

# Chapter 3 - Respiratory System

## Asthma

Lifestyle changes include: weight loss, stopping smoking and breathing exercise programmes (as an adjuvant to drug treatment) to improve quality of life + reduce symptoms.

Asthma is a chronic **inflammatory condition of the airways** characterised by **BRONCHOCONSTRICTION**.

The most frequent symptoms are **cough, wheezing, chest tightness** and **shortness of breath**. The Bronchoconstriction is usually reversible (either spontaneously or with use of medicine) leading to intermittent symptoms.

Occasionally asthma symptoms can get gradually or suddenly worse provoking an acute asthma attack that if severe, may require hospitalisation

### Management of Chronic asthma (Adults and children over 5 years)

- 1<sup>st</sup> Line: Inhaled **short-acting beta<sub>2</sub> agonist** (e.g. Salbutamol) used **as required**.

If patient presents with **any one** of the following: **using inhaled beta<sub>2</sub> agonist 3 times a week or more**, being **symptomatic 3 times a week or more**, experiencing **night-time symptoms at least once a week** or had an **asthma attack in the last 2 years** → MOVE TO STEP 2

- 2<sup>nd</sup> Line: ADD a regular **inhaled standard-dose corticosteroid** (e.g. Beclometasone, Budesonide, Fluticasone, Mometasone).
  - Fluticasone and Mometasone provide **equal clinical activity** to Beclometasone and Budesonide at **HALF** the dosage
  - ICS should be taken initially **TWICE** daily, however the **same TOTAL dose** can be taken **ONCE** daily if good control is established.

In children, administration of high doses of ICS may be associated with growth failure, reduced bone mineral density and adrenal suppression.

- If **asthma** is **NOT ADEQUATELY controlled** → MOVE TO STEP 3

- 3<sup>rd</sup> Line: ADD a **Long-acting beta<sub>2</sub> agonist (LABA)** such as formoterol or salmeterol to be used in **conjunction with the ICS**.

- If the patient is gaining **some benefit** from addition of LABA but control is *inadequate*, then continue LABA and **↑** dose of ICS to top end of the range.

- If there is **no response** to the LABA, **discontinue** and **↑** dose of ICS.

- If control is still **INADEQUATE**, start a trial of either a **leukotriene receptor antagonist** (e.g. Montelukast), **modified-release Theophylline**, or **modified-release oral beta<sub>2</sub> agonist**. Leukotriene receptor antagonists are the preferred option in children.

- Before proceeding to Step 5, refer patients with inadequately controlled asthma to specialist care

Step 3 is up until Leukotriene receptor antagonist and Theophylline.  
Step 4 is modified-release oral beta<sub>2</sub> agonist.

# Chapter 3 Respiratory System

**C Cleary**



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