

# Department of anesthesia

Practical pharmacology

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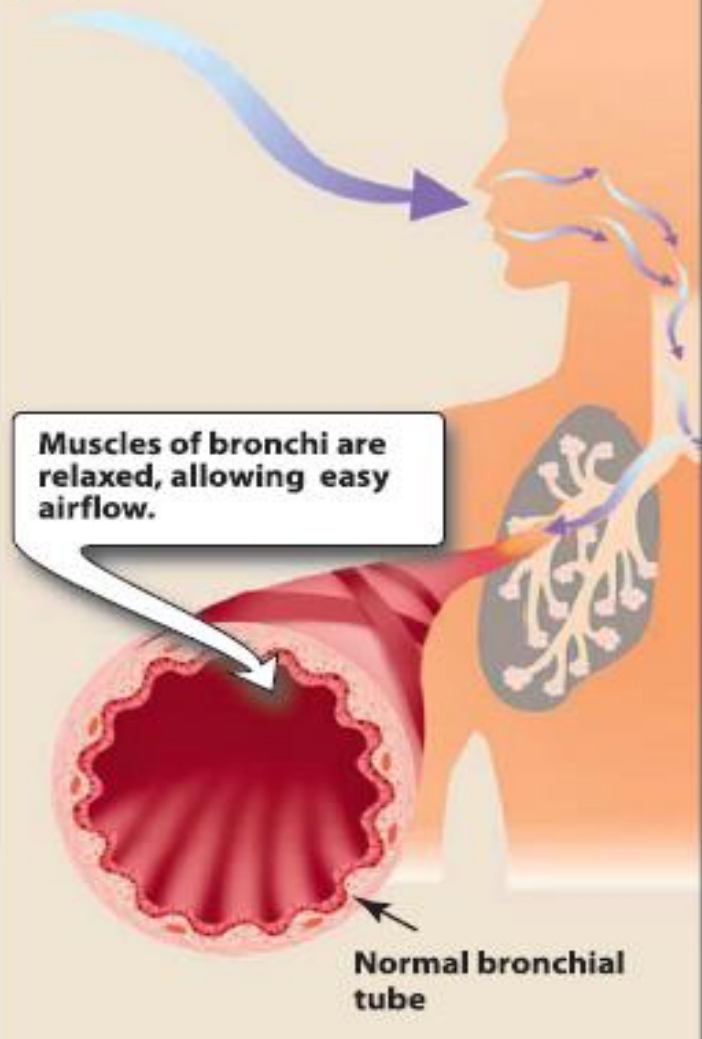
**Drugs used in Respiratory disorder**

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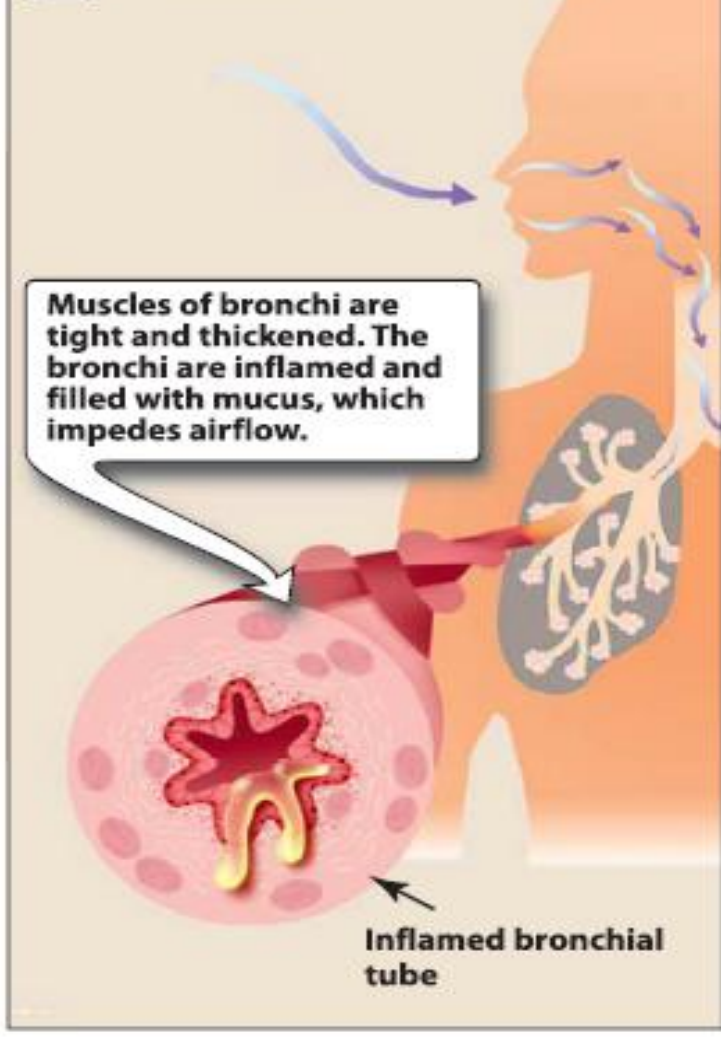
# Type of respiratory disorder

- common respiratory disorders are:
- Asthma
- chronic obstructive pulmonary disease (COPD)
- Allergic rhinitis

**A** Normal



**B** Asthma



- Drugs used to treat respiratory conditions can be delivered :
  1. topically to the nasal mucosa
  2. inhaled into the lungs
  3. given orally
  4. parenteral for systemic absorption
- **Local delivery** methods, such as **nasal sprays** or **inhalers**, are preferred to target affected tissues while **minimizing systemic adverse effects**

# Drugs used for treatment asthma and COPD

- **Short acting B2 agonist** : Albuterol (VENTOLIN) for asthma and COPD
- **Long acting B2 agonist** : *Formoterol , salmeterol for COPD*
- **Inhaled corticosteroid** : *beclomethasone, budesonide for Allergic rhinitis, Asthma, COPD*
- *Mometasone for Allergic rhinitis, Asthma*

- **LONG-ACTING B2 agonist/ corticosteroid combination :**

Salmeterol/fluticasone for Asthma, COPD

Formoterol/budesonide for Asthma, COPD

- **Short acting anticholinergic:** ipratropium for Allergic rhinitis, Asthma, COPD

# Drug used allergic rhinitis

- **Antihistamines H1 receptor antagonist :**  
loratadine, desloratadine , cetirizine
- **Montelukast :**
- **Alfa1 agonist :** Oxymetazoline , Phenylephrine  
and Pseudoephedrine

# Drugs used for cough

- **Benzonatate, dextromethorphan and Codeine:** used for dry cough
- **Guaifenesin :** Expectorant