

Proactive Care Frameworks Managing CV risk factors A holistic approach

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Weight Public Health England

Health Matters

10 year cardiovascular disease ambitions for England

Atrial fibrillation (AF)

High blood pressure

154 •91

85%

of the expected number of **people** with AF are detected by 2029

90%

of patients with AF who are already known to be at high risk of a stroke **to be** adequately anticoagulated by 2029

80%

of the expected number of people with high blood pressure are diagnosed by 2029

80%

of the total number of people already diagnosed with high blood pressure are **treated to target** as per NICE guidelines by 2029

High cholesterol



75%

of people aged 40 to 74 have received a formal validated CVD risk assessment and cholesterol reading recorded on a primary care data system in the last five years by 2029

45%

of people **aged 40 to 74 identified as having a 20% or greater 10-year risk** of developing CVD in primary care are treated with statins by 2029

25%

of people with Familial Hypercholesterolaemia (FH) are diagnosed and treated optimally

COVID-19: Impact on Care and Outcomes in Long-Term Conditions UCLPartners

Covid impact

- 1. Disruption of routine, proactive care in high impact conditions such as CVD, hypertension, diabetes, COPD, asthma
- 2. Risk of deterioration/exacerbation in high impact conditions driving further waves of demand for urgent care and increasing premature mortality and morbidity

Historic Diagnosis and Treatment Gap

In the high risk conditions for CVD (AF, Blood Pressure, Cholesterol)

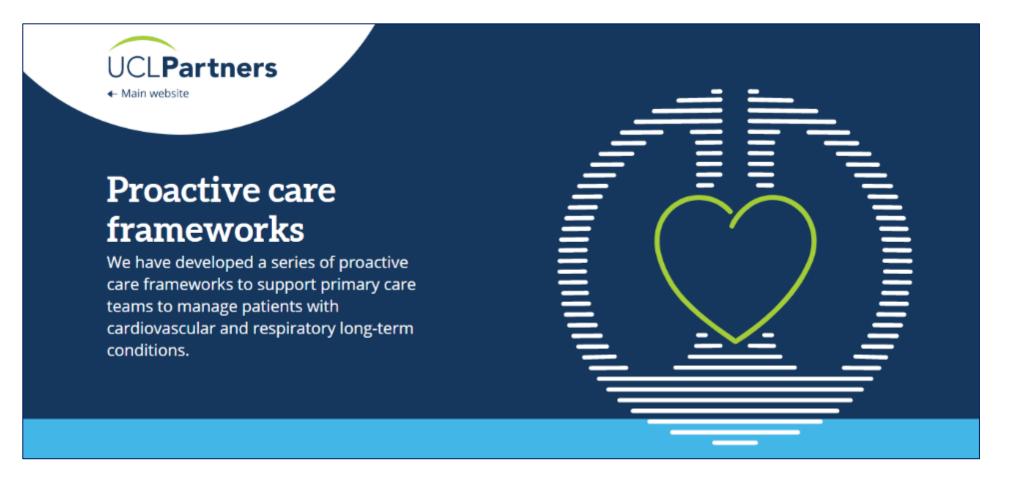
- Under diagnosis
- Sub-optimal treatment
- is common

• Variation in care

The NHS Long Term Plan 2019: "We will prevent 150,000 heart attacks, strokes and cases of dementia by optimising the diagnosis and management of high blood pressure, high cholesterol and atrial fibrillation"

Frameworks to support primary care transformation





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High Impact Conditions

CVD prevention

- 1. Atrial Fibrillation
- 2. Blood pressure
- 3. Cholesterol
- 4. Type 2 Diabetes

Respiratory

- 5. Asthma
- 6. COPD

In development

- 7. Heart Failure
- 8. SMI

Framework Principles

- Primary care led with PPI support
- Improve clinical care and self-care
- Free clinician capacity

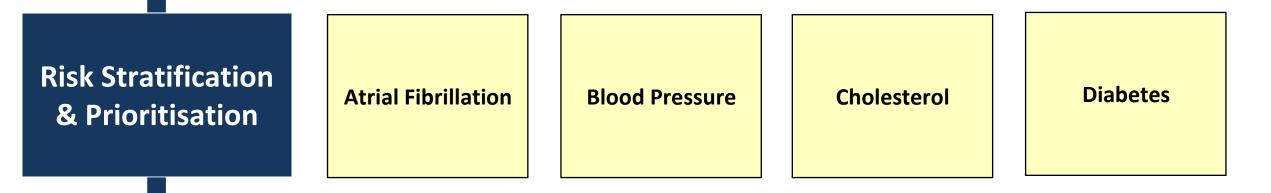
Population Health Management Approach

- Risk stratification based on NICE
 guidance
- Prioritisation to optimise treatment early in those with greatest need
- Deploy wider workforce to support selfmanagement and personalisation of care



Healthcare Assistants/Health & Wellbeing Coaches and other trained staff

	Self management e.g.	Education (signposting online resources), self care (eg BP measurement, foot checks, red flags), signpost shared decision-making resources (eg statins, anticoagulants)
	Behaviour change e.g.	Brief interventions and signposting e.g. smoking, weight, diet, exercise, alcohol
d	Support holistic care	Identify wider needs and signpost to eg social prescriber, care coordinator
	Gather information e.g.	Up to date bloods, BP, weight, smoking status, run risk scores: QRISK, ChadsVasc, HASBLED

