

2013

DRUGS FOR RESPIRATORY SYSTEM FEBRUARY

March 2013

Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su

Saturday

8th Week - 054-311

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Drugs for treatment of Asthma & COPD:-

β_2 Adrenergic Agonist

SABAs
Albuterol (Salbutamol)
Levalbuterol
Terbutaline

LABAs
Arformoterol
Formoterol
Salmeterol

(PDE) Phosphodiesterase Inhibitors

Methylxanthine

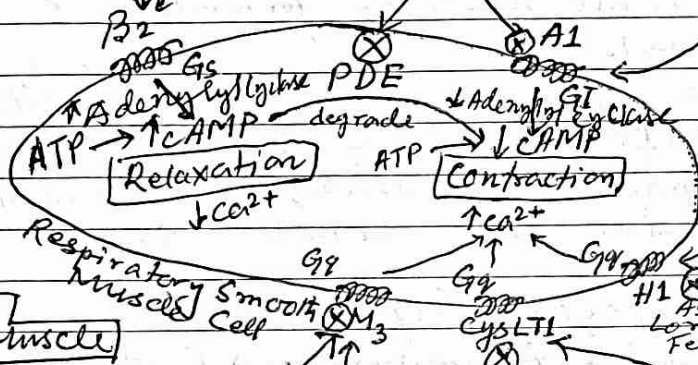
Theophylline

Aminophylline

Roflumilast

PDE4

Monoclonal Anti-IgE Antibody

Catecholamines
EPI, NE

Respiratory Smooth Muscle

Muscarinic Antagonist

SAMAs
Ipratropium

LAMAs

Tiotropium
Oxitropium

Acetylcholine

Leukotriene Modifiers

Montelukast
Zafirlukast

Zileuton

Leukotrienes
LTC4, LTD4, LTE4

Histamine

Antihistamines

Cetirizine
Levocetirizine
Chlorpheniramine
Asthimazole
Loratadine
Fexofenadine

H1

CysLT1

LOX

COX

Prostaglandins

Mast Cell Stabilizer

- ① Ketotifen
- ② Nedocromil
- ③ Disodium Cromoglycate
- ④ Cromoglyc. Sod.

Sunday 24

Adenosine A1 Receptors are found in target organs innervated by the Sympathetic nervous system. A1 receptors are coupled to inhibition of adenylyl cyclase and their effects are opposite to those of β -adrenoreceptor agonists. For example, adenosine will oppose β -mediated tachycardia and lipolysis.

Drugs for Chronic Asthma & COPD

- Corticosteroids:- Inhalant:-**
- ① Beclomethazone dipropionate
 - ② Budesonide
 - ③ Fluticasone
 - ④ Triamcinolone
 - ⑤ Flunisolide
 - ⑥ Mometasone
- Oral:-**
- ① Prednisone
 - ② Prednisolone
- inj:-**
- ① Hydrocortisone hemisuccinate

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Monday

9th Week • 056-309

Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

 February 2013
Antitussives

Classification :- a) Demulcants → Lozenges, Cough drops, Syrup, Fructose, linctus etc. reduction of provides soothing effect due to irritation of pharyngeal mucosa

b) Expectorants :- Increase mucous formation & output of cough.

i) Saline expectorants :- Causes gastric irritation & reflexly expects cough.

eg. - Ammonium Chloride, Potassium Iodide, Ammonium bicarbonate etc.

ii) Emetic & nauseant- Expectorant :-

Cephaelis Acuminata → emetine, Cephaeline, Psychotrine & ipecamine

iii) Liquefy thick & tenacious Sputum → Potassium Bromide.

iv) Increase respiratory secretion → dry & Guaiifenesin used for unproductive cough.

c) Central Cough Suppressant :- i) codeine

There as opium alkaloid, depress the cough centre like morphine. ii) Noscapine

2013

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01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Tuesday

9th Week • 057-308

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Mucolytics

1. Acetyl Cysteine → decreases the viscosity of respiratory secretion. (used also in COPD)
2. Bromhexine → Breaks up thick & sticky mucus.
3. Ambroxol → Metabolite of Bromhexine used in neonatal respiratory distress (NRDS) Syndrome.
4. Carbocisteine → Make mucus thin & less sticky.