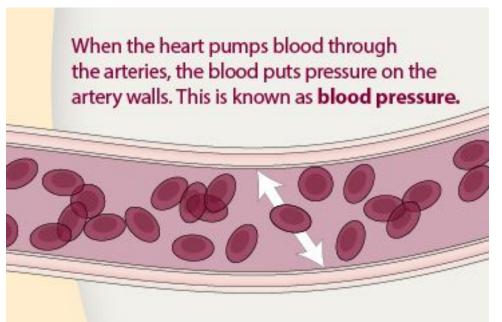
High Blood Pressure and Stroke

Aesculapians Honor Society at Wayne State University School of Medicine

Disclaimers

- We are a group of medical students at the Wayne State University School of Medicine.
- We cannot offer medical advice or recommendations in this session.
- The information in this presentation is intended to help you advocate for yourself with your doctors.

What is blood pressure and what does it mean if it's high?



What does high blood pressure mean?

High blood pressure, or **hypertension**, means the force of blood is higher than usual. Over time, if untreated, it can cause health conditions such as **heart disease** and **stroke**.

What causes high blood pressure?

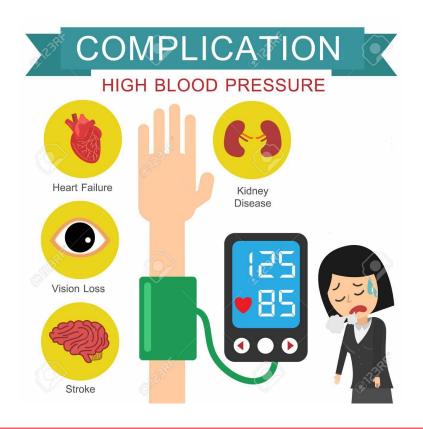


How can I know if I have high blood pressure?

- Get your blood pressure checked at the doctor's office, local pharmacy, or purchase a machine to test yourself!
- Look out for symptoms like headaches, dizziness, or pounding in your chest.

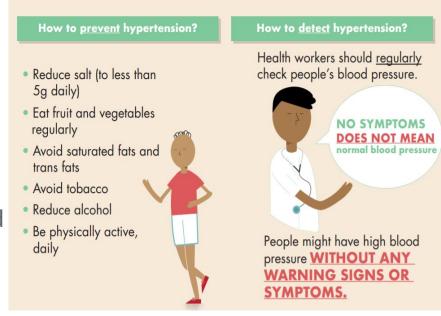


What are complications of a high blood pressure?



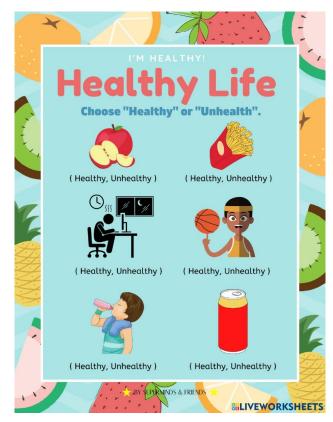
How can I prevent high blood pressure?

- Eating too much salt can lead to high blood pressure so try to eat less!
 - Limit salty snacks like potato chips, pretzels,
 Goldfish, fries
- Fat in foods at fast food restaurants can also raise your blood pressure
 - Eat healthy foods at instead like fruit and veggies!
- Daily movement is key to reducing blood pressure
 - Playing with friends and siblings, find your favorite active hobby or sport, after-school sports



What should I do if I have high blood pressure?

- 1. Make a list of foods to only have once per day or in moderation
- 2. Pick your favorite healthy treats that you can often have as snacks
- 3. Plan out time to get in 60 minutes of exercise daily
 - a. Can be 30 minutes right after school and then 30 minutes after dinner
- Discuss these changes with your pediatrician and get your blood pressure regularly checked to see if things are improving



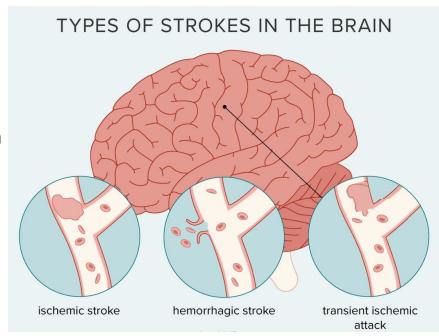
What is a stroke?

