

## Chronic Coronary Syndrome (Previously Known as Stable Angina) – Management

### Manage cardiovascular risk factors and other co morbidities

- Diabetes, hypertension, anaemia, hyperthyroidism, hyperlipidaemia
- Hypertension- keep BP <130/80 in line with ESC<sup>1</sup>

### Pharmacological Management

#### To alleviate symptoms

##### Sublingual GTN (when needed)<sup>2</sup> to **ALL** Patients:

- Acute relief of angina symptoms/or before exertion
- Repeat dose after 5 minutes if pain has not gone
- Call emergency services if pain has not gone after 5 minutes of second dose
- If attacks occur more than twice a week, regular therapy is required and should be introduced in a step-wise manner according to response (*See below*)

##### 1st Line Therapy (see page 2)

- **Beta blocker** AND/OR
- **Calcium channel blocker (CCB)**

Consider combining a Beta blocker with a Dihydropyridine CCB. Where a Beta blocker is contraindicated or not tolerated **ONLY** then consider a Non-Dihydropyridine CCB (Diltiazem/Verapamil) on its own.

##### If beta blockers and CCB are contraindicated /not tolerated:

##### 2<sup>nd</sup> line therapy (see page 2)

- **Long lasting nitrate** AND/OR
- **Nicorandil**

##### If symptoms uncontrolled on dual /maximum tolerated doses:

##### 3<sup>rd</sup> line therapy - referral to cardiologist (see page 2)

- Ivabradine (Amber-G)
- Ranolazine (Amber-G)

#### Consider referral to cardiologist

- Symptom control is poor on the maximum licensed or tolerated doses or on two combined drugs
- There are several risk factors or a strong family history
- There are problems with employment or life insurance

#### Drugs for Secondary Prevention

##### (1) Antiplatelet<sup>3</sup>

- Aspirin 75mg daily +/- PPI taking into account bleeding risk and co-morbidities
- Clopidogrel 75mg daily if Aspirin not tolerated. People with Stroke or Peripheral Arterial Disease should continue Clopidogrel rather than aspirin.

Note: Clopidogrel does not have a license for stable angina)

##### *Stable angina with elective coronary stenting:*

- Bare stent: Clopidogrel AND Aspirin 75mg daily for 1 month then Aspirin 75mg only
- Drug-eluting stents - Clopidogrel AND Aspirin 75mg daily for up to 12 months, then Aspirin 75mg only

(2) **Statin** Refer to NHS Summary of national guidance for lipid management for primary and secondary prevention of CVD<sup>4</sup>

##### (3) **ACE Inhibitor**

- Consider the benefits of treatment with an ACE-I for patients with stable angina and diabetes<sup>5</sup> or left ventricular systolic dysfunction<sup>6</sup>.
- Offer or continue ACE-I for other conditions e.g. heart failure, hypertension.

Offer treatment of high blood pressure in line with the Barnsley Antihypertensive Medication Guideline<sup>7</sup>

#### Provide patient information and advice

##### • **Lifestyle Advice**

- Increase physical activity within
- Stop smoking
- Follow a Mediterranean diet
- Weight control
- Consumption of fish oils rich in omega-3 fatty acids

##### • **Driving - group 1 cars and motorcycles**

Must not drive when symptoms occur:

- At rest
- With emotion
- At the wheel

Driving may resume after satisfactory symptom control. (Need not notify DVLA; see DVLA guidelines for group 2 bus and lorry as needed)

##### • **Work**

Most people continue their work. Heavy manual workers may need to alter their profession.

##### • **Sexual activity**

- Unlikely to precipitate an episode of angina if patient can briskly climb two flights of stairs
- GTN taken immediately before Intercourse if sexual activity precipitates angina
- Phosphodiesterase type 5 inhibitors are contraindicated with long acting nitrates or nicorandil.

#### Patient follow-up and rehabilitation

- Review every 6 months to 1 year

# Drugs to Alleviate Stable Angina Symptoms: Detailed Drug Information

-Always reassess every 2-4 weeks after initiating or changing drug therapy<sup>2</sup>  
 - Titrate according to symptoms and heart rate for full anti-anginal effects

## 1<sup>st</sup> Line Therapy

Consider combining a beta-blocker with a Dihydropyridine CCB if symptoms not adequately controlled on a beta-blocker alone:

### Beta blockers (one of the following):

Tailor doses to ensure symptom control /maximum beta blockade/ resting heart rate of 55-60 beats/min:

- **Bisoprolol 5-20mg ONCE daily**
- **Atenolol 25-100mg daily** (may prefer to give as divided doses e.g. 50mg twice daily due to plasma half-life of 6-9 hours)
- **Metoprolol 50-100mg TWICE daily**<sup>6,8</sup>

AND

### Calcium Channel Blockers – Dihydropyridines (one of the following):

- **Long acting Felodipine 5-10mg daily**
- **Amlodipine 5-10mg daily**
  - Safe to combine Dihydropyridine CCBs with Beta blockers

### Calcium Channel Blockers: Non-Dihydropyridines:

- **Diltiazem prescribe by brand** as ONCE daily: Zemtard® or TWICE daily: Angitil SR®. (Tildiem® three times daily preparation should only be initiated in 'exceptional circumstances' where there is a clinical need)
- Verapamil:** For consideration by Secondary Care only following appropriate clinical assessment.

**(Avoid use in combination with beta blockers)**

OR if a beta blocker is not tolerated/contra-indicated, only then consider a heart rate-lowering CCB

## 2<sup>nd</sup> Line Therapy

If beta blockers or CCB contraindicated or not tolerated/symptoms are not adequately controlled then consider mono/combinational therapy with:

### Long Lasting Nitrate (as mono/combinational therapy):

- **Isosorbide Mononitrate 10-60mg TWICE daily** by asymmetric dosing e.g. Take ONE tablet at 8AM and ONE at 2PM to extend the nitrate-free period
- If there is a specific reason to use a modified release ONCE DAILY preparation e.g. headache, concordance issues, then prescribe Monomil XL® or Chemydur XL® and document reason

AND/OR

### Nicorandil:

- Consider only as 2<sup>nd</sup> line treatment due to increased risk of serious skin, mucosal and eye ulceration, including GI Ulcer<sup>9</sup>
- **10-20mg TWICE daily** (5mg TWICE daily if headache); up to 40mg TWICE daily

## 3<sup>rd</sup> Line Therapy

If symptoms uncontrolled on TWO anti-anginal therapies on maximum tolerated dose:

### Cardiologist referral for:

- **Ivabradine** (For information only – Amber-G on Traffic Light List):- Started only if resting HR at least 70 bpm
  - When combining Ivabradine with a CCB, use a **Dihydropyridine CCB ONLY** e.g. Amlodipine, long acting felodipine.
  - Monitor for AF/Bradycardia. Carefully consider if benefits outweigh risks if patient develops AF or becomes bradycardic. Consider stopping if resting heart rate remains below 50 bpm or symptoms of bradycardia persist.
  - Consider stopping if limited or no symptom control after 3 months<sup>10</sup>
- **Ranolazine** (For information only – Amber-G on Traffic Light List):- Useful in patients where options are limited by bradycardia or hypotension

Consider adding a third anti-anginal drug not from algorithm above only when<sup>5</sup>:

- 1) The person's symptoms are not satisfactorily controlled with two anti-anginal drugs

**AND**

- 2) The person is waiting for revascularisation or revascularisation is not considered appropriate or acceptable