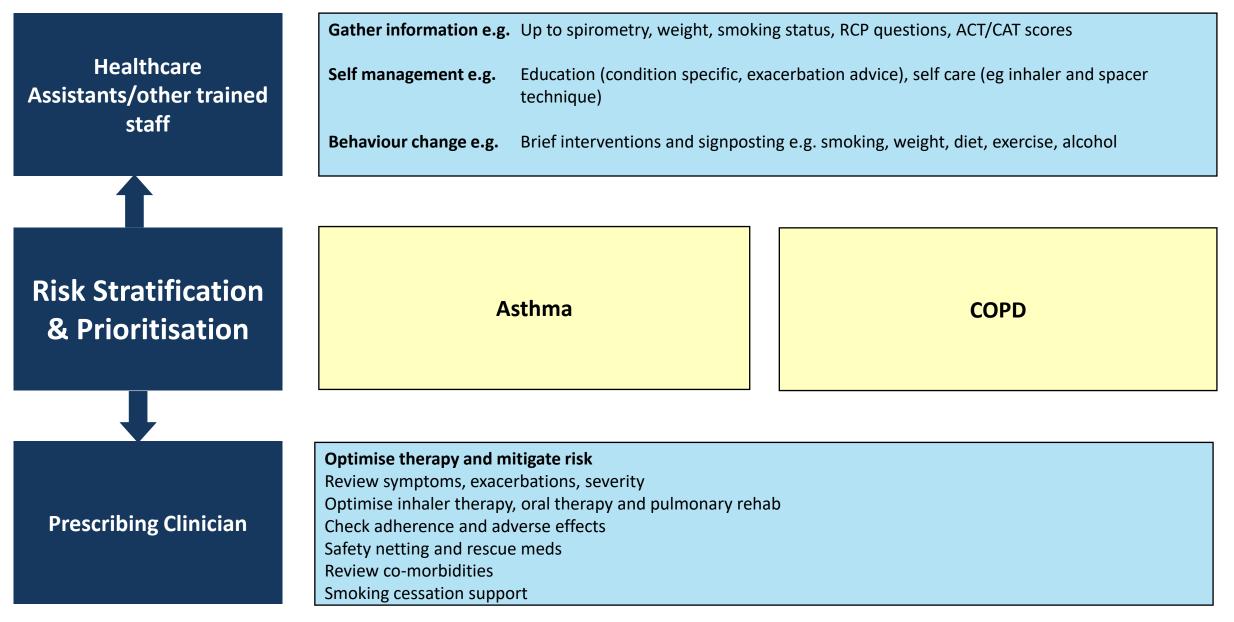


Prescribing Clinician

Optimise therapy and mitigate risk

- 1. Review blood results, risk scores & symptoms
- 2. Initiate or optimise therapy
- 3. Check adherence and adverse effects
- 4. Review complications and co-morbidities
- 5. CVD risk BP, cholesterol, pre-diabetes, smoking, obesity

UCLP Proactive Care Frameworks Overview: Respiratory Conditions



UCLPartners Proactive Care Frameworks: the Components



- 1. Comprehensive **GP stratification tools** built for EMIS and SystmOne
- **2. Pathways** that prioritise patients for follow up, support remote delivery of care, and identify what elements of LTC care can be delivered by staff such as Health Care Assistants and link workers.
- 3. Scripts and protocols to guide Health Care Assistants and others in consultations.
- **4. Training** for staff to deliver education, self-management support and brief interventions. Training includes health coaching and motivational interviewing.
- 5. Digital and other resources that support remote care and self care.
- 6. Project management and support for local clinical leadership

The UCLPartners Proactive Care Frameworks focus on The HOW of doing things differently

Cholesterol – Secondary Prevention (pre-existing CVD)



Healthcare assistants/other	Gather information e.g. Self-management e.g.	Up to date bloods, BP, weight, smoking status. Education (cholesterol, CVD risk), BP monitors (what to buy, how to use), signpost to shared decision making resources.				
appropriately trained staff	Behaviour change e.g.	Brief interventions and signposting e.g. smoking, weight, diet, exercise, alcohol.				
Stratification	Priority One Not on statin therapy	Priority Two On suboptimal intensity statin*	Priority Three On suboptimal statin dose**	Priority Four Sub-optimal non-HDL (>2.5mmol/l) levels despite maximal statin therap		
	Optimise lipid modification therapy and CVD risk reduction1. Review CVD risk factors, lipid results and liver function tests.					
Dressribing clinician	2. Initiate or optimise statin to high intensity – e.g. atorvastatin 80mg.					
Prescribing clinician	.,					
	 Optimise BP and other comorbidities. Use intolerance pathway and shared decision-making tools to support adherence. Arrange follow-up bloods and review if needed. 					

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** E.g atorvastatin 40mg

Cholesterol – Primary Prevention (no pre-existing CVD)



Healthcare assistants/other appropriately trained staff	Gather information: Self-management: Behaviour change:	ment: Education (cholesterol, CVD risk), BP monitors (what to buy, how to use), signpost to shared decision making resources.						
Stratification	Priority One One of: • QRISK ≥20% • CKD • Type 1 Diabetes AND • Not on statin	Priority Two• QRISK 15-19%AND• Not on statin	Priority Three• QRISK 10-14%AND• Not on statin	Priority Four On statin for primary prevention but not high intensity				
Prescribing clinician	Prescribing clinician Review QRISK score, lipid results and LFTs. Initiate or optimise statin to high intensity – eg atorvastatin 20mg. Titrate therapy against reduction in LDLc/non-HDLc (statin>ezetimibe). Optimise BP and other comorbidities. Use intolerance pathway and shared decision-making tools to support adherence. Arrange follow-up bloods and review if needed. 							

*QRISK 3 score is recommended to assess CV risk for patients with Severe Mental Illness, Rheumatoid Arthritis, Systemic Lupus Erythematosus, those taking antipsychotics or oral steroids

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Implementation Resources



- 1. Optimisation Pathway for Secondary Prevention
- 2. Optimisation Pathway for Primary Prevention
- 3. <u>Statin Intolerance Pathway</u>
- 4. Muscle Symptoms Pathway
- 5. <u>Abnormal Liver Function Test Pathway</u>
- 6. <u>Shared Decision-Making Resources</u>
- 7. <u>Statin Intensity Table</u>
- 8. <u>Summary of Lipid Lowering Therapies</u>
- 9. Inclisiran for Secondary Prevention
- 10. <u>Bempedoic Acid for Use in Statin Intolerance</u>
- 11. QRISK2/3
- 12. Familial Hypercholesterolaemia (FH) Detection and Management in Primary Care

Lower blood pressure and cholesterol in patients with hypertension



Preventing CVD in people with hypertension requires control of blood pressure and cholesterol

- 1. Around 50% of people with established CVD also have hypertension.
- 2. 40-50% of people with established CVD are either on no lipid lowering treatment or suboptimal treatment
- 3. All men over 55 with hypertension and all women over 60 with hypertension also have a QRisk score above 10%. Large numbers are not on statins.

By targeting optimisation of blood pressure and cholesterol in patients with hypertension, especially for secondary prevention, we will prevent large numbers of heart attacks and strokes in a short time frame.

