

# **Hypertension**

## A GUIDE FOR BROMLEY GENERAL PRACTICE

## **Key Messages**

- 1. Check blood pressure at every opportunity (and do a pulse check)
- 2. Lifestyle changes are key to reducing CV risk and lowering blood pressure
- 3. Check for complications and calculate a QRISK2 or 3
- 4. Optimise BP management (lifestyle + medication) and aim for NICE BP targets
- 5. Encourage adherence to lifestyle and medication, review at least annually

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## Contents

1.1	W	ny focus on blood pressure in Bromley?	
1.2 Hypertension diagnosis and assessment			
1.2	.1	Hypertension Diagnosis Algorithm <sup>3,4,5</sup> 4	
1.2	.2	Assessing cardiovascular (CV) risk using QRISK 2 or 3 and statin use <sup>3,4</sup> 5	
1.2	.2	Measuring Blood Pressure	
1.2	.3	Adding to the Hypertension Register	
1.2	.4	Assessment of Cardiovascular Risk - QRISK <sup>7,8</sup>	
1.2	.5	Further assessment: complications, underlying causes and investigations <sup>4,6</sup> 7	
1.3	Hy	pertension Management	
1.3	.1	Blood Pressure Target Algorithm (NICE and QOF targets) <sup>3,10,19,20,21,22</sup>	
1.3	.2	Impact of lifestyle changes on BP <sup>11</sup> 9	
1.3	.3	Pharmacological Management <sup>3,5,13,14</sup> 10	
1.3	.4	Preferred Anti-Hypertensive and Statin Medications <sup>5,3,15,16,17</sup> 11	
1.3	.5	Hypertension Review	
1.3	.6	AKI Sick Day Rules <sup>18</sup>	
1.3	.7	Referrals <sup>3,4</sup>	
1.4	Re	sources14	
1.4	.1	Patient Support14	
1.4	.2	Professional Support14	
1.5	Ab	breviations	
1.6	Re	ferences16	
1.7	Ac	knowledgements & Approval	





## **1.1** Why focus on blood pressure in Bromley?

Treatment of hypertension significantly reduces risk of stroke, IHD, heart failure and all-cause mortality.<sup>1</sup>

Hypertension is a risk factor for worse COVID-19 outcomes.

- Risk reduction: Every 10mmHg reduction in systolic BP reduces risk of major CV events by 20%<sup>1</sup>
- Under-treated: 57.3% of Bromley patients <80 years with hypertension have a BP >140/90mmHg<sup>2</sup>
- Under-diagnosed: An estimated 33,300 people remain undiagnosed in Bromley (prevalence = 13.5% vs expected = 26.2%)<sup>2</sup>

In Bromley, in a single year, reducing the average systolic BP in people with hypertension by **10mmHg could prevent:** 

- **95** people from having a stroke
- **83** people from developing heart failure •
- **123** people from developing IHD •
- **335** deaths







## **1.2** Hypertension diagnosis and assessment

## **1.2.1** Hypertension Diagnosis Algorithm<sup>3,4,5</sup>







## **1.2.2 Measuring Blood Pressure**

#### How to measure BP

- Initially measure blood pressure in both arms. If difference >15 mmHg, repeat measurements.
- If difference remains >15 mmHg on the second measurement, measure subsequent blood pressures in the arm with the higher reading (note this on EMIS).
- Consider the possibility of <u>coarctation of the aorta</u> if there is a difference in both arms.

#### When and how to measure standing and sitting BP

- Consider performing in patients with diabetes, symptoms of postural hypotension or age ≥80yrs.
- Measure sitting BP and then ask patient to stand, wait at least one minute and then measure standing BP.
- If postural hypotension is diagnosed (≥20 mmHg systolic drop from sitting to standing) or patient has symptoms of postural hypotension, review medication and treat to BP target based on standing BP.

#### Ambulatory BP monitoring (ABPM)

- Ensure sufficient readings minimum 14 readings during waking hours.
- Use daytime average BP for diagnosis.

#### Home BP monitoring (HBPM)

- Ensure a validated (and calibrated) BP machine is being used.
- Advise to record two BP readings each morning and evening for at least 4 days (ideally 7).
- Disregard the first day's readings and calculate the average of the remaining readings.

## 1.2.3 Adding to the Hypertension Register

#### To add to the hypertension register

- Code most cases as 'Essential Hypertension'.
- Where appropriate, e.g. if the patient has hypertension in pregnancy, use an alternative specific code, ensuring that it is recognised for QOF purposes as indicated by the icon **QOF** when selecting the code in EMIS Web.





