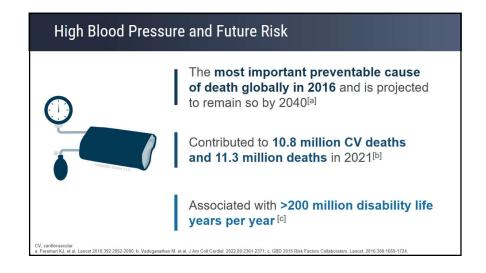
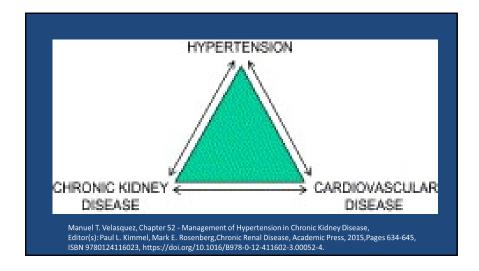
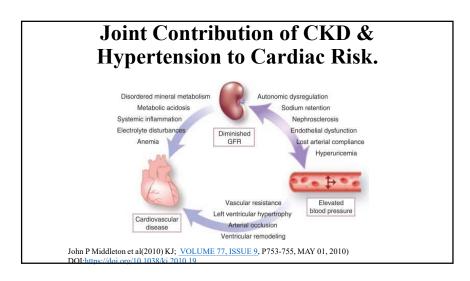


ARBs & ARBs in Single Pill Combination in Patients with CKD/ Dialysis

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Univ. of Medicine Pham Ngoc Thach
Nguyen Tri Phuong Hospital
President, Society of the Nephrology-Dialysis Therapies
Invited Professor, Liege Univ. of Medicine, Belgium







Kidney & Primary Hypertension

Sir Richard Bright (Guy's Hospital Rep 1836;1:380):

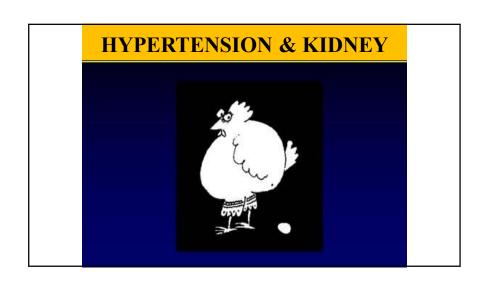
> "...renal dysfunction is the primary cause of hypertension"

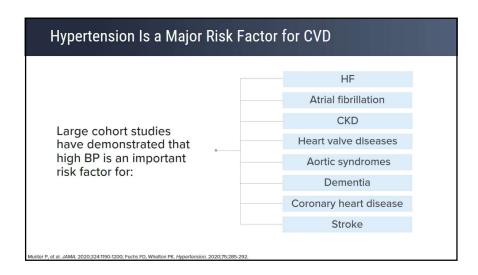


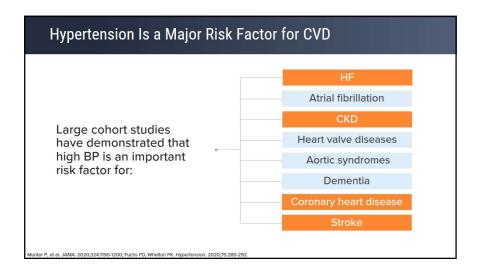
Kidney & Primary Hypertension

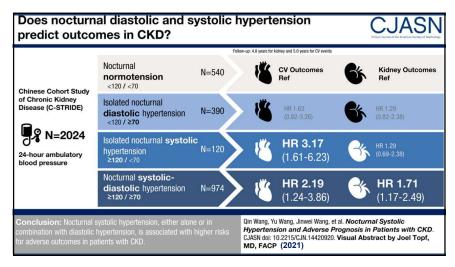
- Renal transplantation studies in rat strains suggest that hypertension "goes with the kidney". 1-3
- Patients who received kidneys from a hypertensive donor tended to have higher blood pressures compared to patients with transplants from normotensive donors.⁴
- Individuals who had dialysis dependent renal failure as a result of hypertension despite no primary renal disease became normotensive when they received well functioning allografts from a normotensive donor.⁵