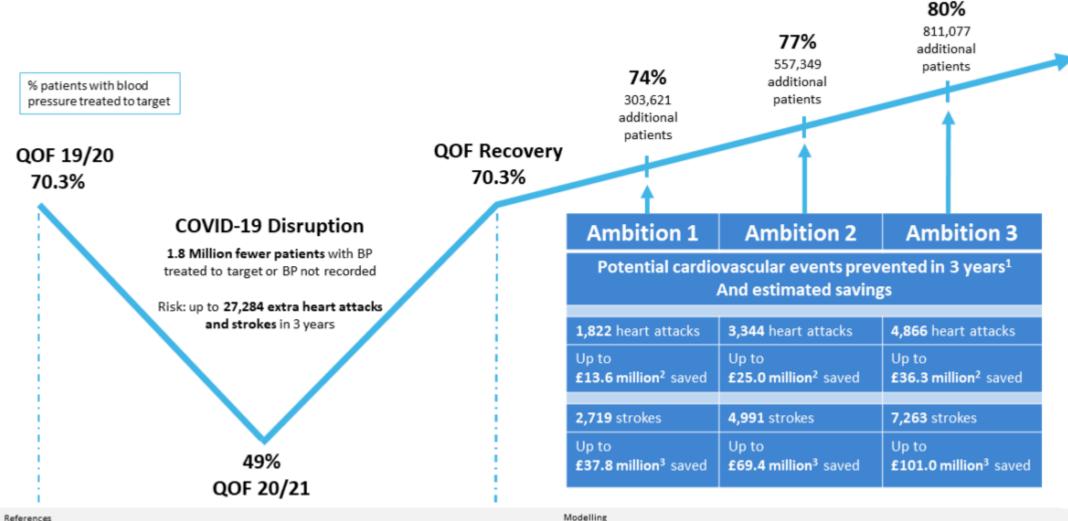
Size of the Prize – England BP Optimisation to Prevent Heart Attacks and Strokes at Scale



Data source: NCVIN 2021. Briefing note: QOF 2020/21 Management of hypertension - HYPALL metric (HYP003 + HYP007).

Potential events calculated with NNT (theNNT.com). For blood pressure, anti-hypertensive medicines for five years to

prevent death, heart attacks, and strokes: 1 in 100 for heart attack, 1 in 67 for stroke.



References

Royal College of Physicians (2016). Sentinel Stroke National Audit Programme. Cost and Cost-effectiveness analysis. 2.

Kerr, M (2012). Chronic Kidney disease in England: The human and financial cost З.

Public Health England and NHS England 2017 Size of the Prize 1.

Hypertension: stratification and management



	Gather information	Gather information e.g. Up to date bloods, BP, weight, smoking status, run QRISK score				
Healthcare Assistants/Health & Wellbeing Coaches and	Self management e	. g. Education (blood pr resources	essure, CVD risk), self	care (eg BP measurement), sign post self care		
other trained staff	Behaviour change e	Behaviour change e.g. Brief interventions and signposting e.g. smoking, weight, diet, exercise, alcohol				
	Priority One	Priority Two	Priority Three	Priority Four		
Stratification & Prioritisation	BP >180/120	BP.160/100 or >140/90 if BAME plus comorbidities or no recorded BP in 18 months	BP >140/90	BP <140/90 under age 80 years OR BP <150/90 aged 80 years and over		
Prescribing Clinician	 Optimise anticoagulation therapy and CVD risk reduction 1. Review: blood results, risk scores & symptoms 2. Check adherence and adverse effects 3. Review complications and co-morbidities 4. Initiate or optimise blood pressure medication 5. CVD risk – optimise lipid management and other risk factors 					

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Example modelling (One London borough)

- Informs workflow and workforce planning
- Helps GPs meet QOF and other targets
- Shift between priority groups over time shows clinical impact

Borough level searches

Total Population: ~446,000 Hypertension: 40,155

Priority Group	Definition	No. of patients	%
PRIORITY 1	Clinic BP ≥180/120mmHg	541	1%
PRIORITY 2a	Clinic BP ≥160/100mmHg	2,756	7%
PRIORITY 2b	Clinic BP ≥140/90mmHg and BAME + additional CV risk factor	3,827	10%
Priority 2c	No BP reading in last 18 months	5,902	15%
Priority 3a	Clinic BP ≥140/90mmHgBP if BAME or CVD, CKD, diabetes	3,818	10%
Priority 3b	BP ≥140/90mmHg - all other patients	2,347	6%
Priority 4a	BP < 140/90mmHg (under 80 years)	18,013	45%
Priority 4b	BP < 150/90mmHg (80 years and over)	2,951	7%







Atrial Fibrillation: stratification and management



Gather information e	.g. Up to date bloods, B	P, weight, smoking sta	tus, run ChadsVasc, HA	SBLED, QRISK score
Self management e.g.	Education (AF/strokomaking resources.	e risk, bleeding risk, CV	/D risk reduction), signp	ost to shared decisior
Behaviour change e.g	Brief interventions a	and signposting e.g. sm	oking, weight, diet, exe	rcise, alcohol
Priority One Not on anticoagulant	Priority Two On anticoagulant & antiplatelet/s	Priority Three On Warfarin	Priority Four On DOAC Renal function >12m ago	Priority Five On DOAC Renal function <12m ago
Offer anticoagulant if indicated	Review need for antiplatelets	<u>Check TTR for</u> optimal control	<u>Check CrCl and</u> <u>review dosage</u>	Routine review
 Optimise anticoagulation therapy and CVD risk reduction 1. Review: blood results, risk scores & symptoms 2. Initiate or optimise anticoagulant 				
	Self management e.g. Behaviour change e.g Priority One Not on anticoagulant Offer anticoagulant if indicated	Self management e.g.Education (AF/strok making resources.Behaviour change e.g.Brief interventions aPriority One Not on anticoagulantPriority Two On anticoagulant & antiplatelet/sOffer anticoagulant if indicatedReview need for antiplateletsOptimise anticoagulation therapy and CVD ris 1.Review: blood results, risk scores & symp	Self management e.g. Education (AF/stroke risk, bleeding risk, CV making resources. Behaviour change e.g. Brief interventions and signposting e.g. sm Priority One Not on anticoagulant & antiplatelet/s Not on anticoagulant Priority Two Offer anticoagulant if indicated Review need for antiplatelets Optimise anticoagulation therapy and CVD risk reduction 1. Review: blood results, risk scores & symptoms	Priority One Priority Two Priority Three Priority Three Not on anticoagulant On anticoagulant & antiplatelet/s On Warfarin Priority Four Offer anticoagulant Review need for antiplatelets Check TTR for optimal control Check CrCl and review dosage Optimise anticoagulation therapy and CVD risk reduction 1. Review: blood results, risk scores & symptoms





HCA – phone and video consultations and texts to share resources

- Asks about his understanding of blood pressure and cholesterol
- Provides information and signposts *British Heart Foundation* websites to support education and self management
- Shares videos showing him how to measure BP and send in results activates AccuRx Florey for BP monitoring
- Asks about smoking and asks if he is ready to quit signposts to OneYou website for a personal quit plan; and signposts to local stop smoking service
- Asks how he has been coping with lockdown and signposts to *EveryMindMatters* website for tips on mental wellbeing
- Collates information to support clinician consultation