A stroke is a prolonged block of **oxygen and nutrients** to the brain. It happens when the vessels bringing blood to the brain are either **blocked** or begin to **leak**. There are 3 types of strokes.

Ischemic strokes: a blood vessel supplying the brain is completely blocked

 Hemorrhagic strokes: a blood vessel supplying the brain ruptures and leaks

 Transient ischemic attacks (TIA or "mini stroke"): a blood vessel supplying the brain is temporarily blocked causing stroke-like symptoms



What are the signs of a stroke?

Here are some important warning signs of a stroke that anyone can detect.

F: facial droop... ask the person to smile. Is their smile uneven?

A: arm weakness... ask the person to lift their arms. Do both arms lift up all the way?

S: speech difficulty... is their speech slurred? Can they understand what you're saying?

T: Time to call 911 for help!



droops







What are the causes of a stroke?

Secondary causes Main causes **Smoking Alcoholism Drug abuse High blood** pressure Cholesterol **Meat comsuption Diabetes mellitus Atrial** fibrilation

What increases my risk for a stroke?



Being overweight / Obesity



Lack of exercise/ Movement



Heavy drinking



High blood pressure



Sleep apnoea



Drug use



Smoking



High cholesterol

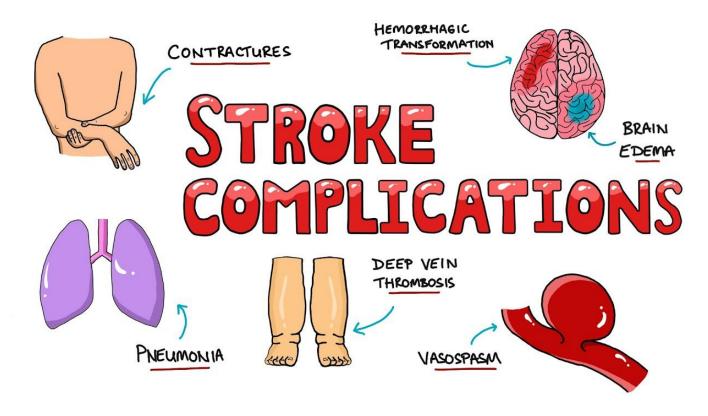


Cardiovascular disease



Diabetes

What are the complications of a stroke?



How can I prevent a stroke?





- 1. Lower blood pressure
 - a. Maintain blood pressure less than 120/80
- 2. Lose weight
 - a. Goal BMI of 25 or less
- 3. Exercise more
 - a. Exercise at a moderate intensity at least five days a week
- 4. Don't drink alcohol
- 5. Treat atrial fibrillation
- 6. Treat diabetes
 - a. Keep your blood sugar under control
- 7. Don't smoke

What should I do if I or someone I know has had a stroke?

- DO
 - o Call 911
 - Note the time
 - Loosen any tight clothing
 - Perform CPR (if necessary)







- Give the patient medications, foods, liquids
- Try to drive the patient to the hospital



Summary of high blood pressure and stroke

- High blood pressure, or hypertension, means the force of blood is higher than usual > heart disease and stroke.
- Many factors cause this such as stress, obesity, diabetes, diet, smoking, age, salt intake, and genetics
- Prevention of hypertension:
 - Monitor diet and Exercise
 - Follow up with your doctor
- Signs of a stroke
 - o DO
 - Call 911
 - Note the time
 - Loosen any tight clothing
 - DON'T
 - Give the patient medications, foods, liquids
 - Try to drive the patient to the hospital



FACE droops



ARM weakness





Questions?

Resources for more information



High blood pressure

- https://www.cdc.gov/bloodpressure/mater ials for patients.htm
 - Fact Sheets
 - Medication Guides

- https://www.heart.org/en/health-topics/high-blood-pressure/find-high-blood-pressure-tools--resources
 - Interactive guides
 - BP Trackers
 - Educational Brochure
 - Support Network

Stroke

- https://www.stroke.org/-/media/Stroke-Im ages/Infographics/PreventingAnotherStro ke2021-Guidelines.pdf
 - Stroke Prevention Guidelines
- https://strokesupportassoc.org/community
 -resources-for-survivors-of-stroke-2/
 - Stroke Support Association
- https://www.stroke.org/en/help-and-supp ort
 - Stroke Rehab Support

Activity on high blood pressure and stroke

Recognizing strokes <u>FAST!</u>