

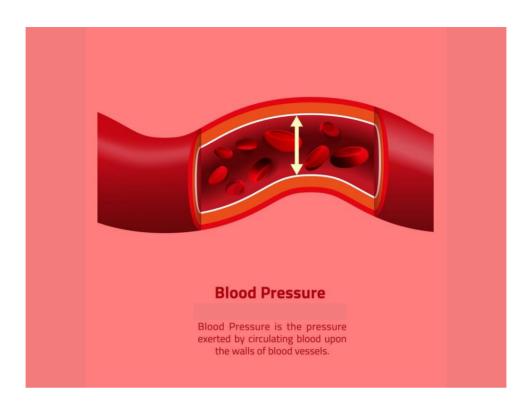
Learning Objectives

- Identify the symptoms and signs of high blood pressures
- Describe how hypertension can be measured in the body
- Encourage patients to control and manage their high blood pressure
- Understand the principal barriers face by patients in control their high blood pressure



Helping the community to control hypertension with the participation of community champions and the clinical team.

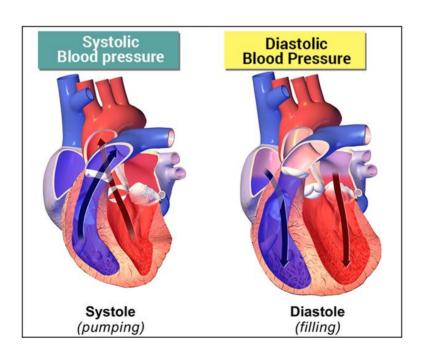


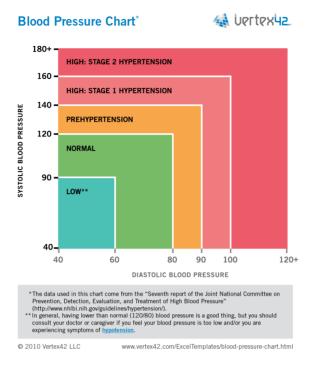


High blood pressure, called hypertension, happens when this force is too high.

Hypertension 1, 2

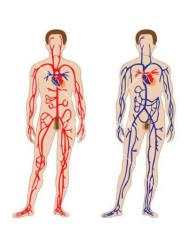
The classification of blood pressure is the **average of two** or more readings each **taken at two** or more visits after initial screening for adults aged 18 years or older.



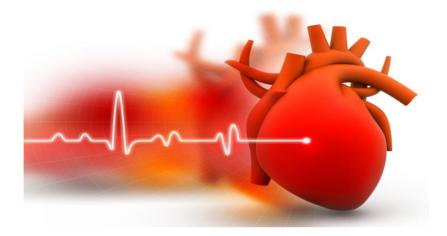


Arterial Pressure

The overall function of the cardiovascular system is to deliver blood to the tissues so that Oxygen and nutrients can be provided and waste products carried away. Blood flow to the tissues is driven by the differences in pressure between the arterial and venous sides of the circulation. Linda S. Constanzo Physiology 8th edition



Causes of Hypertension

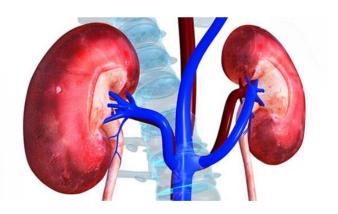


Genetic

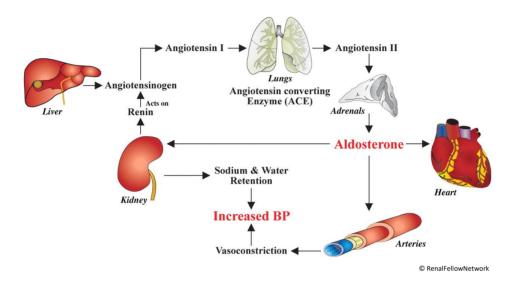
Defect in regulatory systems; defects in renal excretion of sodium. African American are significantly more likely to be hypertensive than are individuals of other races.

Lifestyle



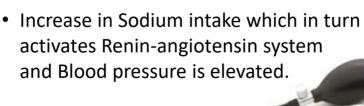


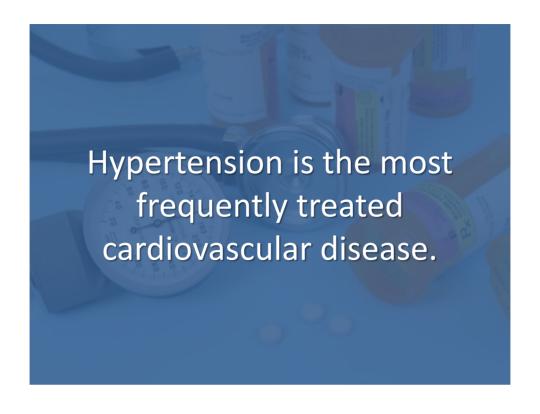
Secondary to kidney and other diseases. When blood vessels narrow in the kidneys, possibly causing kidney failure. Renin-angiotensin-aldosterone system (RAAS): this system regulates blood pressure slowly regulating blood volume. ³