HCA collates information to support clinical consultation

- Average home BP readings: 162/91mmHg
- BMI 28kg/m²
- Blood results T chol: 6.1mmol/L, HDL: 0.9mmol/L; non-HDL: 5.2mmol/L
- Smoking status ~15 cigarettes per day
- QRisk2 score = 17.5% (smoker, sBP 162mmHg and TC / HDL ratio 6.7)
- Patient record shows that amlodipine has been picked up at regular intervals over the past 9 months





Prescribing Clinician – phone, video or face-to-face

- Reviews readings and blood results
- Highlights lifestyle issues smoking, weight loss refer for follow up by social prescriber
- Asks if John has any concerns or side effects with his medication and if he is taking it regularly – explores adherence issues
- Checks on complications and co-morbidities
- Adjusts his BP medication, if necessary
- Recommend statins John will have a look at the BHF website link and shared decision making resources and think about it before follow-up appointment

Lifestyle Modifications



Modification	Kecommendation	Approximate Systolic Blood Pressure Reduction (mm Hg) ^a
Weight loss	Maintain normal body weight	5–20 per 10-kg weight loss
DASH-type diet*	DASH-type diet* Consume a diet rich in fruits, vegetables, and low-fat dairy products with reduced saturated and total fat	
Reduced salt intake	Reduce daily dietary sodium intake	2–8
Physical activity	Regular aerobic physical activity (at least 30 min/day, most days of the week)	4–9
Moderation of alcohol intake	Limit consumption to 2 drinks/day in men and 1 drink/day in women and lighter-weight persons	2–4

*DASH, Dietary Approaches to Stop Hypertension. Effects of implementing these modifications are time and dose dependent and could be greater for some patients.

Vooradi S, Mateti UV. A systemic review on lifestyle interventions to reduce blood pressure. J Health Res Rev [serial online] 2016 [cited 2021 Apr 27];3:1-5. Available from: <u>https://www.jhrr.org/text.asp?2016/3/1/1/173558</u>

In monotherapy, most drugs achieve systolic BP reductions of ~ 10 to 15 mmHg

https://journals.lww.com/md-journal/Fulltext/2016/07260/Treatment_efficacy_of_anti_hypertensive_drugs_in.16.aspx

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NICE Hypertension Treatment Pathway (NG136)



Monitoring treatment

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BP targets

Age <80 years:

Use clinic BP to monitor treatment

Type 2 diabetes or

Aged 80 and over

Provide training and advice

Clinic BP <140/90 mmHg ABPM/HBPM <135/85mmHg

• Base target on standing BP

Frailty or multimorbidity:

Use clinical judgement

Postural hypotension:

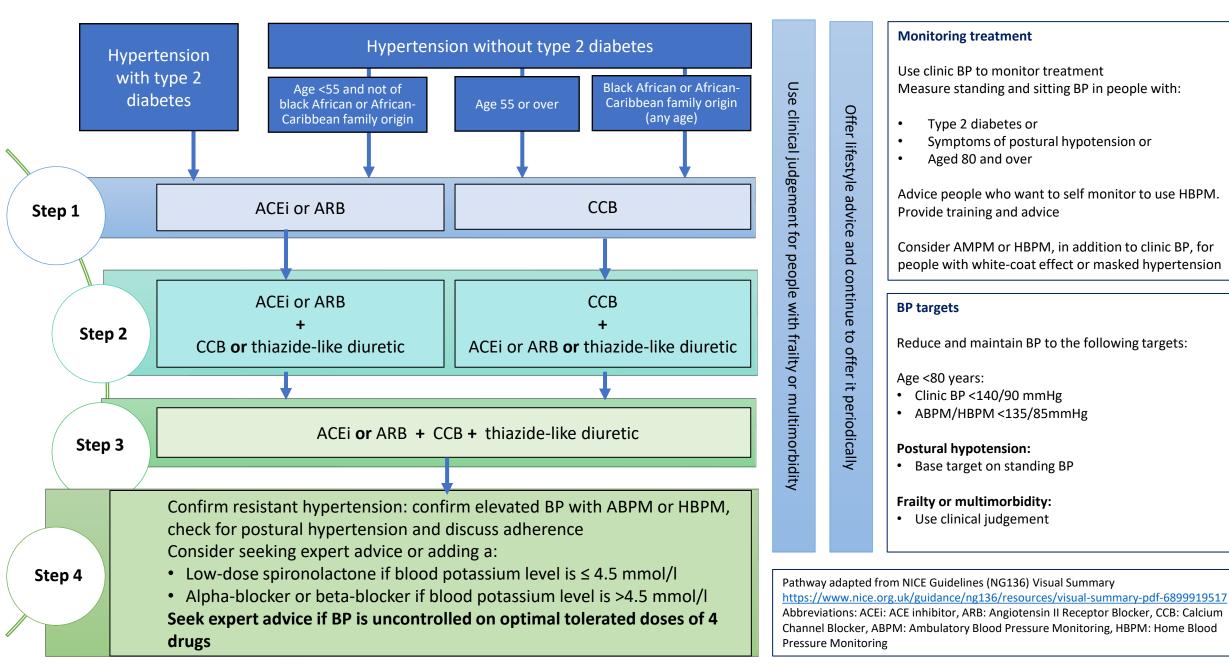
Measure standing and sitting BP in people with:

Symptoms of postural hypotension or

Advice people who want to self monitor to use HBPM.

Consider AMPM or HBPM, in addition to clinic BP, for people with white-coat effect or masked hypertension

Reduce and maintain BP to the following targets:





Time matters!

If systolic BP > 150 mm Hg...

• a <u>delay of > 6 weeks</u> before medication intensification

<u>OR</u>

 a <u>delay of > 12 weeks</u> before BP follow-up after antihypertensive medication intensification

Increases the risk of an acute cardiovascular event or death.

These findings support the importance of timely medical management and follow-up in the treatment of patients with hypertension

Xu et al. BMJ 2015;350:h158

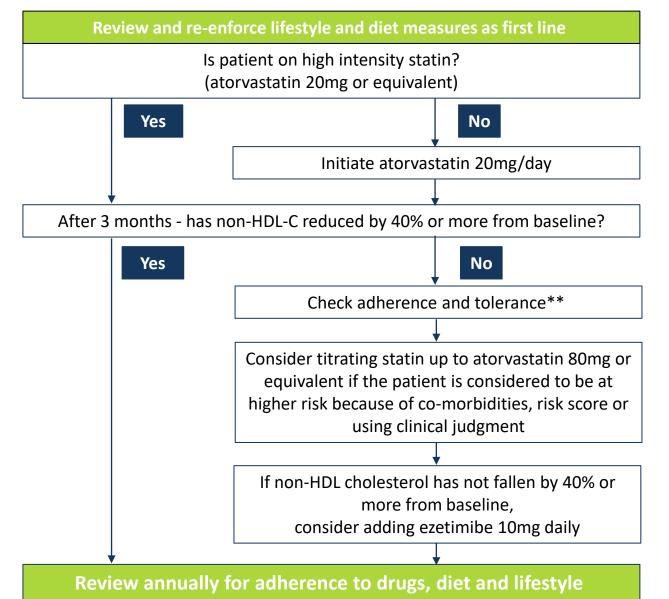




Follow up – phone, video or face-to-face

- Recheck and review bloods
- Follow up lifestyle issues smoking, weight loss
- Addresss any concerns or side effects with the new medication and check if he is taking it regularly
- Titrate BP medication, if necessary
- Revisit statins and initiate atorvastatin 20mg daily after a shared decision

