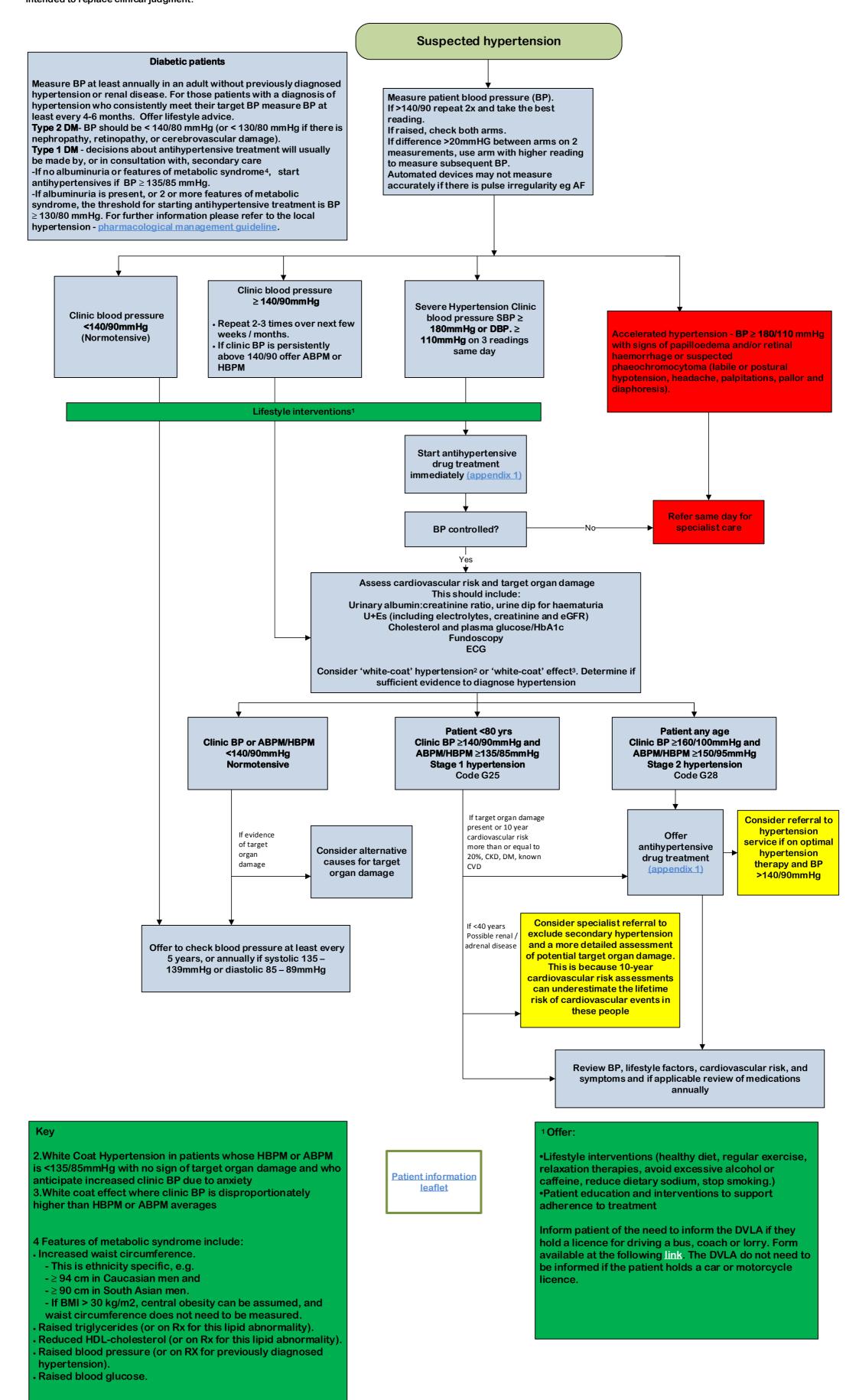
This guidance is to assist GPs in decision making and is not intended to replace clinical judgment.



References https://www.nice.org.uk/guidance/cg127

https://cks.nice.org.uk/diabetes-type-2

https://cks.nice.org.uk/diabetes-type-1

Comments & enquiries relating to medication:

Pathway created by NCL **Approved by Clinical Cabinet** November 2017 Review due November 2020

Clinical Contact for pathway queries: Camden.pathways@nhs.net

Antihypertensive drug treatment flowchart*

Aged < 55 years or Type 2 diabetic (any age)

ACE Inhibitor (ACEI) or low cost angiotensin receptor blocker (ARB) if true intolerance to ACEI**

(ACEI - Lisinopril, Ramipril capsules or Enalapril)
(ARB - Losartan)

*Beta-blocker (Atenolol) although not preferred initial therapy can be considered in younger patients (non-diabetic)***

Step 2

Step 1

CCB (Amlodipine)

Thiazide diuretic if CCB contraindicated/not tolerated (Bendroflumethiazide)

Type 2 Diabetic <u>AND</u> black person of African or Caribbean origin

ACE Inhibitor (ACEI) or low cost angiotensin receptor blocker (ARB) if true intolerance to ACEI**

(Lisinopril, Ramipril capsules or Enalapril) (ARB - Losartan)

PLUS

CCB (Amlodipine)

<u>OF</u>

Thiazide diuretic if CCB contraindicated/not tolerated (Bendroflumethiazide)

Aged > 55 years or black person of African or Caribbean origin of any age

Calcium Channel Blocker (CCB)

(Amlodipine)

OR

Thiazide diuretic if CCB contraindicated/not tolerated (Bendroflumethiazide)

ACEI or low cost ARB if true intolerance to ACEI**

(Lisinopril, Ramipril capsules or Enalapri) (ARB - Losartan)

Consider ARB in preference to an ACEI in black patients of African or Caribbean family origin

Step 3

- ACEI or low cost ARB if true intolerance to ACEI** (ACEI Lisinopril, Ramipril capsules or Enalapril) (ARB Losartan)
- CCB (Amlodipine) PLUS
- Thiazide diuretic (Bendroflumethiazide)

Consider adding a fourth antihypertensive drug and/or seeking specialist advice:

- ACEI or low cost ARB if true intolerance to ACEI** (ACEI Lisinopril, Ramipril capsules or Enalapril) (ARB Losartan)
 PLUS
- CCB (Amlodipine) PLUS
- Thiazide diuretic (Bendroflumethiazide) PLUS either
- Low-dose spironolactone (25 mg OD) if blood potassium level is 4.5 mmol/l or lower (consider higher dose thiazide diuretic if blood potassium higher than 4.5mmol/L) OR
- If further diuretic therapy is contraindicated/not tolerated/ineffective, consider an alpha blocker (Doxazosin immediate release) <u>OR</u> beta-blocker (Atenolol) <u>OR</u> in type 2 diabetics a potassium-sparing diuretic

If BP continues to be uncontrolled, seek specialist advice

Purple text indicates Camden's preferred medication choice

Step 4
Resistant
Hypertension

^{*} Adapted from Barnsley CCG 'Choosing drugs to lower blood pressure and reduce cardiovascular risk August 2012.11

^{**} If an ACE inhibitor is prescribed and not tolerated e.g. due to an intolerable cough, a low cost ARB can be offered as an alternative.

^{***} Younger patients include; those with an intolerance or contraindication to ACEIs or ARBs, women of child-bearing potential or those with evidence of increased sympathetic drive.