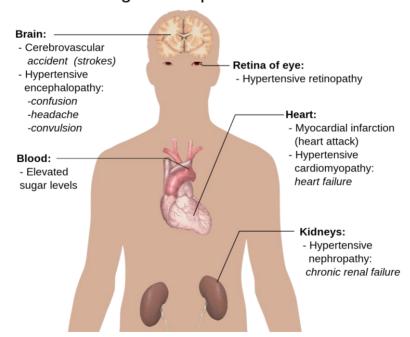
Chronic Hypertension

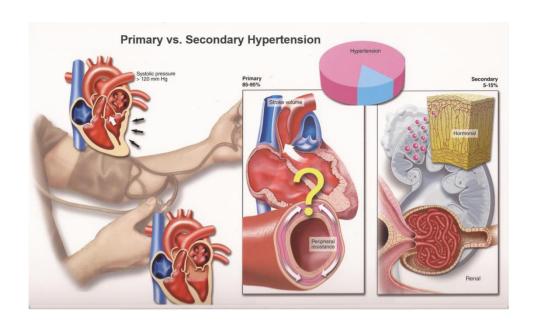
 Sensitivity of the baroreceptors can be altered by disease.





Main complications of persistent High blood pressure









Medical Treatment of Hypertension

- Diuretics (Water or Fluid Pills)
- Beta Blockers
- Angiotensin-Converting Enzyme (ACE) Inhibitors
- Angiotensin II Receptor Blockers (ARBs)
- Calcium Channel Blockers
- Alpha Blockers
- Alpha-Beta Blockers
- Central Acting Agents
- Vasodilators

Preventing high blood pressure involves lifelong lifestyle changes



Healthy Eating





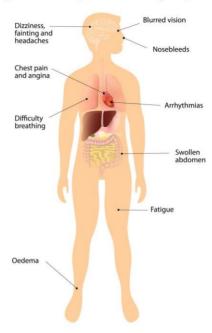
Maintaining a Healthy Weight





High blood pressure symptoms

Can also be ASYMPTOMATIC





Barriers

Systems dismissing hypertension

Lack of consistent medical follow-up

Provider failure to adjust drug regimens

Medication use

Cost

Patient belief systems dismissing hypertension as a significant medical problem

Lack of consistent medical follow-up

Provider failure to adjust drug regimens to achieve control

Medication side effects and dosing

Lack of economic resources to access healthcare or purchase medications

Lack of adherence with medication

Potential Solutions



- Education, conferences, publications
- Use medication with fewer side effects, add a sliding fee discount
- Use diuretics, generically available medication
- Promotion of pillboxes, combination, less frequent drugs
- Public education camping, community screening program, pharmacy, workbased program

As a Community Health Worker you are assigned to prepare a presentation to a group of parents in a small rural clinic regarding Heart disease and hypertension. How would you approach this topic? What elements should you include? What tools can you give your audience?

How to encourage patients to conduct appropriate screening ^{6,7}

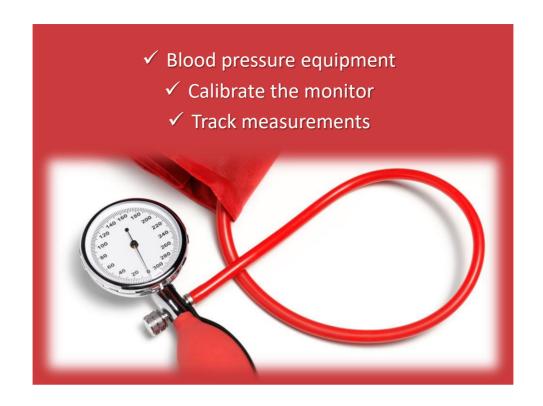
Screening patients 18 and older is beneficial



Ambulatory blood pressure monitoring as the best method to confirm a suspected hypertension diagnosis



http://www.glanmiremedicalcentre.com



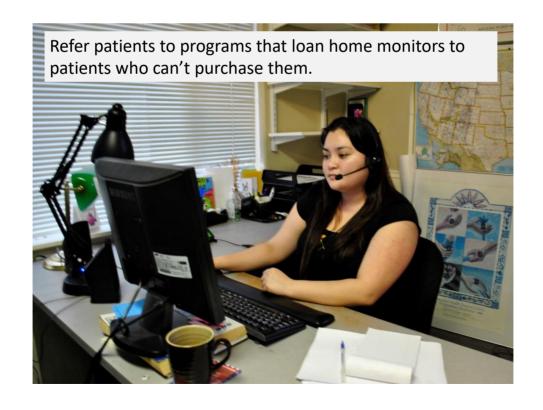
Referral of patients to appropriate programs ⁷

Support the development of a team approach for providing care for patients and delineating roles and responsibilities of each team member in the management of hypertension

Train and provide technology for population management – look at trends and improvements in the population of patients with hypertension









Questions?

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References

- 1. http://www.hrsa.gov/quality/toolbox/measures/hypertension/
- 2. https://www.nhlbi.nih.gov/health-pro/resources/heart/hispanic-health-manual/session-4#handouts
- 3. https://www.nhlbi.nih.gov/health/health-topics/topics/hbp
- 4. https://www.nhlbi.nih.gov/health/health-topics/topics/hbp/treatment
- 5. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1993926/table/tbl1/
- 6. http://www.aafp.org/news/health-of-the-public/20151015htnprevrec.html
- 7. https://www.healthit.gov/sites/default/files/13 bptoolkit e13l.pdf