Optimisation Pathway for Patients with High Cardiovascular Risk* – Primary Prevention



Optimal High Intensity statin for Primary Prevention (High intensity statins are substantially more effective at preventing cardiovascular events than low/medium intensity statins)

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Atorvastatin	20mg
Rosuvastatin	10mg

* High cardiovascular risk:
•QRisk >10% in ten years
•CKD 3-5
•Type 1 Diabetes for >10 years or over age 40

** If statin not tolerated, follow <u>statin</u>
 <u>intolerance pathway</u> and consider <u>ezetimibe</u>
 10mg daily +/- <u>bempedoic acid</u> 180mg daily

Shared Decision-Making Resources



Benefits per 10,000 people taking statin for 5 years	Events avoided
Avoidance of major CVD events in patients with pre-existing CVD & a 2mmol/l reduction in LDL	1,000
Avoidance of major CVD events in patients with no pre-existing CVD & a 2mmol/l reduction in LDL	500

Adverse events per 10,000 people taking statin for 5 years	Adverse events
Myopathy	5
Haemorrhagic Strokes	5-10
Diabetes Cases	50-100

Shared decision-making resources:

- <u>BHF information on statins</u>
- <u>Heart UK: Information on statins</u>
- <u>NICE shared decision-making guide</u>

Atrial Fibrillation: stratification and management



althcare Assistants/other	 Gather information e.g. Up to date bloods, BP, weight, smoking status, run ChadsVasc, HASBLED, QRISK sc Self management e.g. Education (AF/stroke risk, bleeding risk, CVD risk reduction), signpost to shared de making resources. 					
propriately trained staff	Behaviour change e.g	Brief interventions a	nd signposting e.g. sm	oking, weight, diet, exe	rcise, alcohol	
1	Priority One Not on	Priority Two On anticoagulant &	Priority Three On Warfarin	Priority Four On DOAC	Priority Five On DOAC	
Stratification	anticoagulant Offer anticoagulant if indicated	antiplatelet/s <u>Review need for</u> antiplatelets	<u>Check TTR for</u> optimal control	Renal function >12m ago	Renal function <12m ago <u>Routine review</u>	
	innucateu	antiplatelets	optilla control	<u>review dosage</u>		
	 Optimise anticoagulation therapy and CVD risk reduction 1. Review: blood results, risk scores & symptoms 2. Initiate or optimise anticoagulant 					
Prescribing Clinician	 Initiate or optimise anticoagulant Consider switch to DOAC if poor control on warfarin Check adherence and review any side effects Review and mitigate bleeding risk: BP control, medication, alcohol, PPI CVD risk – optimise BP and lipid management, if required 					





71 year old retired teacher with long standing atrial fibrillation, hypertension and prior myocardial infarction (2015)

- Blood pressure was well controlled at last visit (over 18 months ago due to COVID-19)
- She is currently treated with aspirin 75mg daily, amlodipine 10mg daily, ramipril 5mg daily and atorvastatin 20mg daily
- She is highlighted as a priority one patient on the AF searches, as she is not currently anticoagulated to prevent stroke





- What can we monitor and manage remotely?
- What lifestyle advice should we provide?
- Does she need amendments to her drug treatment?
 - For AF
 - For BP
 - For cholesterol control
- Are there any other concerns?

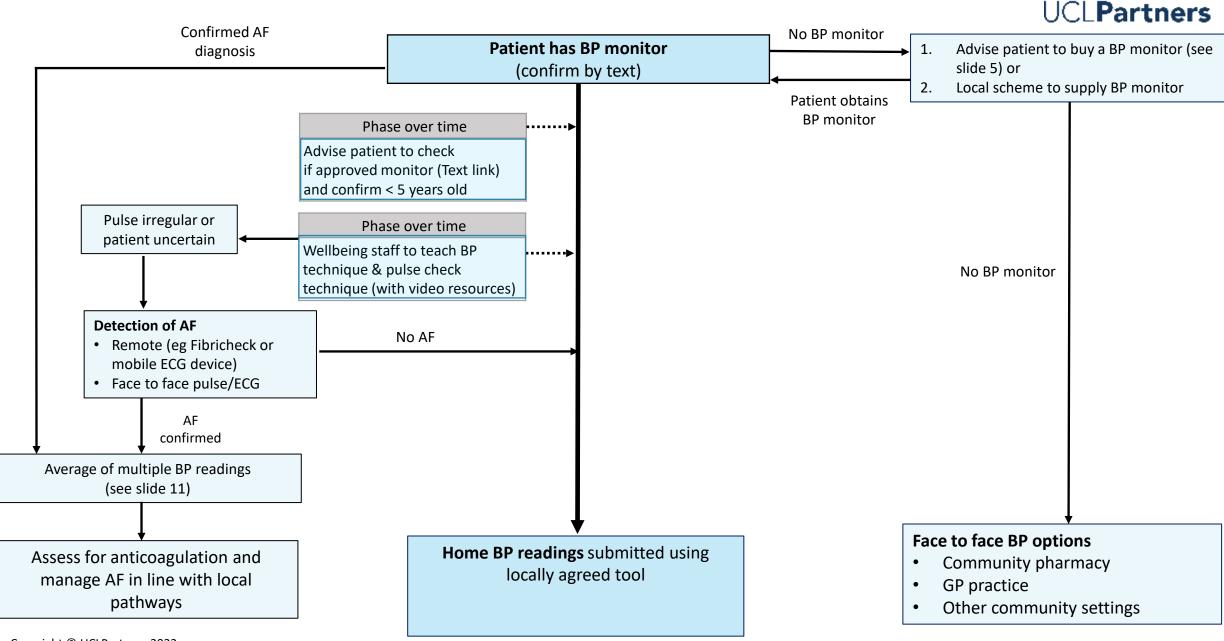
Sally



HCA – phone and video consultations and texts to share resources using the UCLPartners consultation scripts