## 1.2.4 Assessment of Cardiovascular Risk - QRISK<sup>7,8</sup>

#### QRISK

QRISK is a risk calculator for predicting the risk of cardiovascular disease (CVD) over the next 10 years and is used to guide the need for both antihypertensive and lipid modification therapy (statin use).

- For use in ages 25 84 years (may underestimate risk in under 40s). •
- Not applicable if already high risk of CVD (should be considered for statin therapy ٠ anyway):
  - Type 1 DM
  - $\geq$  85 years
  - > Familial hypercholesterolaemia
  - History of CVD including stroke/TIA
  - CKD 3-5 for QRISK2 (QRISK3 does include CKD)
- The CVD risk is an estimate. Clinical judgement is required to adjust for factors • that the risk calculator does not take account of.
- QRISK also provides a 'heart-age' calculation which can help inform discussions • about risk reduction.

#### **Recommending a statin for primary prevention:**

Offer a statin to people with an estimated 10-year CVD risk (QRISK) of  $\geq$  10%, if lifestyle interventions have proved to be ineffective.

See SEL IMOC Lipid Management Medicines Optimisation Pathway.

### **QRISK2 vs QRISK3**

QRISK3 is the latest QRISK iteration. It includes more factors than QRISK2 to identify those most at risk of heart disease and stroke, as follows:

- Chronic kidney disease (including stage 3 CKD) •
- Migraine
- Corticosteroids
- Systemic lupus erythematosus (SLE)
- Atypical antipsychotics
- Severe mental illness
- **Erectile dysfunction**
- A measure of systolic blood pressure variability

QRISK2 will underestimate risk for the above conditions.



**QRISK2** On EMIS Web: 'QRisk2 Data Entry Template' **QRISK3** Not on EMIS yet: find online here





## 1.2.5 Further assessment: complications, underlying causes and investigations<sup>4,6</sup>

#### Hypertension increases the risk of a number of conditions including:

Cardiovascular Heart failure Coronary artery disease Stroke Peripheral arterial disease Vascular dementia Hypertensive retinopathy **Renal** Chronic kidney disease Acute kidney injury

#### **Ophthalmological** Hypertensive retinopathy (retinal haemorrhage & papilloedema)

Underlying conditions/drugs may cause secondary hypertension (refer if an underlying condition is suspected):

#### Cardiovascular

Coarctation of the aorta Aortic dissection (to A&E) Renal Chronic pyelonephritis Diabetic nephropathy Glomerulonephritis Polycystic kidney disease Obstructive uropathy Renal cell carcinoma Renal artery stenosis

#### Endocrine Phaeochromocytoma (to A&E) Thyroid disease Primary hyperaldosteronism (i.e. Conn's syndrome) Cushing's syndrome Acromegaly

## Other conditions

Connective tissue disorders (SLE, scleroderma, polyarteritis nodosa) Retroperitoneal fibrosis Obstructive sleep apnoea

#### Drugs Alcohol, ciclosporin, cocaine, COCP, corticosteroids, erythropoietin,

corticosteroids, erythropoietin, leflunomide, liquorice, NSAIDs, sympathomimetics, venlafaxine

### Targeted history, examination and investigation should be undertaken to check for complications/target organ damage/underlying causes. Consider the following:

Risk Factors: Record family history of CVD, smoking status, obesity (BMI, waist circumference), physical activity level, alcohol intake, family history of renal disease. Calculate QRISK. Use the Ardens BP data entry template.

#### Signs of coarctation of the aorta

Different BP in both arms Radiofemoral delay Absent/weak femoral pulses Palpable collateral vessels in back muscles Suprasternal murmur radiating to back

### Renal Symptoms/Signs Abdominal/flank/loin mass

(? polycystic kidney disease/obstructive uropathy/renal cell carcinoma) Abdominal bruit (? renal artery stenosis)

#### Worrying Symptom/Signs

#### Life-threatening symptoms - Refer to Emergency Department

- new onset confusion, chest pain, acute heart failure, suspected TIA
- Accelerated hypertension Refer same day to Medical Ambulatory Unit
  - Retinal haemorrhage, papilloedema (hypertensive retinopathy)

#### Phaeochromocytoma - Refer to Emergency Department

- Labile BP, postural hypotension, headache, palpitations, pallor, abdominal pain, excessive sweating

