

RESPIRATORY PHARMACOLOGY Pt.1

Rhinitis Treatments

✓ Decongestants:

α-Adrenoceptor Agonists

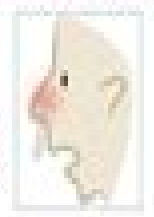
- EPINEPHRINE
- OXMETAZOLINE
ex: Afrin; also in Vicks
- PHENYLEPHRINE
- PSEUDOPHEDRINE
- Alpha & Beta agonist.
- More systemic effects (nervousness, sleeplessness)

- Adverse effects:
Sympathetic activation (CNS & CV); esp. with Pseudoephedrine.
Irregular heart beat, shaking, anxiety - DIC
- Sprays can cause Rhinitis medicamentosa
Rebound congestion after >3-5 days.
- Avoid/Use caution in: Heart dz, HTN, thyroid dz, DM, enlarged prostate, Pregnancy, MAOI use w/in 2 weeks.

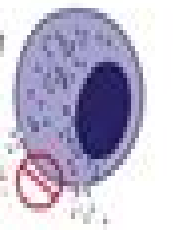
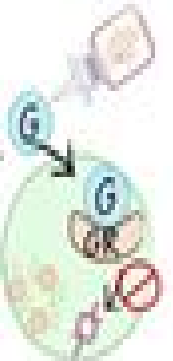
- ✓ **Glucocorticoids:** Bind to intracellular glucocorticoid receptors & down-regulate inflammatory response.
- Very effective for allergic rhinitis w/ discharge & blockage.
- Antihistamines in some formulas.

✓ Cromolyn sodium:

- Blocks Mast Cell release of histamine & other inflammatory mediators.
- Occasionally used in asthma.
- Has to be used multiple times/day; Generally less effective.



Vessel constriction in nasal mucosa reduces edema.



✓ Antihistamines:

- Histamines cause vasodilation (& edema) → increased watery discharge in nasal passages.
- H1 Antihistamines are "inverse agonists": keep H1 receptors in their inactive states to prevent mast cell degranulation & NF-κB activation → reduce nasal discharge, skin/eye itchiness, etc.
- Some H1 antihistamines also have other, non-histamine receptor effects (ex: anti-tussive effects).
- Use caution in pregnancy, cardiovascular disease, hypertension, urinary retention, elevated ocular pressure.

1st Gen: DIPHENHYDRAMINE (BENADRYL), CHLORPHENIRAMINE, BROMPHENIRAMINE, HYDROXYZINE, ETC.

- Cross the blood-brain barrier and cause sedation, headaches, poss. weight gain.
- Anticholinergic effects (dry eyes/mouth).
- Used for insomnia and motion sickness.

2nd Gen: LORATADINE, CETIRIZINE, AZELASTINE, OLOPATADINE.

- Less sedation/anticholinergic effects.

"3rd Gen": FEXOFADINE, DESLORATADINE, LEVOCETIRIZINE.
These drugs are metabolites of 2nd gen. H1 antihistamines.

✓ Saline:

- OTC nasal sprays, irrigation.
- Flushes away mucus & irritants, soothes membranes.



Cough Treatments

✓ Cough suppressants (Antitussives)

- Targets medullary cough center. NMDA receptor antagonist, Sigma-1 Receptor agonist.
- Suppresses cough caused by bronchial irritation from Flu/Colds.
- Ineffective against chronic cough caused by smoking & lung disorders.

DEXTROMETHORPHAN (DX, DM) - OTC

- Adverse effects (rare): GI upset, drowsiness, dizziness.
- Contraindications: MAOI use, children < 4 y.o.

Opioids

- Codeine, hydrocodone
- > 18 y.o.

✓ Mucocactive drugs:

- Modify production, secretion, or components of mucocilia to facilitate easier removal.

GUAFENSH

- Expectorant: increases watery mucus volume to facilitate productive coughing.

N-ACETYL-CYSTEINE

- Mucolytic: Breaks down mucus components to reduce viscosity.
- Often useful for chronic cough in COPD and Chronic Bronchitis.
- IV form treats acetaminophen overdose.

Ambroxol

- Mucokinetic: increases transportability of mucus, often by acting on the cilia.



Respiratory Therapy Pharmacology

Douglas S. Gardenhire



Respiratory Therapy Pharmacology:

Rau's Respiratory Care Pharmacology - E-Book Douglas S. Gardenhire, 2015-09-11 Take the easiest path to respiratory pharmacology mastery with Rau's Respiratory Care Pharmacology 9th Edition. With broken down terminology, relatable explanations, and reader-friendly writing, Rau simplifies the process of learning pharmacology material like never before to prepare you for success on your exams and in professional practice. This new edition includes the most recent advances related to apneic and asthmatic pharmacology, twice the number of clinical scenarios, more drug formulation tables, and a new mobile app for interactive drug flashcards. Enhanced readability helps readers more easily understand difficult material. Full color design makes the text more reader-friendly and helps the learner to identify relevant details within an illustration. Learning objectives parallel the levels tested by the NBRC exams to help readers identify important information that goes beyond memorization and recall. Key terms with definitions provide easy access to the pharmacologic vocabulary readers should embrace. Key points in each chapter highlight important concepts in the lesson. Self-assessment questions offer readers the opportunity to test themselves on content learned with thought-provoking questions that require short answers. Clinical scenarios with follow-up SOAP assessment help readers assess their comprehension of the material. Glossary of all key terms in the text aids readers in understanding the terminology associated with respiratory care pharmacology. Appendices on common units, systems of measurement, and acceptable mixtures provide references to need-to-know information such as abbreviations, conversion charts for temperatures, liquid metric and solids, and a simple drug compatibility chart for drug mixtures. Alphabetical drug index offers a direct index to look up information based on drug name. NEW Recent advances related to apneic and asthmatic pharmacology familiarize readers with current information. NEW Twice the number of clinical scenarios engages the reader and helps them apply what they have learned. NEW Mobile app for interactive drug flashcards provides a more technology-savvy, portable approach to the study and review of respiratory pharmacology. NEW More drug formulation tables that include drug categories, brand names, and dosages provide a go-to reference for better consistency and readability.

