

November 2017 ACC/AHA Hypertension Guidelines At-A-Glance

Wisconsin Nurses Association, April 2018

- Developed by the American College of Cardiology (ACC) and the American Heart Association (AHA)
- Updates the “Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation and Treatment of High Blood Pressure” (JNC 7), published in 2003
- New Categories of Blood Pressure in Adults
 - Blood pressures are based on ≥ 2 BP readings taken on ≥ 2 occasions
 - *Individuals with SBP and DBP in 2 categories should be assigned the higher BP category*

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

- **Diagnosing Hypertension**
 - The average of 2 or more blood pressures on 2 or more occasions should be obtained before determining a diagnosis
 - Out of office measurements should be used to confirm the diagnosis of hypertension (either 24 hour ambulatory blood pressure monitoring or self-measured blood pressure monitoring)
 - Can help identify patients with masked and white coat hypertension
- **Accurate Blood Pressure Management** – ACC/AHA state for diagnosis and management of high BP, proper methods are recommended for accurate measurement and documentation of BP
 - Use validated, automated upper arm device to measure BP
 - Use correct cuff size
 - Ensure patient has an empty bladder
 - Ensure patient is positioned correctly
 - If using automated office blood pressure (AOBP), perform ≥ 3 unattended measurements at 1-2 min intervals. No rest needed before the first measurement
 - If using attended measurement method, perform ≥ 2 measurements at 1-2 minute intervals. Patient should rest quietly for 5 minutes before the first measurement
- **Common Modifiable Cardiovascular (CVD) Risk Factors in Patient with HTN**
 - Current cigarette smoking, secondhand smoking
 - Diabetes mellitus
 - Dyslipidemia/hypercholesterolemia

- Overweight/obesity
- Physical inactivity/low fitness
- Unhealthy diet
- **Non-Pharmacological Treatment for Hypertension**
 - Weight loss
 - Healthy diet: dietary approaches to stop hypertension (DASH)
 - Reduced sodium intake (<1500 mg/day)
 - NEW: Enhanced intake of dietary potassium (goal 3,500-5,000 mg/day)
 - Not for use in patients with chronic kidney disease
 - Physical activity
 - Moderate alcohol intake (\leq 2 drinks daily for men and \leq 1 drink daily for women)
- **Blood Pressure Goal for Patients with Hypertension**
 - For adults with confirmed hypertension and known CVD or 10-year ASCVD event risk of 10% or higher a BP target of less than 130/80 mm Hg is recommended
 - For adults with confirmed hypertension, without additional markers of increased CVD risk, a BP target of less than 130/80 mm Hg may be reasonable
- **Self-Measured Blood Pressure (SMBP)**
 - New guidelines recommend out-of-office blood pressure measurements
 - Used to confirm diagnosis of hypertension
 - Assists in preventing misdiagnosis of white coat HTN
 - Used when titrating blood pressure lowering medications
 - Always provide instruction to patients on what to do if readings are outside desired range
 - Always perform SMBP in conjunction with telehealth counseling or clinical interventions
 - Go to Target:BP website for full set of tools and downloads: <https://targetbp.org/blood-pressure-improvement-program/patient-measured-bp/>
- **Pharmacological Approaches are varied**
 - Diuretics
 - Beta-blockers
 - ACE inhibitors & ARB (angiotensin receptor blockers)
 - Calcium channel blockers
 - Alpha blockers
 - Peripheral Adrenergic inhibitors
 - Vasodilators
 - Central agonists
- **Suggested Pharmacological Approaches Specific to Medical Conditions**
 - Coronary Artery Disease and Post MI: Beta blockers, ACE inhibitors
 - Heart Failure with preserved ejection fraction: ACE Inhibitor or ARB, Beta blockers, Diuretics
 - Heart Failure with reduced EF: ACE Inhibitor or ARB, Beta blockers, Aldosterone, Diuretics
 - Diabetes: ACE Inhibitor or ARB, Beta blockers, Calcium channel blockers
 - Kidney disease: ACE Inhibitors or ARB
 - Stroke or TIA: Diuretic, ACE Inhibitors