentucky Human Development Institute in collaboration with Aramark and the American Heart Association as part of the Healthy for Life® Initiative.





# Agenda

- Introduction
- Blood Pressure
- Health Care Discussion
- Goal Setting





# **Learning Objectives**

- Meet with a health professional to obtain a personal blood pressure reading.
- Understand how food affects your blood pressure.
- Describe what causes high blood pressure.
- Identify at least two strategies for controlling blood pressure.

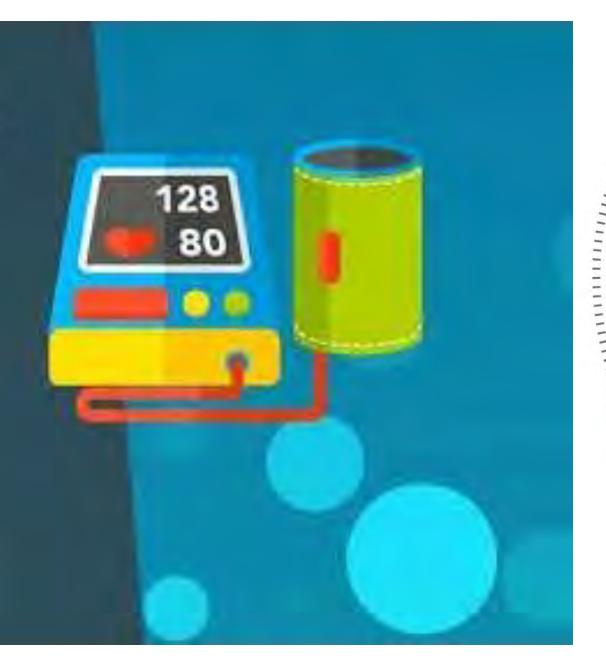


# Ice Breaker

# BLOOD PRESSURE MONITOR

 SYSTOLIC UPPER NUMBER

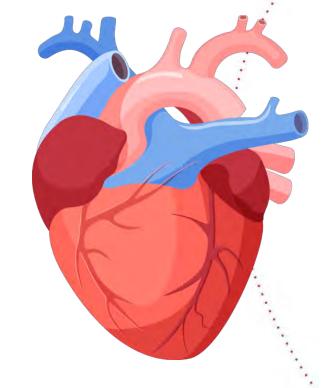
 DIASTOLIC LOWER NUMBER



# **Blood Pressure**

# How does blood pressure work?

- Heart pumps blood through blood vessels
- Blood pushes against vessel walls
  - This pushing is your blood pressure



# What is blood pressure?

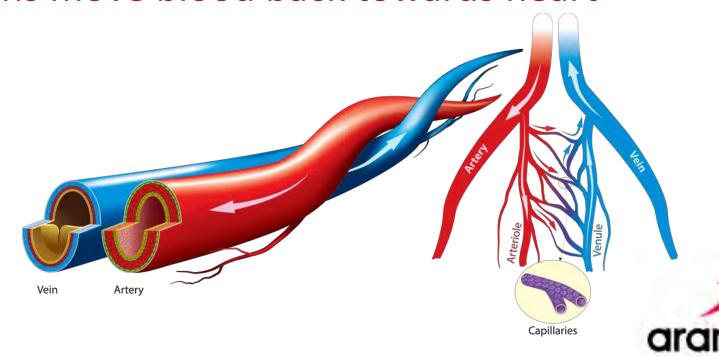
- Blood pressure moves blood throughout our bodies
- Provides organs and tissues needed oxygen



# **Blood Pressure**

# **Arteries vs Veins**

- Arteries move blood away from heart
  - Elastic and can stretch
- Veins move blood back towards heart





