Guideline for diagnosis and management of hypertension and hypertensive emergencies

DIAGNOSING HYPERTENSION

- Use either automated or manual BP device
- Follow standardised procedure for measuring BP
- Take the average of 2+ readings

Blood pressure ≥140/90 = Hypertension

Blood pressure ≥180/120 = Severe hypertension

Blood pressure ≥180/120 + NEW end-organ damage = Malignant hypertension

CAUSES OF SECONDARY HYPERTENSION		
Endocrine	 Cushing's syndrome Thyrotoxicosis Phaeochromocytoma Conn's Syndrome Acromegaly 	
Vascular	Renal Artery StenosisCoarctation of aortaAortic dissection	
Others	Drugs e.g. steroids, contraceptives, cocaine, calcineurin inhibitors Obstructive sleep apnoea Pre-eclampsia	

IDENTIFYING EN	ND-ORGAN DAMAG	E
Target organ	Investigations	Findings
Eyes	Fundoscopy	Signs of hypertensive retinopathy e.g.
		haemorrhage, cotton wool spots, papilloedema
Kidneys	Urinalysis	Proteinuria
		Haematuria
	Blood test	Evidence of CKD (AKI if malignant HTN)
Heart	ECG	LV hypertrophy

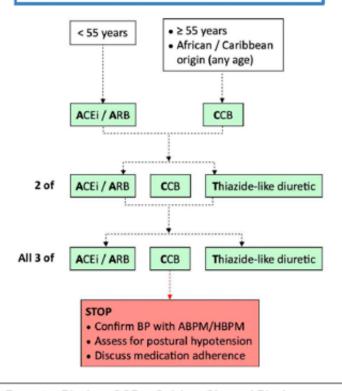
MANAGEMENT OF HYPERTENSION Chronic

- Education and lifestyle
 measures Reducing salt
 intake, weight loss and
 exercise are proven to reduce
 blood pressure.
- Drugs see image on right.
 Consider lifestyle measures first line unless severe hypertension/end-organ damage present

Malignant hypertension

- 1. ABCDE assessment
- Commence IV treatment e.g. labetalol infusion 20mg/hr and uptitrate as necessary
- Investigate and address
 cause e.g. history of drug use,
 pregnancy test, TFTs
- Establish oral therapy before stopping IV treatment
- 5. Monitor end-organ damage

FLOW CHART FOR PHARMACOLOGICAL MANAGEMENT OF CHRONIC HYPERTENSION



ACE-I = ACE Inhibitor. ARB = Angiotensin Receptor Blocker. CCB = Calcium Channel Blocker