- Asks about her understanding of AF, blood pressure and cholesterol
- Provides information and signposts *British Heart Foundation* websites to support education and self management
- Shares videos showing her how to measure BP and send in results activates AccuRx Florey for BP monitoring
- Shares videos on how to monitor heart rate and rhythm
- Asks how she has been coping throughout the pandemic and signposts to *EveryMindMatters* website for tips on mental wellbeing
- Collates information to support clinician consultation

Home Blood Pressure Monitoring Pathway



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HCA collates information to support clinical consultation following agreed protocol

- Average of home BP readings: 146/91mmHg
- Heart rate = 94bpm and irregular
- Calculates CHA₂DS₂VASc and HASBLED / ORBIT score
 - $CHA_2DS_2VASc = 4$
 - HASBLED score = 2 (1 if stop aspirin)
- Bodyweight: 76kg / BMI 27kg/m²
- Blood results
 - Serum creatinine = 132micromol/L
 - T chol: 4.6mmol/L, HDL: 0.9mmol/L; non-HDL: 3.7mmol/L
- Patient record shows that medication has been picked up at regular intervals over the past 9 months

Stroke Risk Assessment



Stroke Risk						
CHA ₂ DS ₂ VASc		CHA ₂ DS ₂ VASc Score	Number of AF-related strokes avoided per 1,000 AF patients treated with anticoagulant therapy per year*			
Congestive Heart failure	1					
Hypertension	1					
Age >75 years	2					
Diabetes	1	1	4			
Prior stroke/TIA	2	2	17			
Vascular disease	1	3	25			
Age 65-74 years	1	4	38			
Female	1	5	57			

Interpretation

- 1. Offer anticoagulation to all patients (male or female) with $CHA_2DS_2VASc \ge 2$
- 2. Consider anticoagulation in all men with $CHA_2DS_2VASc = 1$
- 3. Antiplatelet monotherapy (Aspirin/Clopidogrel) is not recommended for stroke prevention in AF

Bleeding Risk Assessment



Bleeding Risk (HASBLED)				Bleeding Risk - ORBIT				
HASBLED Score		HASBL ED	Number of major bleeds caused per	ORBIT Score**		ORBIT Score	Risk level	Number of major bleeds caused per
Uncontrolled hypertension (systolic >160mmHg)	1	Score	1,000 AF patients treated with anticoagulant	Haemoglobin <13 mg/dL for males and <12 mg/dL for females, or haematocrit <40% for	2			1,000 AF patients treated with anticoagulant
Abnormal liver function (Bili >2x ULN or AST/ALT/ALP >3x ULN	1		therapy per year*	males and <36% for females				therapy per year
Abnormal renal function	1	1	4	Age >74 years	1	0-2	Low	24
(Creat>200µmol/L, dialysis, transplant)		2	12		-	3	Medium	47
Prior stroke/TIA	1		4.5	Bleeding history - Any history of GI bleeding, intracranial bleeding,	2	4-7	High	81
History of major bleed or predisposition	1	3	15	or haemorrhagic stroke		4-7	підп	10
(anaemia)		4	21	GFR <60 mL/min/1.73 m2	1			
Labile INR (on warfarin (TTR<60%)	1			Treatment with antiplatelet	1			
Age >65 years	1			agents				
Medication usage predisposing to bleeding (Antiplatelets/ NSAIDS)	1			**NICE 2021 indicated that ORBIT is the best tool for bleeding risk assessment, other tools				
Alcohol (>8units/week)	1			may need to be used until it is embedded in clinical pathways and electronic systems				

Interpretation

- 1. HASBLED \geq 3 indicates a higher bleeding risk
- 2. Address modifiable bleeding risk factors to reduce HASBLED score e.g. lower BP, review concomitant drug therapy, reduce alcohol intake
- 3. Consider a proton pump inhibitor to reduce upper GI bleeding

Interpretation

- 1. Address modifiable bleeding risk factors to reduce bleeding risk e.g. lower BP, review concomitant drug therapy, reduce alcohol intake
- 2. Consider a proton pump inhibitor to reduce upper GI bleeding

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*Tables adapted from Y Javaid

*** European Heart Journal, Volume 36, Issue 46, 7 December 2015, Pages 3258–3264, https://doi.org/10.1093/eurheartj/ehv476





Prescribing Clinician – phone, video or face-to-face

- Reviews BP readings, blood results and scores
- Highlights lifestyle issues weight loss, diet and exercise refers for follow up by social prescriber / health and wellbeing link worker
- Asks if Sally has any concerns about or side effects with her current medication and if she is taking it regularly – explores adherence issues
- Discusses the need for anticoagulation in atrial fibrillation to prevent stroke

Offers DOAC, discusses benefits and risks, makes shared decision, ensures appropriate dosing and monitoring, refers for community pharmacy NMS

Stops the aspirin to reduce bleeding risk

- Other considerations for further follow up
 - Optimise BP control consider increasing ramipril dose
 - Optimise statin for secondary prevention aim for high dose high intensity statin (e.g. Atorvastatin 80mg daily

Initiating Direct Oral Anticoagulants (DOACs)*



	Action	Resource						
1	Check the patient has Non-Valvular AF and has no other contraindications to therapy	DOAC contraindicated if mechanical prosthetic valve or known moderate to severe mitral stenosis DOAC contraindicated if pre-existing clotting disorder, such antiphospholipid syndrome (APS) pregnant, breastfeeding or planning pregnancy, mechanical heart valves – seek specialist advice. For full list of contraindications see SmPCs at <u>www.medicines.org.uk</u>						
2	Check CHA ₂ DS ₂ VASc	Offer anticoagulation if $\underline{CHA_2DS_2VASc} \ge 2$ (consider if = 1 in men)						
3	 Check: Bloods for renal function, LFTs, clotting and FBC Bodyweight Creatinine Clearance (CrCl) 	Creatinine clearance calculation Dabigatran contraindicated if CrCl < 30ml/min Apixaban, Edoxaban, Rivaroxaban, are not recommended if CrCl < 15ml/min						
4	Check bleeding risk with HASBLED score or ORBIT score, in line with local guidance	Address modifiable risks identified by <u>HASBLED or ORBIT score</u> to reduce bleeding risk. Review other medication – <u>including antiplatelets</u> and NSAIDs; consider PPIs						
5	Shared Decision Making (SDM) - agree which DOAC to initiate. Correct choice of dose	DOAC dosing						
6	Counsel patient and agree a plan for follow up including monitoring blood tests	DOAC monitoring Provide written information, an anticoagulant alert card and point of contact should issues arise						
	*NICE guidance 2021 recommends DOACs first line. If DOAC is unsuitable, consider warfarin following local pathways for initiation & monitoring							

