

# The RCGP Curriculum

## The Curriculum Topic Guides

Super-Condensed Topic Guides 2021



## Cardiovascular Health

### The Role of the GP and emerging issues in primary care

- Work with patients to promote cardiovascular health including making healthy lifestyle choices
- Engage in disease prevention activities including identifying and managing risk factors for cardiovascular disease and advising on screening
- Diagnose and holistically manage common, important, and emergency cardiovascular conditions, taking into account social and cultural factors
- Monitor and manage the care of people with long-term cardiovascular conditions such as hypertension, chronic heart failure or AF
- Understand, apply, and communicate key research findings that influence cardiovascular risk and disease
- Understand the influence of an ageing population on cardiovascular health and services.

### Knowledge and Skills Self-Assessment Guide

#### Symptoms and Signs

- Cardiac murmurs
- Chest pain
- Circulatory symptoms of ischaemia, thrombosis, chronic arterial and venous insufficiency
- Dyspnoea
- Oedema
- Palpitations
- Syncope, dizziness and collapse including non-cardiovascular causes
- Symptoms and signs of stroke/Transient Ischaemic Attack (TIA).

### **Common and Important Conditions**

- Acute cardiovascular problems including cardiac arrest, acute coronary syndrome, acute myocardial infarct, acute left ventricular failure, dissecting aneurysms, severe hypertension and life-threatening arrhythmias, cardiogenic shock, acute ischaemia of limbs and gut, TIA and stroke
- Arrhythmias including conduction defects such as atrial fibrillation and flutter, heart block, supraventricular tachycardia, ventricular rhythm abnormalities
- Cardiomyopathies: primary and acquired, including dilated, hypertrophic obstructive
- Cardiovascular conditions for which anticoagulation may be relevant such as Atrial Fibrillation (AF), myocardial ischaemia, peripheral vascular disease and TIA/stroke (including heparin, thrombolysis indications, oral anticoagulation)
- Cerebral disease for which cardiovascular risk factors are important e.g. stroke, vascular dementia (see also Topic Guide 4.17 Neurology)
- Circulation disorders including: arterial problems such as peripheral vascular disease, vasculitis, aneurysms (cerebral, aortic and peripheral); and venous problems such as venous thromboembolism, pulmonary embolism, Raynaud's disease, varicose veins, venous and arterial ulcers
- Complications and malfunction of pacemakers relevant to primary care
- Congenital heart disease such as coarctation of the aorta, Ventricular Septal Defect (VSD), Atrial Septal Defect (ASD), Patent Ductus Arteriosus (PDA) and presentation of these both in children and adults
- Coronary heart disease including complications such as mural thrombus, ventricular aneurysm, and rhythm disturbance
- Drug-induced heart disease (e.g. secondary to cancer treatment with chemotherapy/ radiotherapy, recreational drugs)
- Heart failure: acute and chronic including left ventricular dysfunction, right heart failure, and cor pulmonale
- Hypertension: essential (and its classification into stages), secondary, and malignant
- Indications for and monitoring of commonly used drugs such as antihypertensive drugs, anticoagulants and statins
- Infections such as viral myocarditis, infective endocarditis, pericarditis, rheumatic fever and complications
- Pulmonary hypertension: primary and secondary to underlying causes such as fibrotic lung disease and recurrent pulmonary emboli
- Risk assessment tools such as QRISK, CHA<sub>2</sub>D<sub>2</sub>SVASc.
- Risk factors for coronary heart disease and other thromboembolic diseases such as lipid disorders, diabetes, hypertension
- Valvular problems such as mitral, tricuspid, pulmonary and aortic stenosis and regurgitation

### **Examinations and Procedures**

- Cardiovascular system examination

- Blood pressure monitoring
- Pulse oximetry
- Use of emergency equipment, including defibrillator, and oxygen delivery
- Emergency cardio-pulmonary resuscitation.

### Investigations

- Current risk assessment tools (eg CHA<sub>2</sub>D<sub>2</sub>SVASc and HASBLED for atrial fibrillation, QRISK/ASSIGN for Coronary Heart Disease)
- Relevant blood investigations such as cardiac enzymes, natriuretic peptides, or D-dimer
- Secondary care interventions such as coronary angiography and stents, perfusion scanning, and CT scans
- Specific cardiac investigations including home and ambulatory BP monitoring, electrocardiogram (ECG), exercise ECG, 24 hour and event monitoring ECGs, echocardiography, venous dopplers and Ankle Brachial Pressure Index (ABPI) measurement.

### How this might be tested in MRCGP

#### AKT

- Interpreting ECG tracings
- Adverse drug effects of anti-hypertensives
- Genetics of familial hypercholesterolaemia.

#### RCA

- Man is concerned that he may have heart disease having experienced chest pain when he exercises at the gym
- Woman with well-controlled heart failure has increasing exertional dyspnoea over the past fortnight
- Father is concerned about sudden death in young athletes and requests a routine ECG for his 12-year-old son who has joined a running club.

#### WPBA

- Learning log reflecting on having to explain a pacemaker to a patient who has not understood the consultant's explanation
- Log entry about the logistics and value of the practice coronary heart disease clinic
- Consultation Observation Tool (COT) about advice for a man requesting a calcium score after a private medical examination when you are unsure about the evidence for this
- CEPS about performing CPR on a collapsed patient.

# How to learn this topic

This section describes *examples* of opportunities for learning.  
We recognise that Covid-19 restrictions have significantly affected their accessibility

## Other relevant specialties

- Ambulance service: pre-hospital care e.g. acute MI, collapse
- Cardiovascular rehabilitation programmes led by physiotherapists
- Diabetes, endocrinology, lipid clinics
- Paediatrics and transitional care
- Public health: population measures to address cardiovascular risk factors
- Palliative care.



## Acute

- Seeing emergency presentations and referrals from primary care
- Being a member of the 'Arrest Team'; use of emergency equipment
- Attending acute clinics e.g. Rapid Access TIA/chest pain
- Seeing procedures e.g. angioplasty
- Following the patient journey e.g. via ward rounds, MDT meetings, discharge planning.

## Primary Care

- Day to day practice
- Out of hours in GP
- In-house cardiovascular clinics e.g. hypertension

## Core themes

- **Communication and Consultation** – person centred, culturally sensitive approaches to heart disease & risk factors; communicating risk e.g. QRISK, anticoagulation
- **The normal and the abnormal** – impact of CVD on life, work, driving etc; atypical presentations e.g. of serious chest pain
- **Prescribing** – safety; polypharmacy
- **Teamworking** – care transition from paed to adult; involvement of multiple specialties
- **Health promotion & prevention** – “lifestyle” risk factors; social determinants of health
- **Medico-legal/Ethics** – drug induced heart disease; resource allocation; patient autonomy versus unhealthy behaviours.

## Community/MDT

- Community specialist teams e.g. heart failure, cardiac rehab
- Community weight management and smoking cessation services
- Outpatients/specialised clinics e.g. vascular, arrhythmias, cardiac imaging and other investigations.

## Tips

- Audit/QIP
- Significant Event Analysis
- Clinical governance
- Risk Assessment
- Dr as teacher
- Leadership
- BNF
- NICE guidelines