

## 2 Cardiovascular System

2.1 Positive inotropic drugs		Primary Care	Acute/ Specialist Services
	Digoxin	✓	✓
	Digoxin specific antibody ( DigiFab <sup>®</sup> )		✓

2.2 Diuretics		Primary Care	Acute/ Specialist Services
<b>2.2.1 Thiazides and related diuretics</b>			
	Indapamide (1 <sup>st</sup> Line)	✓	✓
	Bendroflumethiazide	✓	✓
	Metolazone	⊕	✓
<b>2.2.2 Loop Diuretics</b>			
	Furosemide (1 <sup>st</sup> Line)	✓	✓
	Bumetanide (2 <sup>nd</sup> Line)	✓	✓
<b>2.2.3 Potassium-sparing diuretics</b>			
	Spironolactone (1 <sup>st</sup> Line)	✓	✓
	Eplerenone (2 <sup>nd</sup> Line)	✓	✓
<b>2.2.4 Potassium-sparing diuretics with other diuretics</b>			
	Co-amilofruse	✓	✓
<b>Comment</b> Please specify strength of Co-amilofruse.			
<b>2.2.5 Osmotic Diuretics</b>			
	Mannitol		✓
<b>Comment</b> Diuretics should be prescribed separately except for patients with poor compliance, where combination products may be indicated. Potassium containing diuretic combinations: The majority of patients do not require potassium supplementation. For those patients who may require potassium supplements, potassium-sparing diuretics should be used. Potassium containing diuretics do not contain adequate amounts of potassium to match the patients' requirements and are therefore not advised for use.			

Key ✓ Initiate and continue ⊕ Continue where appropriate.

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2.3 Anti-arrhythmic Drugs		Primary Care	Acute/ Specialist Services
	Adenosine		✓
	Amiodarone	⊕	✓
	Disopyramide	⊕	✓
	Dronedarone	⊕	✓
	Flecainide	⊕	✓
	Lidocaine [Lignocaine]		✓
	Propafenone		✓
	Verapamil (see section 2.6)	⊕	✓
<b>Comment</b> For Hypertension guidance, Please refer to NICE Hypertension Guidance <a href="http://guidance.nice.org.uk/CG127">http://guidance.nice.org.uk/CG127</a> and the British Hypertension Society			

2.4 Beta-Blockers		Primary Care	Acute/ Specialist Services
	Bisoprolol ( <b>1<sup>st</sup> Line</b> )	✓	✓
	Atenolol	✓	✓
	Carvedilol	⊕	✓
	Esmolol (I.V. for arrhythmia)		✓
	Labetalol	⊕	✓
	Metoprolol	✓	✓
	Nebivolol	⊕	✓
	Propranolol (see section 4.1.2)	✓	✓

2.5 Drugs affecting the renin-angiotensin system and some other antihypertensive drugs		Primary Care	Acute/ Specialist Services
<b>2.5.1 Vasodilator antihypertensive drugs</b>			
	Hydralazine	⊕	✓
<b>Pulmonary Hypertension</b>			
	Macitentan (Opsumit <sup>®</sup> ) (Continuation of treatment from tertiary centres)	⊕	⊕
	Riociguat f/c tablets (Adempas <sup>®</sup> ) (Continuation of treatment from tertiary centres)	⊕	⊕
	Sildenafil (Revatio <sup>®</sup> ) (Continuation of treatment from tertiary centres)	⊕	⊕

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2.5.2 Centrally acting antihypertensive drugs			
	Methyldopa	⊕	✓
2.5.4 Alpha-adrenoceptor blocking drugs			
	Doxazosin ( <b>Standard release tablets ONLY</b> )	✓	✓
2.5.5.1 Angiotensin-converting enzyme inhibitors			
	Lisinopril	✓	✓
	Perindopril erbumine	✓	✓
	Ramipril	✓	✓
2.5.5.2 Angiotensin-II receptor antagonists			
	Candesartan ( <b>1<sup>st</sup> Line</b> )	✓	✓
	Valsartan ( <b>2<sup>nd</sup> Line</b> )	✓	✓
	Irbesartan	✓	✓
	Losartan	✓	✓
	Sacubitril/valsartan (Entresto <sup>®</sup> ) - <i>as per local guidance</i>	⊕	✓