Investigations: 12 lead ECG, lipid profile, FBC, renal function\*, TFT, HbA1c, urine dip for haematuria, urine ACR, consider renal US if suspected renal cause

\* Latest NICE CKD guidance (August 2021) advises glomerular filtration rate (eGFR) adjustment should no longer be performed in people of African-Caribbean or African family background.<sup>9</sup>





## **1.3 Hypertension Management**

## 1.3.1 Blood Pressure Target Algorithm (NICE and QOF targets) <sup>3,10,19,20,21,22</sup>



Use the SNOMED CT codes "Target systolic blood pressure" & "Target diastolic blood pressure" to record the *clinic* target blood pressure in the patient record. These may be entered manually or via the Arden's Hypertension Data Entry Template. Recording of these targets may help non-clinicians to triage *adjusted* home and waiting room readings.





## **1.3.2** Impact of lifestyle changes on BP<sup>11</sup>

Action	Recommendation	Approximate systolic BP reduction
Reduced weight	Maintain healthy body weight	5-20mmHg/10kg loss
DASH diet	Consume a diet rich in fruits, vegetables, low-fat dairy with reduced saturated and total fat	8-14mmHg
Reduced salt intake	Reduced dietary sodium intake <u>(&lt;1 teaspoon/day)</u>	2-8mmHg
Increased exercise	Regular aerobic physical activity (at least 30 min/day, most days of the week)	4-9mmHg
Reduced alcohol intake	Below or equal to 14 units/week	2-4mmHg

Note: In addition to the above, discourage consumption of excessive caffeine or caffeine-rich products.<sup>3</sup> Average BP reduction (systolic) from one anti-hypertensive drug= 12.5-15.5mmHg.<sup>12</sup> The effects of implementing lifestyle modifications are dose and time dependent, and could be greater for some individuals.







