Heart Failure Prescribing Guidelines



Carvedilol in the Treatment of Heart Failure

Applicable to:

 All patients diagnosed with heart failure and commenced on carvedilol.

Patients not discharged on carvedilol or an alternative betablocker:

- Confirm that there is a contraindication to beta-blocker therapy
- If no contraindication refer to the PCT heart failure specialist service for assessment.

Patients discharged on a beta-blocker other than carvedilol:

- If discharged on bisoprolol, or nebivolol, ensure that they are on the appropriate, or maximum tolerated dose for heart failure.
 - Bisoprolol 10mg Daily
 - Nebivolol 10mg Daily
- Patients initiated on a beta-blocker prior to developing heart failure, may be continued on their original beta-blocker even if it is not specifically indicated for heart failure. If concerned contact the PCT heart failure specialist service for advice.
- Maintain discharge medication and refer to the PCT heart failure specialist service if patient's symptoms are uncontrolled.

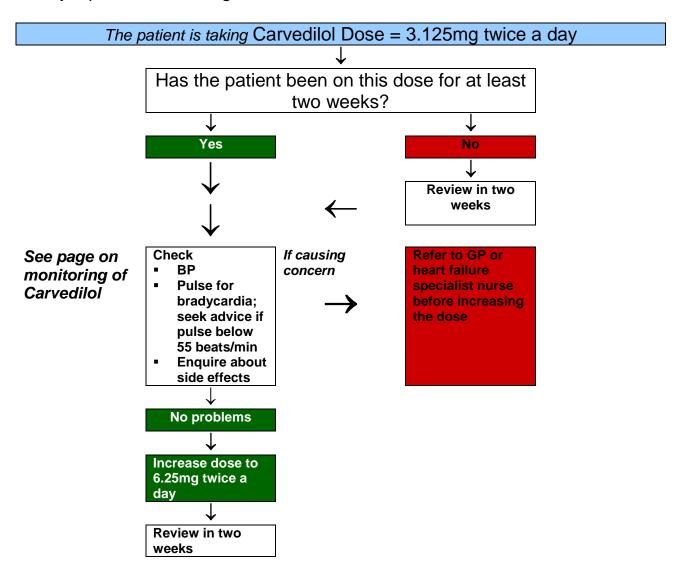


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Initiation dose 3.125mg twice a day (Patients may be discharged on higher doses)

Treatment dose = 25mg twice a day / 50mg twice a day if patient over 85kg

Patients should be have their dose titrated to 25mg twice a day / 50mg twice a day if patient over 85kg or to the maximum tolerated dose.



The patient is taking Carvedilol Dose = 6.25mg twice a day Has the patient been on this dose for at least two weeks? Yes No Review in two weeks Check If causing Refer to GP or See page on BP concern heart failure monitoring of Pulse for specialist nurse Carvedilol bradycardia; before increasing seek advice if the dose Query pulse below decreasing the 55 beats/min dose to 3.125mg **Enquire about** twice day side effects No problems Increase dose to 12.5mg twice a day

Review in 2 weeks

The patient is taking Carvedilol Dose = 12.5mg twice a day Has the patient been on this dose for at least two weeks or more? Yes No Review in two weeks Check If causing Refer to GP or See page on BP concern heart failure monitoring of Pulse for specialist nurse carvedilol bradycardia; before increasing seek advice if the dose. pulse below **Query decreasing** 55 beats/min the dose to **Enquire about** 6.25mg twice a side effects day No problems Increase dose to 25mg twice a day Review in two

weeks

The patient is taking Carvedilol Dose = 25mg twice a day Has the patient been on this dose for two weeks or more? Yes No Review in 2 weeks Check If causing Refer to GP or See page on BP heart failure concern monitoring of Pulse for specialist nurse carvedilol bradycardia; before increasing seek advice if the dose. pulse below **Query decreasing** 55 beats/min the dose to **Enquire about** 12.5mg twice a side effects day No problems If patient under Over 85 Kg No 85kg $\rightarrow \rightarrow \rightarrow \rightarrow$ Maintain on dose Review in two and review in 6 weeks consider months increasing dose to 50mg twice a

day

The patient is taking Carvedilol Dose = 25mg twice a day Has the patient been on this dose for at least two weeks or more? The patient is over 85kg Yes No No The patient has The patient not been on is under this dose for 85kg least than two weeks Review in 2 Dose to weeks remain at 25 mg twice a day Check See page Refer to GP or lf BP causing heart failure Pulse for concern specialist monitoring bradycardia; nurse before of seek advice if increasing the carvedilol pulse below 55 dose. beats/min Query **Enquire about** decreasing the dose to 12.5mg side effects twice a day No problems Increase dose to 50mg twice a day Review in two weeks Check Refer to GP or BP causing heart failure Pulse for concern specialist nurse bradycardia; before increasing seek advice if the dose. pulse below 55 **Query decreasing** beats/min the dose to 25mg **Enquire about** twice a day side effects No problems Maintain on dose and review in 6 months Monitoring of Carvedilol prior to increasing dose.

Review date August 2013

The information given here is incomplete please refer to the current BNF for comprehensive details.

1. BP

- < 120/80 Do not increase carvedilol dose, refer to GP or heart failure specialist nurse.</p>
- > 160/100 Refer to doctor for advice
- For hypertensive patients continue to monitor blood pressure until the patient is stabilised at the maintenance dose 25mg twice a day (50mg twice a day in over 85kg) or the maximum tolerated dose.
- If the patient remains hypertensive at this dose refer for advice or consult the Rotherham PCT Hypertension Guidelines.

2. Side Effects

Bradycardia

Seek advice if pulse below 55 beats/min

Respiratory

Enquire about any respiratory symptoms; review/seek advice if the patient reports any respiratory problems (shortness of breath/ wheezing).

Pain in hands/fingers etc

Beta-blockers can cause a peripheral vasoconstriction; review/seek advice if the patient reports pain in fingers hands etc.

Other Side Effects

- Fatigue.
- Headache, GI disturbances, dry mouth, dry eyes, eye irritation, disturbed vision, allergic skin reactions.
- See BNF

3. Drug Interactions

NSAIDS

 Avoid if possible. Confirm with GP that it is necessary to continue this treatment. NSAID use in heart failure patients results in a deterioration of symptom control and higher admissions rate.

Anti-arrhythmics

- Avoid, will cause increased myocardial depression.
- Seek further advice before increasing the dose if the patients is also taking an anti-arrhythmic

Calcium-channel blockers

 Avoid diltiazem and verapamil due to increased risk of severe bradycardia heart block and possibility of worsening heart failure.

Thiazide diuretics

Avoid, can precipitate diabetes when used in conjunction with a beta-blocker

Respiratory medication

Confirm beta-blocker has not caused or exacerbated symptoms.