# **Blood Pressure Numbers**

Blood Pressure is measured by 2 numbers **Systolic** Pressure

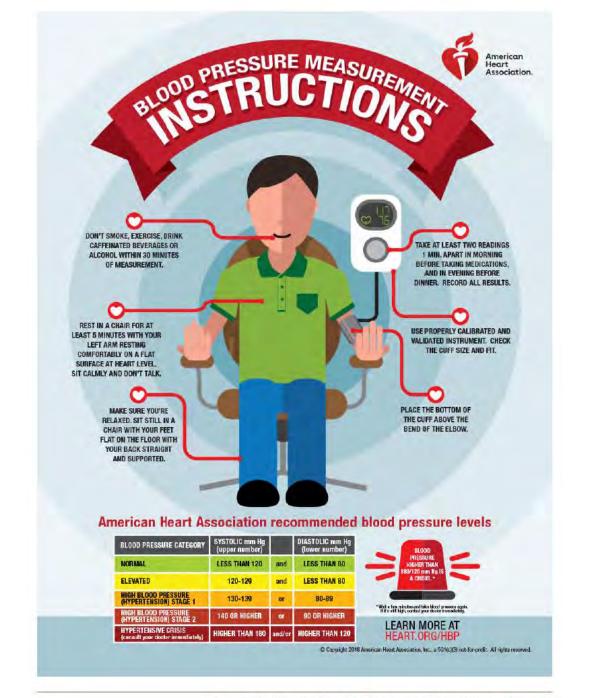
- Top number
- Measures pressure in arteries when blood is pumping

**Diastolic** Pressure

- Bottom number
- Measures pressure in arteries when heart is at rest







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

Two numbers are recorded when measuring your blood pressure. The top, or upper, number (called systolic pressure) measures the pressure in your arteries when your heart beats. The bottom, or lower, number (called diastolic pressure) measures the pressure while your heart rests between beats. Blood pressure is measured in millimeters of mercury (mm Hg).

The five blood pressure ranges as recognized by the American Heart Association are:

### Normal

Blood pressure numbers of less than 120/80 mm Hg are considered within the normal range. If your results fall in this category, stick with heart-healthy habits like following a balanced diet and getting regular exercise.

### Elevated

Elevated blood pressure readings consistently range from 120-129 systolic and less than 80 mm Hg diastolic. People with elevated blood pressure are likely to develop high blood pressure unless steps are taken to control the condition.

### Hypertension Stage 1

Blood pressure consistently ranges from 130-139 systolic or 80-89 mm Hg diastolic. Health care providers are likely to prescribe lifestyle changes and may consider adding blood pressure medication based on your risk of atherosclerotic cardiovascular disease (ASCVD), such as heart attack or stroke.

### Hypertension Stage 2

Blood pressure consistently ranges at 140 systolic or 90 mm Hg diastolic or higher. Health care providers are likely to prescribe blood pressure medications and lifestyle changes.

### **Hypertensive Crisis**

This stage requires medical attention. If your blood pressure readings suddenly exceed 180/120 mm Hg, wait five minutes and then test again. If your readings are still unusually high, contact your health care provider immediately.

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# **Blood Pressure Range**

BLOOD PRESSURE CATEGORY	SYSTOLIC mm Hg (upper number)		DIASTOLIC mm Hg (lower number)	
NORMAL	LESS THAN 120	and	LESS THAN 80	
ELEVATED	120-129	and	LESS THAN 80	<u></u>
HIGH BLOOD PRESSURE (HYPERTENSION) STAGE 1	130-139	or	80-89	
HIGH BLOOD PRESSURE (HYPERTENSION) STAGE 2	140 OR HIGHER	or	90 OR HIGHER	
HIGH BLOOD PRESSURE (HYPERTENSION) STAGE 3	HIGHER THAN 180	and/or	HIGHER THAN 120	

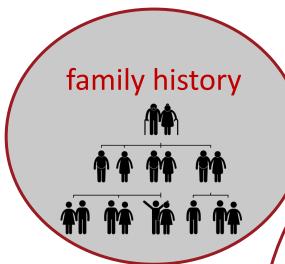
# **High Blood Pressure (Hypertension)**

- Doesn't always have a cause or symptoms
- "Silent killer"