## 1.3.3 Pharmacological Management<sup>3,5,13,14</sup>









## **1.3.4** Preferred Anti-Hypertensive and Statin Medications<sup>5,3,15,16,17</sup>

Class	Drug	Starting Dose	Daily Range	Notes (these are not extensive, please refer to the latest BNF for further information especially titration increments/cautions/contra-indications)
ACEIs	1st Line: Ramipril         2nd line: Lisinopril	2.5mg OD (1.25mg OD in frail/elderly patients) 10mg OD	2.5-10mg OD 10-80mg OD (usual maintenance	<ul> <li>For people of Black African or African-Caribbean family origin, use ARB instead of ACEI (as increased risk of angioedema with ACEI)</li> <li>Check baseline renal profile (Na/K/Cr/eGFR). Hyperkalaemia may occur, therefore close monitoring of serum potassium is required</li> </ul>
ARBs	Losartan Candesartan	50mg OD (25mg OD if >75yrs old) 8mg OD	acse 20mg OD for hypertension)       50-100mg OD       8mg-32mg OD	<ul> <li>Re-check renal profile within 2 weeks of initiation, or dose increase and then at least annually</li> <li>Titrate ACEI/ARB up at 2-4 weekly intervals to achieve optimal BP control</li> <li>Initiation/Dose titrations: If serum creatinine increases by &gt;20% (or eGFR falls by &gt;15%) – stop ACEI and seek specialist advice. ACEI dose should only be increased if serum creatinine increases by less than 20% (or eGFR falls by less than 15%) after each dose titration, and potassium &lt;5.5mmol/l</li> </ul>
				<ul> <li>ACEI/ARB dose should be optimised before the addition of a second agent</li> <li>Side-effects: Symptomatic hypotension can occur on first dosing – suggest to take at night. Dry cough with ACEI, consider switch to ARB</li> <li>Caution: Do not combine an ACEI and an ARB to treat hypertension</li> <li>For diabetic nephropathy ARB of choice: losartan and irbesartan<sup>5</sup></li> </ul>
CCBs	Amlodipine	5mg OD	5-10mg OD	<ul> <li>Increase after 2-4 weeks to maximum dose of 10mg OD</li> <li>Caution: Interacts with simvastatin – consider switching to atorvastatin</li> <li>Step 1: If amlodipine causes ankle oedema, consider using a thiazide-like diuretic instead of a CCB</li> <li>Cl: Unstable angina, aortic stenosis</li> <li>Side effects include flushing and headaches at initiation: swollen ankles especially at higher doses</li> </ul>
Thiazide-like diuretics	Indapamide (IR)	2.5mg OD	2.5mg OD	Check baseline renal profile, then after 2 weeks, then at least annually. If potassium <3.5mmol/l or eGFR <25ml/min, stop indapamide and seek specialist advice
Aldosterone antagonist	Spironolactone	25mg OD	25mg OD	<ul> <li>Step 4: Spironolactone is the preferred diuretic at step 4 (NICE), but is an unlicensed indication in resistant hypertension (BNF)</li> <li>Consider only if potassium ≤4.5mmol/l (caution in reduced eGFR&lt;30ml/min, as increased risk of hyperkalaemia). Monitor Na/K/renal function within 1 month and repeat 6 monthly thereafter<sup>5</sup></li> <li>If K&gt;4.5mmol/l should be stopped.</li> </ul>
Alpha blocker	Doxazosin (IR)	1mg OD	2-16mg OD (or BD dosing when dose >8mg/day)	<ul> <li>Consider at Step 4 if potassium ≥4.5mmol/I. Initial dose of 1mg usually increased after 1-2 weeks to 2mg OD</li> <li>At doses above 8mg/day, consider split dosing from OD to BD to reduce BP variation</li> <li>Caution: Initial dose postural hypotension, avoid in elderly as orthostatic hypotension risk<sup>5</sup></li> </ul>
Beta blocker	Atenolol	25mg OD	25-50mg OD	<ul> <li>Consider at Step 4 if potassium ≥ 4.5mmol/l.</li> <li>Beta blockers may be considered in younger people and in those with an intolerance/CI to ACEI or ARBs, women of childbearing potential. co-existent anxiety/tachycardia/beart failure</li> </ul>
	Bisoprolol	5-10mg OD	5-20mg OD	<ul> <li>Particular caution in T2DM: symptoms of hypoglycaemia may be masked</li> <li>Caution: Increased risk of diabetes when beta-blocker is prescribed with a thiazide diuretic. Beta-blockers can cause bradycardia if combined with certain CCBs e.g., verapamil/diltiazem</li> <li>Cl: Asthma, 2nd/3rd degree AV block, severe PAD</li> </ul>
Statin	Atorvastatin	20mg OD	20-80mg OD	See <u>SEL IMOC guideline on lipid management</u> : medicine optimisation pathways (Sept 2021) - Primary prevention 20mg, secondary prevention 40-80mg (alternative is rosuvastatin)
This guidance is a	ligned to <u>SEL IMOC Hype</u>	ertension 2021 guidance	tor Primary Care	





## **1.3.5** Hypertension Review

Patients with hypertension should be reviewed at least annually.

	Tasks/Activity		Who?	Where?	Tools/Support
Review planning at practice level	<b>Call/recall planning:</b> Use Arden's searches to help determine who to prioritise for review.		Admin colleague with clinician support (GP nurse/GP)	In practice or remotely	Arden's searches
Pre-patient review	Contact patien 1. 2.	nt to: Arrange bloods (renal function, FBC, lipids, HbA1c) & urine ACR Arrange BP measurement + pulse check (in practice or using machine at home), at least annually	HCA/GP Nurse	Remote or F2F In practice/at home	AccuRx text messages E-consult which has a BP review page
Patient review	1. 2. 3. 4. 5. 6. 7.	Concerns + screen for symptoms/complications related to:	GP/GP Nurse/GP pharmacist	Remote or F2F	Arden's template (for correct coding, annual review, medication review & Vital 5** recording) <u>Brief-interventions</u> around lifestyle
	8.	Self-management/Shared-decision making	GP/GP Nurse/GP Pharmacist or Social prescriber, Care Navigator & Patient		Self-management resources - send links via AccuRx: British Heart Foundation resources • <u>Understanding your BP</u> • <u>6 tips for reducing BP</u> • <u>BP and COVID-19</u> • <u>Online Community</u> for patients • <u>Online programme about BP for patients</u>
	9.	Follow-up plans: review BP monthly until it is at target	pharmacist/HCA		





## 1.3.6 AKI Sick Day Rules<sup>18</sup>

When patients have any of the following: vomiting, diarrhoea, or general dehydration due to intercurrent illness. Advise to STOP taking the medications listed below (restart after feeling well/after 24-48hrs of eating and drinking normally).