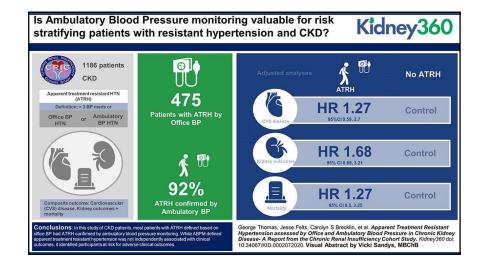
*Blanchi et al: Clin Scien Mol Med 1974; *Oahl et al:Circ Res 1974; *Rettig et al: Arn J Phys 1990; *Strandgaard et al: Brit Med J 1988; *Curtis et al: N Engl J Med 1983

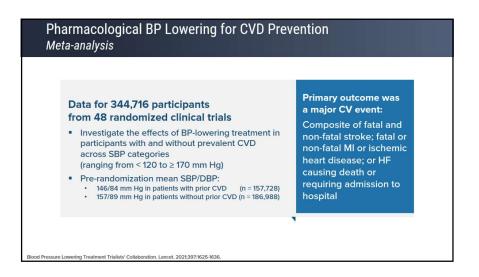


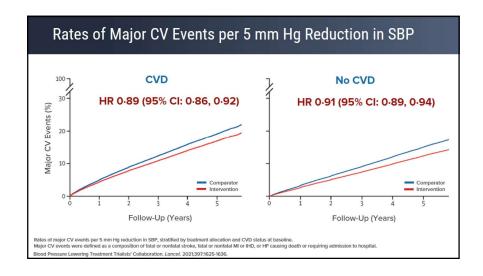


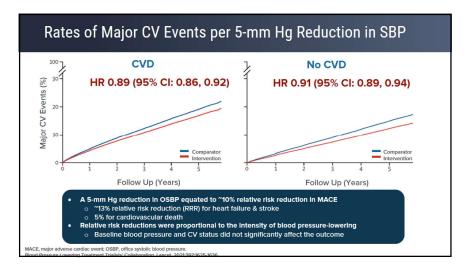




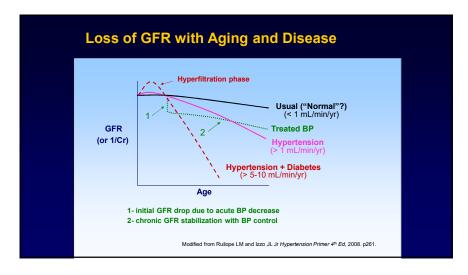


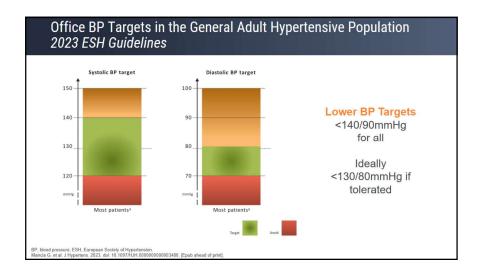














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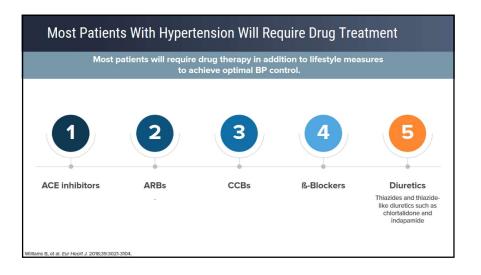
Best Practices in Hypertension-2017

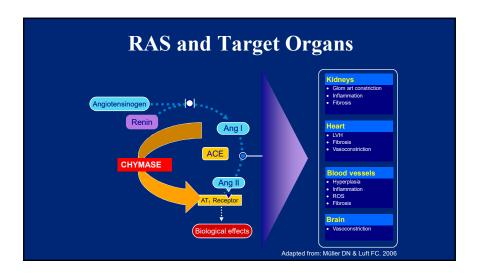
PC Manoria, Pankaj Manoria, Piyush Manoria, SK Parashar

Different organs behave differently to decrease in BP:

- **Brain**: dicta:" lower is better" lower the BP, less is the incidence of stroke(ACCORD BP & INVEST)
- **Heart**:dBP< 70 80→↑ AMI incidence → J-shaped curved.