# **Risk Factors**



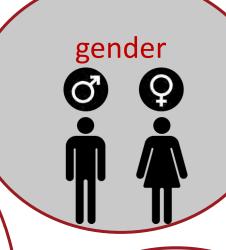


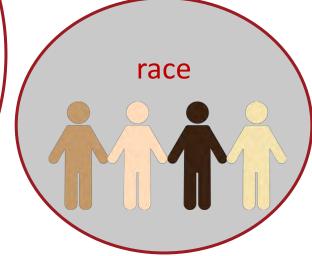
stress





drinking too much alcohol





### Key:

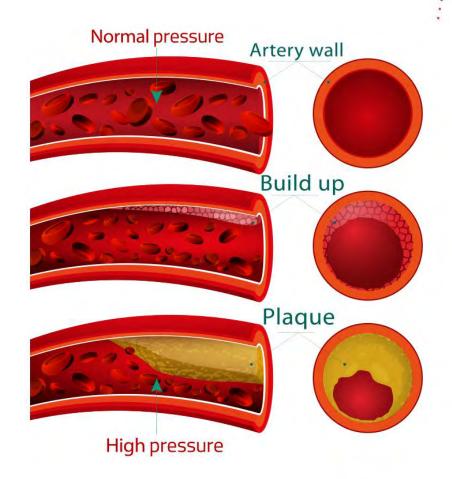


Oin our control



# What Happens?

- Makes our hearts work harder
- Damages inner lining of arteries
- May increase risk of heart disease





# **Healthy Blood Pressure: 2 Tips**

- 1. Heart **healthy diet** includes:
  - Fruits
  - Vegetables
  - Whole grains
  - Lean meat
- 2. Limit sodium







# Sodium

- Most comes from eating packaged and prepared foods
- Limiting sodium keeps blood pressure in check





# **Popular High Sodium Foods**

## Bread and rolls

Check nutrition labels for lowest sodium

### Pizza

Add veggie toppings

# Sandwiches

Eat half or add a side salad







# Popular High Sodium Foods

# Cold cuts and cured meats

Look for brands with lower sodium



# Soup

Check nutrition labels for lowest sodium

## **Burritos** and tacos

- Make your own taco seasoning:
  - Half a teaspoon of cumin, oregano, chili powder, garlic powder





# Health Care Discussion

Learn About Your Blood Pressure







### **HOW TO MANAGE BLOOD PRESSURE**

### **11** UNDERSTAND READINGS

The first step to managing blood pressure is to understand what the levels mean and what is considered normal, elevated, high blood pressure (hypertension) and hypertensive crisis. heart.org/BPlevels



Read as "117 over 76 millimeters of mercury."

117

### Systolic

The top number, the higher of the two numbers, measures the pressure, in the arteries when the heart beats (when the heart muscle contracts).

### Diastolic

The bottom number, the lower of the two numbers, measures the pressure in the arteries when the heart is resting between heart beats.

BLOOD PRESSURE SYSTOLIC mm Hg CATEGORY (top number)			DIASTOLIC mm Hg (bottom number)		
Normal	less than 120	and	less than 80		
Elevated Blood Pressure	120 to 129	and	less than 80		
High Blood Pressure (Hypertension) Stage 1	130 to 139	or	80 to 89		
High Blood Pressure (Hypertension) Stage 2	140 or higher	or	90 or higher		
Hypertensive Crisis Call your doctor immediately)	higher than 180	and/or	higher than 120		

### 2 TRACK LEVELS







Change.



Health care providers can take blood pressure readings and provide recommendations.

Check. Change. Control. helps you track your progress in reducing blood pressure.

Track online at ccctracker.com/AHA

### LEARN MORE AT HEART.ORG/MYLIFECHECK AND HEART.ORG/HBP

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### 3 TIPS FOR SUCCESS



### **EAT SMART**

Eat a healthy diet of vegetables, fruits, whole grains, beans, legumes, nuts, plant-based proteins, lean animal proteins and fish. Limit sodium, saturated fats and added sugars. Limit sugary foods and drinks, fatty or processed meats, salty foods, refined carbohydrates and highly processed foods. heart.org/EatSmart



### MOVE MORE

Physical activity helps control blood pressure, weight and stress levels, heart.org/MoveMore



### MANAGE WEIGHT

If you're overweight, even a slight weight loss can reduce high blood pressure. heart.org/Weight



### DON'T SMOKE

Every time you smoke, vape or use tobacco, the nicotine can cause a temporary increase in blood pressure, heart.org/Tobacco



### SLEEP WELL

Short sleep (less than 6 hours) and poor-quality sleep are associated with high blood pressure.



# Tomato Basil Soup







American Heart

Association .

# **SMART Goal Example**

# Goal:

I will check my blood pressure weekly.

# **SMART Goal:**

I will check my blood pressure every Wednesday morning.









# Questions?

# Thank You!





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