


Hypertension Management

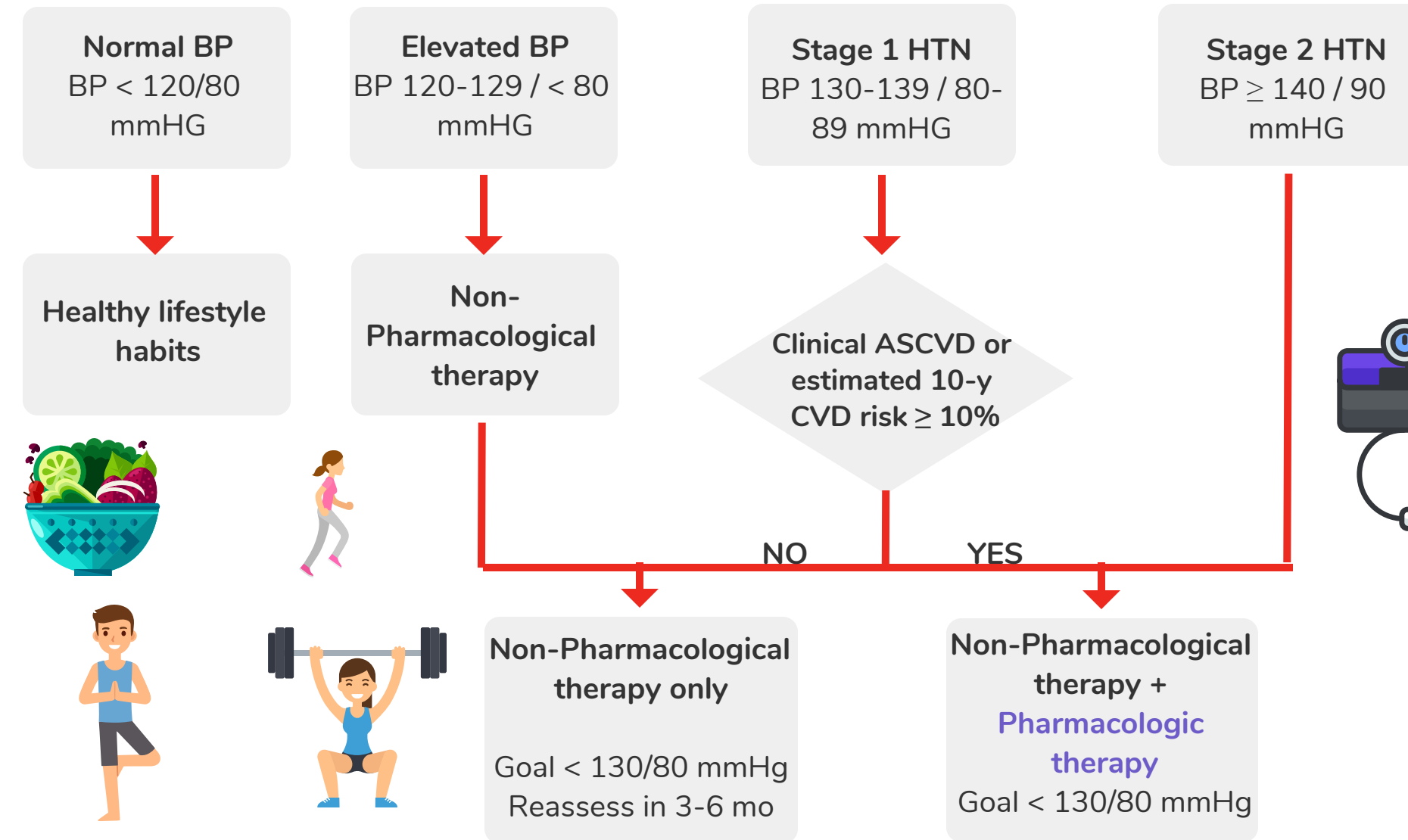


Created by Kyle Fischer, P4  (Kfischer_10)

 (KGFischeRx)

Reference: Hypertension. 2018;71(6):e13-e115.

Blood Pressure Treatment Algorithm



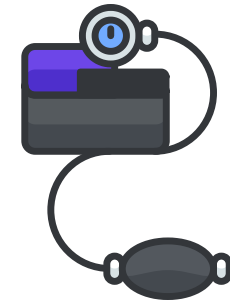
Causes of Hypertension

- Genetic Predisposition
- Environmental Risk Factors



Overweight and Obesity
Sodium Intake
Physical Fitness
Alcohol

Medications / Substances that may elevate BP

- Alcohol
- Amphetamines
- Antidepressants (eg, MAOIs, SNRIs, TCA)
- Atypical antipsychotics (eg, clozapine, olanzapine)
- Caffeine
- Recreational drugs (eg, "bath salts", cocaine)
- Systemic corticosteroids (eg, dexamethasone, fludrocortisone, prednisone, methylprednisolone)
- Decongestants (eg, phenylephrine, pseudoephedrine)
- Herbal supplements (eg, MA Huang [ephedra], St. John's wort [w/ MAOI, yohimbine])
- Immunosuppressants (eg, cyclosporine)
- Oral contraceptives
- NSAIDs
- Angiogenesis inhibitor (eg, bevacizumab)
- Tyrosine kinase inhibitors (eg, sunitinib, sorafenib)



First Line Antihypertensive Agents	
ACEi or ARB	Preferred in CKD or DM w/ albuminuria Monitor SCr. and K+
Calcium Channel Blocker	Preferred in black patients Monitor for edema & avoid Non-DHP CCBs in pts w/ HFrEF
Thiazide-Type Diuretic <i>Chlorthalidone or Indapamide preferred</i>	Preferred in black patients Monitor Na+, K+, Ca ²⁺ , and uric acid

Non-Pharmacological Intervention	SBP Reduction Approximation
Weight loss	1 mmHg per 1 kg
DASH diet	11 mmHg
Sodium reduction (<1500 mg/d) 	5 mmHg
Enhanced Potassium intake (aim for 3500-5000 mg/d)	4 mmHg
Physical activity (90-150 min/week)	7 mmHg
Alcohol reduction (men ≤ 2 drinks daily & women ≤ 1 drinks daily) 	4 mmHg