## HYPERTENSION POCKET GUIDE

- \* Recommend healthy lifestyle changes, including increased physical activity and a low-sodium diet, for all patients with hypertension and pre-hypertension.
- \* Prescribe thiazide diuretics as the initial drug of choice for most patients.
- \* Aim for target blood pressure of <140/90 for most hypertensive patients and <130/80 for those with diabetes or kidney disease.

## CLASSIFICATION OF BLOOD PRESSURE LEVELS FOR PEOPLE 18 AND OLDER\*

BP Classification	Systolic BP (mm Hg)	Diastolic BP (mm Hg)	
Normal	< 120 <b>AND</b>	< 80	
Pre-Hypertension**	120 – 139 <b>OR</b>	80 – 89	
Stage 1 Hypertension	140 – 159 <b>OR</b>	90 – 99	
Stage 2 Hypertension	≥ 160 <b>OR</b>	≥ 100	

<sup>\*</sup> Based on the average of 2 or more correctly measured, seated readings taken on each of 2 or more office visits

Adapted from: JNC-7 National Heart Lung and Blood Institute

## PERFORM LAB TESTS AND ROUTINE STUDIES

- Electrocardiogram
- Urinalvsis
- Blood alucose
- Hematocrit
- Serum potassium
- Serum creatinine (or GFR)
- Fasting lipid panel (TChol, HDL, LDL, TGL)

## PHYSICAL EXAMINATION

- Body Mass Index (BMI)
- Optic fundi

disease (non-acute)

- Auscultation for carotid, abdominal, and femoral bruits
- Thyroid glandHeart and lungs
- Abdomen for enlarged kidneys, masses, abnormal aortic pulsation

SELECTING FIRST-LINE ANTI-HYPERTENSIVE DRUGS

Lower extremities edema and pulses
Neurological assessment

SELECTING I INST-LINE ANTI-TITI ETTENSIVE DITOGS					
	Medication Options RED = Recommended first-line drug	Comments			
Most Patients	Thiazide diuretics Alone or combined with other drugs	If THIAZ contraindicated or not well-tolerated, try ACE-I, BB, ARB, or CCB.			
Patients WITH Compelling Indications					
Coronary disease (confirmed or suspected)	BB, ACE-I, CCB, THIAZ	If using a CCB, select a non-dihydropyridine. Consider aspirin and provide aggressive lipid management.			
Post-myocardial infarction	BB, ACE-I	Consider aspirin and provide aggressive lipid management.			
Heart failure – systolic (low output)	ACE-I or ARB, BB, ALDO, THIAZ	ACE-I, BB, and ALDO associated with improved survival in systolic heart failure.			
Heart failure – diastolic (abnormal left ventricular filling)	ACE-I or ARB, BB, THIAZ	ACE-I, ARB and BB improve ventricular diastolic relaxation and decrease stiffness. BB reduces heart rate to improve diastolic filling. Monitor response to THIAZ closely as patients may be pre-load dependent.			
Diabetes	ACE-I or ARB, THIAZ, BB, CCB	ACE-I and ARB have a reno-protective effect in addition to favorable blood pressure-lowering properties. Goal: < 130/80 mm Hg			
Kidney disease	ACE-I or ARB	ACE-I and ARB have a reno-protective effect in addition to favorable blood pressure-lowering properties. Goal: < 130/80 mm Hg			
Cerebrovascular	THIAZ, ACE-I	See AHA/ASA guidelines for evaluation of CVD risk			

in stroke patients.

<sup>\*\*</sup> New Category introduced in JNC-7 Report

LIFESTYLE MODIFICATIONS TO MANAGE HYPERTENSION AND PRE-HYPERTENSION*				
KEY MODIFICATIONS	RECOMMENDED ACTIONS	APPROXIMATE SYSTOLIC BP REDUCTION		
Physical activity	<ul> <li>Get at least 2 hours and 30 minutes a week of moderate activity (such as a brisk walk) performed in episodes of at least 10 minutes.</li> </ul>	4 – 9 mm Hg		
Healthy Diet	Eat plenty of fruits and vegetables, low-fat dairy products, whole grains, fish, lean poultry and nuts – a diet low in saturated, trans and total fat.	8 – 14 mm Hg		
	<ul> <li>Reduce sodium intake to no more than 100 mmol/day (about 2.4 g sodium or 6 g sodium chloride).</li> </ul>	2 – 8 mm Hg		
	Maintain adequate dietary potassium: more than 90 mmol (3,500 mg) a day.	2 – 4 mm Hg		
Weight Reduction	<ul> <li>Maintain a healthy weight; keep body mass index (BMI) &lt; 25 (for someone 5'10", &lt; 175 pounds; for someone 5'4", &lt; 146 pounds).</li> </ul>	5 – 20 mm Hg per 22 lbs weight loss		
Alcohol Consumption	Limit to no more than: 2 drinks/day for most men 1 drink/day for women and lighter weight persons (One drink = 12 oz beer, 5 oz wine, or 1.5 oz spirits)	2 – 4 mm Hg		

\*Consistent with DASH (Dietary Approaches to Stop Hypertension) eating plan