Principles of Pharmacology for Respiratory Care Georgine Bills, Christina Rose, 2019-09-13 An invaluable role of the Respiratory Therapist is to administer and educate patients on aerosolized and systemic medications used in the treatment of respiratory diseases and other therapies affecting the cardiopulmonary system. Principles of Pharmacology for Respiratory Care Third Edition is an ideal resource for Respiratory Therapists to understand the role of cardiopulmonary targeted medication therapies and the mechanism of action of drugs used in the treatment of the conditions they are treating. Mode of action, clinical indications, dosages, hazards, and side effects of multiple classifications of drugs are extensively addressed. As such, this text also serves as a comprehensive reference on drug therapies used in the treatment of respiratory diseases as well as other medical conditions. The layout of this text is organized into three distinct sections to facilitate the understanding of the material. The first section includes general

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Respiratory Care Pharmacology Joseph L. Rau, 1994 Respiratory Care Pharmacology presents the essential need to know information on respiratory pharmacology. It covers pharmacokinetics principles as they relate to respiratory agents, drug administration and a range of specific drugs used in respiratory care and their effects on body systems. This new 6th edition features newly released drugs and updated discussions with new content on adrenergic bronchodilators, mucoactive agents, antiasthma agents, anti-infective agents, cardiac drugs and circulatory drugs. This edition also includes more clinical scenarios and a new two color design throughout.

Pharmacology for Respiratory Care Practitioners Gregory P. Cottrell, Howard B. Surkin, 1995 Introduces the respiratory therapy student to respiratory pharmacology. Covers the physiological basis of drug action and drugs affecting various body systems such as the respiratory, cardiovascular and central nervous systems. Features chapter outlines and learning objectives, glossaries and key terms summaries, bandw diagrams and perspectives boxes relating pharmacology to everyday life. Annotation copyright by Book News Inc, Portland, OR.

Principles of Pharmacology for Respiratory Care Georgine W. Bills, Robert C. Soderberg, 1997 This updated edition combines a thorough overview of general pharmacologic principles with specific usages and dosages for drugs used in the clinical practice of respiratory care. The book is formatted toward the user who is trying to master the complexities of pharmacology as well as the demands of patient education and the consultative role of the respiratory care practitioner. General pharmacology content includes routes of administration and drug actions in the central and autonomic nervous systems with chapters organized by diseases or organ systems being treated. The respiratory care pharmacology content includes practical information relating to clinical decisions and drug selection for all respiratory care situations with chapter organization by drug category or action. Experienced practitioners will find this a comprehensive reference text with an extensive current bibliography and also appropriate for selected instruction of other allied health and nursing personnel.

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Table of Contents Respiratory Therapy Pharmacology

1. Understanding the eBook Respiratory Therapy Pharmacology
 - The Rise of Digital Reading Respiratory Therapy Pharmacology
 - Advantages of eBooks Over Traditional Books
2. Identifying Respiratory Therapy Pharmacology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Respiratory Therapy Pharmacology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Respiratory Therapy Pharmacology
 - Personalized Recommendations
 - Respiratory Therapy Pharmacology User Reviews and Ratings
 - Respiratory Therapy Pharmacology and Bestseller Lists
5. Accessing Respiratory Therapy Pharmacology Free and Paid eBooks
 - Respiratory Therapy Pharmacology Public Domain eBooks
 - Respiratory Therapy Pharmacology eBook Subscription Services
 - Respiratory Therapy Pharmacology Budget-Friendly Options

6. Navigating Respiratory Therapy Pharmacology eBook Formats
 - ePub, PDF, MOBI, and More
 - Respiratory Therapy Pharmacology Compatibility with Devices
 - Respiratory Therapy Pharmacology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Respiratory Therapy Pharmacology
 - Highlighting and Note-Taking Respiratory Therapy Pharmacology
 - Interactive Elements Respiratory Therapy Pharmacology
8. Staying Engaged with Respiratory Therapy Pharmacology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Respiratory Therapy Pharmacology
9. Balancing eBooks and Physical Books Respiratory Therapy Pharmacology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Respiratory Therapy Pharmacology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Respiratory Therapy Pharmacology
 - Setting Reading Goals Respiratory Therapy Pharmacology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Respiratory Therapy Pharmacology
 - Fact-Checking eBook Content of Respiratory Therapy Pharmacology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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