• Sulfonylureas, ACE inhibitors, Diuretics, Metformin, ARBs, NSAIDs, SGLT2 inhibitors (e.g. empagliflozin) - 'SADMANS' rules

## 1.3.7 Referrals<sup>3,4</sup>

Refer patients with <u>worrying symptoms/signs</u> for same day specialist review. Suspected cases of uncomplicated accelerated hypertension should be referred to the Medical Ambulatory Unit at Princess Royal University Hospital. Cases of suspected phaeochromocytoma or severe hypertension with life threatening features should be referred to the Emergency Department.

EMERGENCY REFERRALS	
	ROP – Acute / Referrals / Acute Referral Form

Refer the following for outpatient specialist advice:

- Patients of any age where a <u>secondary cause</u> for hypertension is suspected.
- All patients <40 years with BP ≥140/90 mmHg, even with no evidence of CVD, renal/hypertensive eye disease or diabetes.
  - The 10-year CV risk can underestimate the lifetime risk of CV events in this cohort.
  - Patients of African or Caribbean family origin can present with primary hypertension at an earlier age.
  - If in doubt, consider using eRS Advice and Guidance to discuss need for referral.
- Patients with resistant hypertension: blood pressure uncontrolled on three or four antihypertensive medications. NICE recommends referral once taking four medications but local clinics will accept referral for patients taking three.

Both nephrology and cardiology specialties manage hypertension. The Referrals Optimisation Protocol automatically detects if the patient has renal disease (if correctly coded) and will suggest referral to the nephrology clinic regardless of the original specialty selected.







## **1.4 Resources**

## **1.4.1** Patient Support

#### **Patient resources**

- Bromley Well: Hypertension Fact Sheet and Lifestyle Support Information
- Blood pressure information for patients (translated) and 'Loving your heart: a South Asian guide to controlling your BP'
- British Heart Foundation: Preventing Heart Disease (resources for patients)
- British Heart Foundation: How to reduce your blood pressure 6 top tips (see page 8 for more)
- British Heart Foundation: Our online community
- <u>Get help to stop smoking (London Borough of Bromley)</u>
- <u>Stop Smoking London</u>
- Better Health NHS (www.nhs.uk)

## 1.4.2 Professional Support

- Urgent telephone advice Consultant connect: Cardiology (using dedicated practice telephone number)
- Non-urgent use eRS 'Advice & Guidance' Nephrology, Cardiology or Obstetric medicine





## **1.5** Abbreviations

- ABPM –Ambulatory blood pressure monitoring ACEI– Angiotensin converting enzyme inhibitor ACR – Albumin-creatinine ratio A&G – Advice & Guidance AKI – Acute kidney injury ARB- Angiotensin II receptor blocker BD – Twice daily dosing BMI – Body mass index BP – Blood pressure CCB – Calcium channel blocker CI - Contraindication CKD – Chronic kidney disease Cr – Serum creatinine
- CV Cardiovascular CVD – Cardiovascular disease DASH diet – Dietary approaches to stop hypertension diet DXS – Point-of-care tool for EMIS Web ECG – Electrocardiogram (12-lead) eGFR – Estimated glomerular filtration rate eRS – Electronic referral system FBC – Full blood count GSTT – Guy's & St Thomas' NHS Trust HF – Heart failure K – Serum potassium KCH – King's College Hospital NHS Trust HbA1c – Haemoglobin A1c HBPM – Home blood pressure monitoring

IHD – Ischaemic heart disease
IR – Immediate release
LVH – Left ventricular hypertrophy
Na – Serum sodium
NSAID – Non-steroidal anti- inflammatory drug
OD – Once daily (dosing)
PAD – Peripheral arterial disease
QOF – Quality and outcomes framework (contract)
QRISK2 or 3- an algorithm that predicts 10-year CVD risk.
Renal profile – this includes serum sodium/potassium/creatinine/eGFR
SELAPC – South East London Area Prescribing Committee
TFT – Thyroid function blood tests
TIA-Transient ischaemic attack
T2DM – Type-2 diabetes





## **1.6 References**

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## **1.7 Acknowledgements & Approval**

CESEL guides are co-developed by SEL primary care clinicians and local SEL experts (see below) and are localised to include borough specific pathways and resources. This guide has been through a formal approval process, including by SEL Medicine Optimisation Committee (SEL MOC) for the medicines content and the CESEL Steering Group, with representation from SEL CCG, PCNs and borough-based Medicines Management Teams (MMTs).

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# Making the right thing to do, the easy thing to do.