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DOACs: Calculating Creatinine Clearance



eGFR should not be used to guide dosing decisions for DOACs¹

Use actual bodyweight (within 1 year) to calculate Creatinine Clearance (CrCl)

• If weight < 50kg or > 120kg or if BMI >40 : seek specialist advice

Use renal function checked within last 3 months

Calculate CrCl using Cockcroft Gault equation	CrCl	Monitoring interval
 Be cautious with calculators integrated into GP IT systems as they may default to ideal bodyweight resulting in underdosing of DOAC 	>60ml/min	Annually
 Use <u>MDCalc</u> 	30-60ml/min	6-monthly
	<30ml/min	3-monthly

Adjust DOAC dose if necessary

See slide on DOAC dosing in NVAF

Anticoagulation in People Taking Antiplatelet Therapy



- Antiplatelet therapy is not recommended for stroke prevention in AF; oral anticoagulants should be used.
- Some patients with AF are on antiplatelet therapy as treatment for vascular disease. See guidance below

Indication for antiplatelets	Antiplatelet	Action when initiating anticoagulation for AF
Primary prevention of CVD	Antiplatelet monotherapy	Stop antiplatelet therapy (antiplatelet therapy not recommended for primary prevention of CVD)
 Secondary prevention of CVD Stroke / Transient Ischaemic Attack (TIA) Stable coronary heart disease (CHD) Peripheral arterial disease (PAD) 	Antiplatelet monotherapy or Low dose rivaroxaban with aspirin	Stop antiplatelet therapy Increase DOAC dose (to AF stroke prevention dose) and stop aspirin
Patients within 12 months of an ACS or stent placement (cardiac or vascular)	Aspirin plus clopidogrel, ticagrelor or prasugrel	Seek specialist advice to agree the preferred drug regimen. Triple therapy (dual antiplatelet plus anticoagulant) duration must be clearly defined.
Patients more than 12 months after an ACS or stent placement (cardiac or other vascular)	Antiplatelet monotherapy / dual antiplatelet therapy	Stop antiplatelet therapy, unless otherwise advised by specialist (check discharge summary)
	If dual antiplatelet required long-term	Seek specialist advice – do not initiate triple therapy without advice

When using an anticoagulant plus an antiplatelet – add a proton pump inhibitor (PPI)

Adapted from: <u>https://b-s-h.org.uk/guidelines/guidelines/oral-anticoagulation-with-warfarin-4th-edition/</u> Page 318-319 and <u>https://www.escardio.org/Guidelines/Clinical-Practice-Guidelines/Atrial-Fibrillation-Management</u> Page 61

Detection and Management of Hypertension in Patients with Atrial Fibrillation



Blood pressure should be checked in patients with AF to identify undiagnosed hypertension. If hypertension is suspected due to a high BP reading, the diagnosis should be confirmed using ABPM or home BP checks over 7 days.

Checking BP in patients with established hypertension:

- Patients <u>with</u> AF:
 - o Submit 2 BP readings each morning and evening over 4 days. Calculate the average systolic and diastolic values.

• Please refer to UCLP hypertension pathway for detailed guidance:

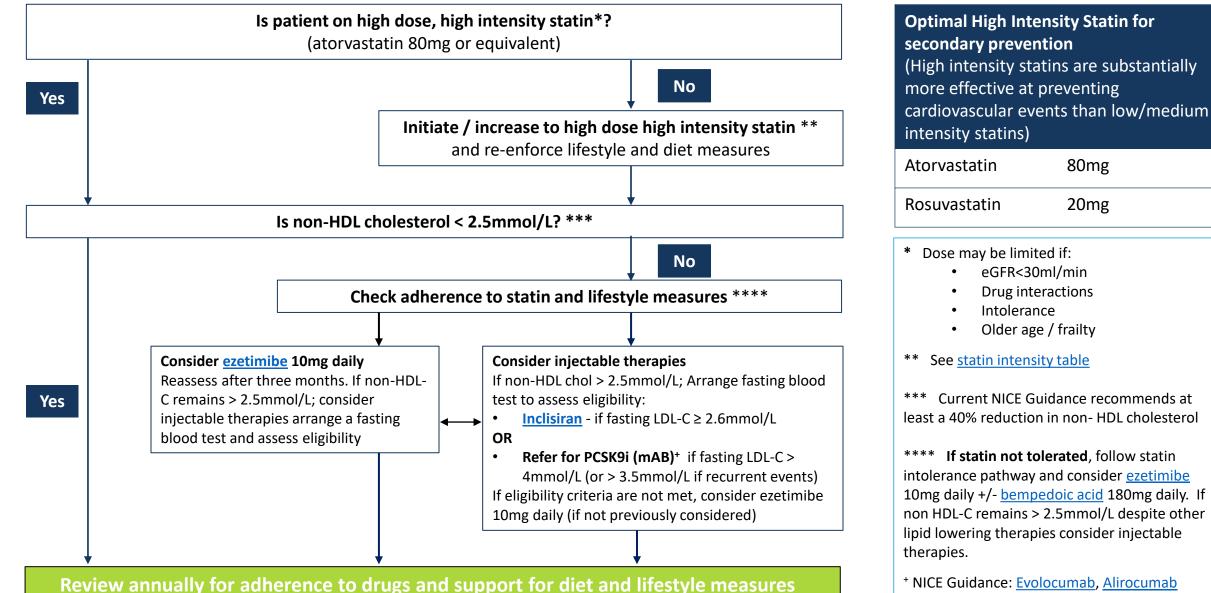
https://s31836.pcdn.co/wp-content/uploads/Hypertension-Framework_UCLPartners-LTCs-April-2021-v2.0.pdf

Optimisation Pathway for Secondary Prevention



80mg

20mg



Resources to support proactive care



UCLP Resources



- 1. Comprehensive search & stratification tools for EMIS and SystmOne
- 2. Protocols for HCA and similar roles to provide structured support for patient education, self management and behaviour change
- 3. Slide sets for clinicians focus on the *how to* of optimising clinical management in real world primary care
- 4. Workforce training framework
- 5. Implementation guidance
- 6. Case studies
- 7. Digital resources for staff and patients
 - Understanding your condition
 - How to check your BP, check your feet, identify red flags etc
 - New technologies eg Healthy.io, fibricheck
 - Brief interventions eg smoking, diet, activity
 - Videos eg running the search tools

www.uclpartners.com/proactive-care/

Resources for clinicians – supporting co-morbidity management



UCLPartners

UCLPartners Proactive Care Framework:

Atrial Fibrillation – managing AF and cardiovascular risk

UCLPartners Proactive Care Framework

Hypertension – managing high blood pressure and cardiovascular risk April 2021

UCLPartners

Blood pressure

abete

Cholesterol



UCLPartners Proactive Care Framework:

