

Teaching Care Trust Plus





#### Teaching Primary Care Trust

### Management of COPD in Primary Care

#### Step 1

### **Symptom Management**

Start on Salbutamol MDI or Ipratropium MDI when required Review symptoms after 4 weeks (ask questions in panel 8). If not controlled move to Step 2. Remember to confirm diagnosis.

### Step 2

### FEV<sub>1</sub>≥50% of predicted

#### Add long acting therapy and review in 4 weeks

#### **OPTION 1**

Easyhaler® Formoterol One inhalation twice daily

Atimos Modulite®

One inhalation twice daily

(Continue prn salbutamol or ipratropium)

#### **OPTION 2**

### Tiotropium (Spiriva®)

1 inhalation daily

Only prescribe the device once and then put the capsules on repeat

#### Plus prn salbutamol MDI

(Remember to stop the ipratropium)

#### If no response at all, then switch to alternative option

# FEV<sub>1</sub><50% of predicted

#### Add long acting therapy plus inhaled corticosteroid and review in 8 weeks

#### **OPTION 1**

Symbicort Turbohaler 400/12® (formoterol/budesonide)

One inhalation twice daily\*

#### **OR**

Seretide Accuhaler 500® (salmeterol/fluticasone)

One inhalation twice daily\*

(Continue prn salbutamol or ipratropium)

#### **OPTION 2**

If inhaled corticosteroid is declined, add in Tiotropium

#### Review in 4 weeks

(If no benefit at all then stop this inhaler)

\*ONLY if patient is unable to use either device consider Seretide® 250 MDI 2 puffs twice daily via spacer - Evohaler® is unlicensed in COPD and 50% more expensive than licensed products.

### Step 3

### If still symptomatic, and diagnosis is confirmed

Add in inhaled corticosteroid by switching to a combination inhaler -Symbicort® 400/12 or Seretide® 500 Accuhaler only.

#### Review in 8 weeks

If inhaled corticosteroid is declined or not appropriate, and patient not on Tiotropium, add in Tiotropium

Review in 4 weeks

(If no benefit at all then stop last inhaler)

### Add to Option 1 a long acting muscarinic antagonist

#### Tiotropium (Spiriva®)

#### 1 inhalation daily

Only prescribe the device once and then put the capsules on repeat (Remember to stop the ipratropium)

#### Review in 4 weeks

(If no benefit at all then stop last inhaler)

### Step 4

### If still symptomatic

- ☑ Consider oral theophylline
- ☑ In very severe COPD if oral corticosteroid (prednisolone 5mg tablets) treatment cannot be stopped after exacerbation, keep dose as low as possible. Monitor for osteoporosis & offer prophylaxis.

#### If still symptomatic and severe consider:

- ☑ Consider pulmonary rehabilitation
- ☑ Referral to respiratory physician
- ☑ Consider nebuliser assessment
- ☑ Consider palliative care issues
- ☑ Consider referral for O2 assessment

Follow up: annual review for mild to moderate; at least 6mthly for severe and very severe Reviews to include spirometry. Ensure recall date is highlighted to patient and coded on system

### Lifestyle Advice

- Smoking cessation advice at every opportunity
- Dietary advice If BMI < 18 or > 30 (For obesity grading I – III refer to dietician)
- Exercise promote gentle exercise

#### 2 **Immunisation**

Influenza, annually Pneumococcal. as per areen book

#### 3 **Enhanced COPD Care** Service

Address social and Occupational Therapy issues

#### 4 **Anxiety & Depression**

Screen for depression and anxiety and offer treatment

#### 5 **Pulmonary Rehabilitation**

If MRC score is 3 or more refer to pulmonary rehabilitation

### Chronic productive cough

Consider a 4 week trial of a mucolytic Carbocisteine 375mg - 2 capsules 3 times/day reducing to 2 capsules twice daily if good response. Continue **only** if symptomatic benefit. Do **not** use to prevent exacerbations.

### Oxygen Therapy

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For all patients if O2 sats < 92% REFER to Primary Care Oxygen Service for Oxygen Assessment

#### Assess treatment

- Has the treatment made a difference to you?
- Is your breathing easier in any way?
- Has your sleep improved?
- Can you do some things that you could not do before or do the same things faster?
- Are you less breathless than before when doing things?
- Record MRC scale & BORG scale

## Diagnosis

#### Consider

Consider diagnosis of COPD in any one > 35 and who is a smoker / ex smoker with the following symptoms:

- Chronic cough
- **Breathlessness on exertion**
- **Regular sputum production**
- Wheeze
- Frequent winter bronchitis
- No clinical features of asthma

Do post bronchodilatory Spirometry (absolute & % predicted) **Chest X-ray Full blood count BMI** 

Severity based on FEV<sub>1</sub> % of predicted

>80% Mild: **Moderate:** 50 - 79 % 30 - 49 % Severe: Very Severe: <30%

For ALL people with COPD, ensure that the diagnosis is highlighted using active coding, and record spirometry

**Assess severity** 

### Exacerbations

#### Step 1 Are there any features to suggest hospital management?

- Severe breathlessness
- Cyanosis

Step 3

- Worsening level of consciousness
- Acute confusion
- Worsening peripheral oedema
- Poor / deteriorating general condition
- Unable to cope at home/ lives alone
- Significant co morbidity e.g. CVD, diabetes
- Receiving Long term oxygen therapy Rapid onset of breathlessness O<sub>2</sub> sat < 90%

Consider treatment in hospital

#### Step 2 ♠ Breathlessness

- Increase frequency of short acting bronchodilator MDI i.e. Salbutamol or Ipratropium via spacer
- Prednisolone tablets 30mg each morning for 7-14 days

### **Purulent sputum production**

1<sup>st</sup> line: Amoxicillin 500mg three times a day for 5 days (if allergic, Clarithromycin 500mg twice a day for 5 days)

2<sup>nd</sup> line: Doxycycline 200mg on 1<sup>st</sup> day then 100mg on days 2 - 5

Prophylactic antibiotics are NOT recommended

#### **ACTION**

- Give safety netting advice
- Optimise treatment

YES

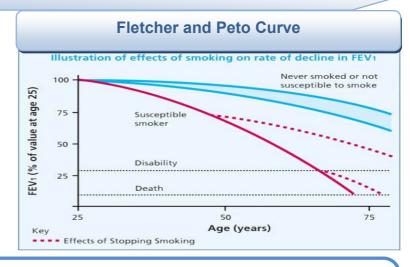
- Review patient if needed
- If more than 3 courses of oral steroids given in 1 year and over 65 consider assessing for osteoporosis

RESCUE MEDICATION RECOMMENDED: suitable patients should antibiotic and steroid stock in the house for use as per Clin. Man. Plan

#### Referral to specialist

#### When there is:

- Diagnostic uncertainty
- Uncontrolled severe COPD
- · Onset of cor pulmonale
- Nebuliser assessment
- Assessment for surgery: bullous lung disease
- Rapid decline in FEV<sub>1</sub>
- Aged < 40 or FH of alfa 1 antitrypsin deficiency
- Symptoms don't match lung function tests
- Frequent infection
- Haemoptysis



#### Resources

NICE: www.nice.org.uk

Patient information leaflets: www.patient.co.uk British Thoracic Society: www.brit-thoracic.org.uk

GOLD: www.goldcopd.com GP airways group: www.gpiag.org

Fletcher C, Peto R, Br Med J, 1:1645-1648, 1977

Green Book, can be found in Publications on www.dh.gov.uk

Antimicrobial Guidelines for Primary Care can be found on www.elmmb.nhs.uk

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