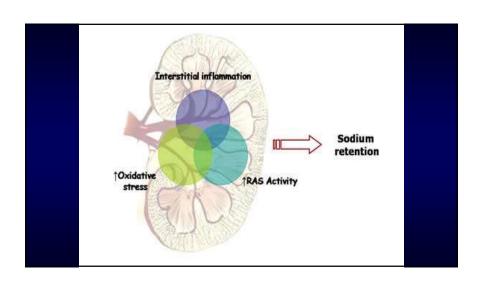
Kidney: intraglomerular pressure(IGP) matters > BP in renal arteries:↑ IGP → proteinuria → adversely affect kidneys + CV syst → in renal hypertension, **drugs** ↓ **IGP like** ACEI / ARBS / Cilnidipine preferred.





• Ang II and salt are synergistic in their deleterious effects of renal autoregulation.

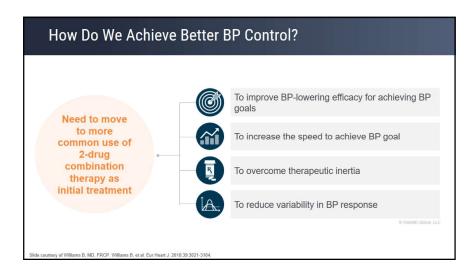
Saced A et al.. Am J Physiol Regul Integr Comp Physiol 2010. Inscho EW. Hypertension 2011 Anil K.et al. Curr Opin Nephrol Hypertens. 2013

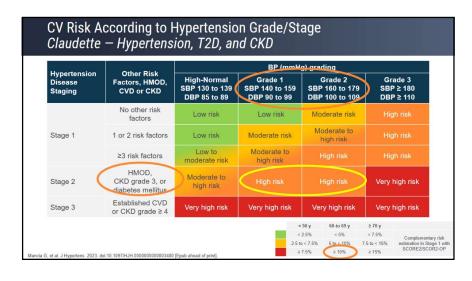


Recommendation 1.2.1. We recommend that treatment with ACEi or ARB be initiated in patients with diabetes, hypertension, and albuminuria, and that these medications should be titrated to the highest approved dose that is well tolerated (1B).

- Practice Point 1.2.1. Consider ACEi or ARB treatment in patients with diabetes and albuminuria, but have normal blood pressure.
- Practice Point 1.2.2. Monitor for changes in blood pressure, serum creatinine, and serum potassium within two to four weeks of initiation or increase in the dose of an ACEi or ARB.
- Practice Point 1.2.3. Continue ACEi or ARB therapy unless serum creatinine rises by more than 30% within four weeks following initiation of treatment or an increase in dose.

KDIGO Clinical Practice Guideline on Diabetes Management in Chronic Kidney Disease 2020





Treatment Strategies in Patients With CKD Blood Pressure Targets		
2023 ESH Guidelines for the Management of Arterial Hypertension		
	COR	LOE
BP should be monitored at all CKD stages HTN is the most important risk factor for ESKD	1	Α
Immediate lifestyle interventions and drug treatment if office BP ≥ 140/90 mm Hg	1	С
Primary goal < 140/90 mm Hg	1.	Α
If tolerated < 130/80 mm Hg	П	В
NOT < 120/70 mm Hg	III	С
OR, class of recommendation, ESKD, end-stage kidney disease, HTN, hypertension, LOE, level of evidence. ancia G, et al. J Hypertens. 2023. doi:10.1097/HJH.00000000003480 [Epub ahead of print]		