Lipid management

BP & Lipid management included in pathways for AF, BP, cholesterol and T2 Diabetes



UCLPartners Proactive Care Framework:

Type 2 Diabetes – managing diabetes and cardiovascular risk

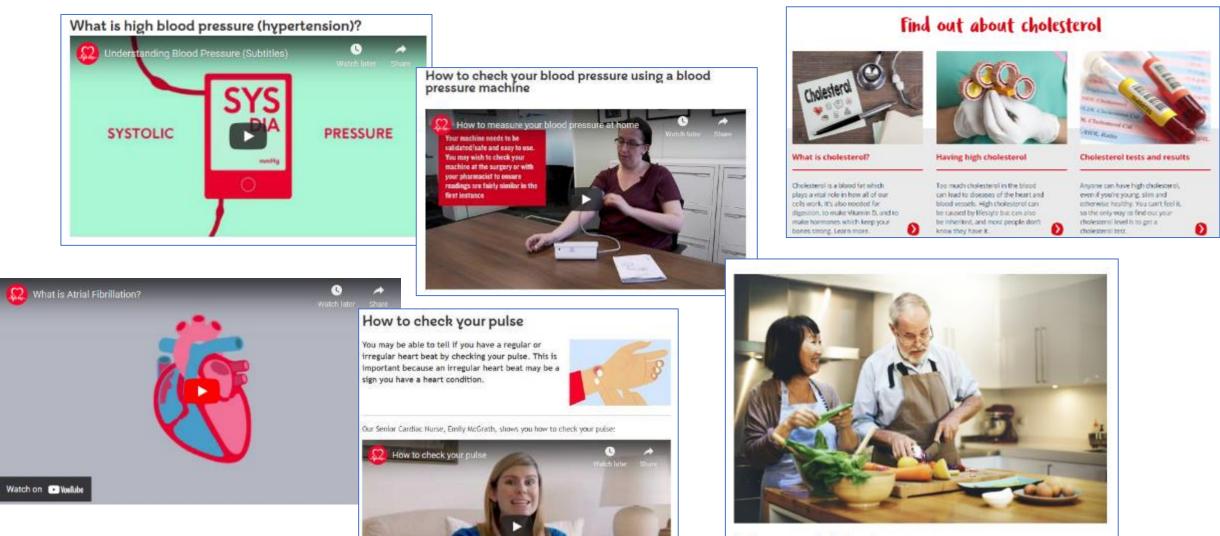
April 2021

Resources for patients – supporting education and self-management

Emily McGrath

Senior Cardiac Nurse

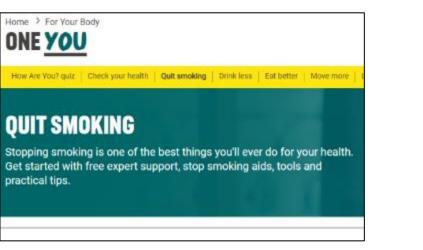


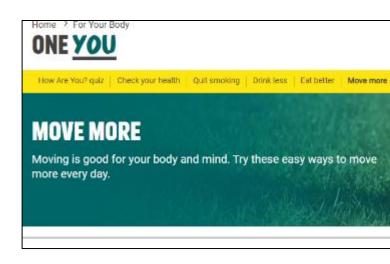


Reduce your cholesterol Our experts answer the 5 most common questions to help you reduce your cholesterol.

Resources to support behaviour change









How Are You? putz Check your health Outt smoking Drink less Eat better Move more Lose we

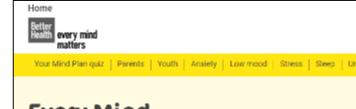
EAT BETTER

What you eat, and how much, is so important for your health and your waistline. Try these easy ways to eat better every day.

EASY MEALS APP

Our free Easy Meals app is a great way to eat foods that are healthier for you. Search recipes by meal time and create shopping lists.

Get the Easy Meals app



Every Mind Matters

Looking after your mental health

Having good mental health helps us relax more, achieve more and enjo advice and practical tips to help you look after your mental health and

Resources to support remote management









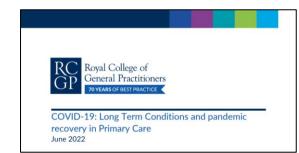


National uptake of the UCLP Proactive Care Frameworks

- 1. Widely welcomed by GPs and primary care teams:
 - Over 8,000 downloads of the search tools and over 40,000 unique website visits
- 2. Adopted into NHS England's <u>NHS@Home</u> & implementation underway in 14 Integrated Care Systems
- 3. <u>National Blood Pressure Optimisation Programme</u> prioritises implementation of the UCLP Proactive Care Framework for Hypertension by all 15 AHSNs
- 4. <u>RCGP's Long Term Condition Recovery Guidance June 2022</u> recommends UCLPartners Proactive Care Frameworks to support prioritisation

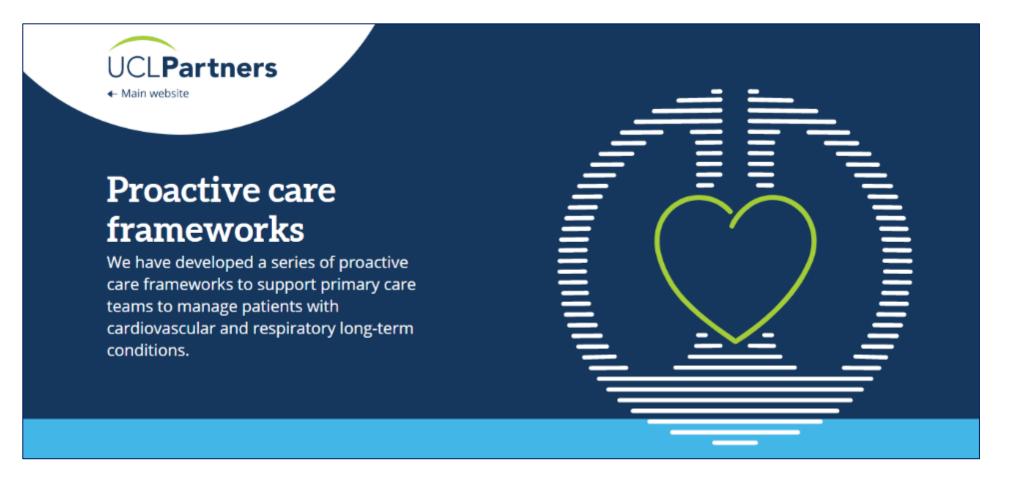






Frameworks to support primary care transformation





www.uclpartners.com/proactive-care



Thank you

For more information please contact:

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www.uclpartners.com @uclpartners