2.6 Nitrates, Calcium channel blockers, and other antianginal drugs	Primary Care	Acute/ Specialist Services	
<p><b>Comment:</b> Products marked with an * are available as both standard release and sustained release preparations. Sustained release preparations may be produced by many different manufacturers and may not have the same bioavailabilities, therefore, these products should be prescribed by brand name (the locally recommended brands are specified). Standard release preparations may be prescribed generically.</p>			
2.6.1 Nitrates			
	Glyceryl Trinitrate	✓	✓
<p><b>Comment:</b> Patches not recommended due to tolerance problems</p>			
	Isosorbide Mononitrate	✓	✓
2.6.2 Calcium-channel blockers			
Dihydropyridines			
	Amlodipine	✓	✓
	Felodipine	✓	✓
Rate-limiting			
	*Diltiazem (Tildiem <sup>®</sup> LA, Tildiem Retard <sup>®</sup> )	✓	✓
	Verapamil	✓	✓

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Other			
	Ivabradine -3 <sup>rd</sup> line after beta-blockers & diltiazem for IHD, Heart Failure as per SMC guidance	✓	✓
	Nicorandil	✓	✓
2.6.4.1 Peripheral vasodilators			
	Naftidrofuryl	✓	✓
Sodium Glucose Co-Transporter 2 Inhibitors			
	Dapagliflozin	⊕	✓
<b>Comment:</b> Dapagliflozin is approved as an add-on for the treatment of symptomatic chronic heart failure with reduced ejection fraction in patients who are on optimised therapy but remain symptomatic. To be prescribed in Primary Care on the recommendation of a Heart Failure specialist.			

2.7 Sympathomimetics	Primary Care	Acute/ Specialist Services
2.7.1 Inotropic Sympathomimetics		
	Dobutamine	✓
	Dopamine	✓
	Dopexamine	✓
2.7.2 Vasoconstrictor sympathomimetics		
	Midodrine	⊕
	Noradrenaline [Norepinephrine]	✓
2.7.3 Cardiopulmonary resuscitation		
	Adrenaline[Epinephrine]	✓

2.8 Anticoagulants and Protamine	Primary Care	Acute/ Specialist Services
2.8.1 Parenteral anticoagulants		
	Enoxaparin	✓
	Fondaparinux sodium inj. (to be used with guidance)	✓
	Heparin	✓

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### 2.8.2 Oral anticoagulants

	Warfarin (1 <sup>st</sup> Line for AF)	✓	✓
	Edoxaban (1 <sup>st</sup> Line DOAC for AF) – Also see <a href="#">Direct Oral Anticoagulants for Stroke Risk Reduction in Atrial Fibrillation</a>	✓	✓
	Rivaroxaban (1 <sup>st</sup> Line for DVT & PE)	✓	✓
	Apixaban – (follow SMC guidance)	✓	✓
	Phenindione		✓
<b>Antidotes and Chelators</b>			
	Andexanet alfa		✓
<b>Comment:</b> To be prescribed in line with local protocol			
<b>2.8.3 Protamine Sulfate</b>			
	Protamine		✓

2.9 Antiplatelet Drugs		Primary Care	Acute/ Specialist Services
	Aspirin	✓	✓
	Clopidogrel	✓	✓
	Prasugrel – ( <i>For clopidogrel intolerance, stent thrombosis on clopidogrel or for continuation of therapy recommended by tertiary centre</i> )	⊕	✓
	Ticagrelor – <b>Specialist initiation only</b>	⊕	✓
<b>Comment</b> Ticagrelor – Continuation of treatment initiated in a tertiary centre ACS patients intolerant of clopidogrel Stent thrombosis while on clopidogrel Consultant cardiologist initiation for ACS patients with positive troponins			
	Tirofiban		✓

2.10 Fibrinolytics		Primary Care	Acute/ Specialist Services
	Alteplase ( For Ischaemic Stroke & For Life Threatening P.E)		✓
	Tenecteplase (For ST Elevation M.I.)		✓

2.11 Antifibrinolytics		Primary Care	Acute/ Specialist Services
	Etamsylate [Ethamsylate]		✓
	Tranexamic Acid	✓	✓

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2.12 Lipid-regulating Drugs		Primary Care	Acute/ Specialist Services
<b>Comment</b> Ensure that ALL Lipid-regulating drugs are prescribed in accordance with <a href="#">Forth Valley Lipid Lowering Guidelines</a>			
<b>Statins</b>			
	Atorvastatin (1 <sup>st</sup> line)	✓	✓
	Simvastatin (2 <sup>nd</sup> Line)	✓	✓
<b>Comment</b> Chewable Atorvastatin tablets not to be prescribed			
	Pravastatin	✓	✓
	Rosuvastatin	✓	✓
<b>Fibrates</b>			
	Fenofibrate (1 <sup>st</sup> Line)	⊕	✓
	Bezafibrate (2 <sup>nd</sup> Line)	⊕	✓
<b>Others</b>			
	Evolocumab (1 <sup>st</sup> Line)	⊕	✓
	Alirocumab (2 <sup>nd</sup> Line)	⊕	✓
	Ezetimibe	✓	✓

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