

## RSPT 1200 EXAM II STUDY GUIDE

- 43 multiple-choice questions
  - Follow the objectives and evaluate your understanding with the self-assessments and the quizzes on Colbert's site.  
(<http://www.myhealthprofessionskit.com/RespiratoryTherapy.html>)
- 7 additional points for second 8 drugs (ipratropium bromide, tiotropium bromide, acclidinium bromide, albuterol and ipratropium bromide, salmeterol and fluticasone, budesonide & formoterol, mometasone & formoterol and acetylcysteine).
- Primarily from Modules C& D, although Modules A & B are fair game.
- Things to focus on:
  - Definitions of all terms.
  - Aerosol Therapy
    - Goals
    - Advantages/disadvantages of inhalational route.
    - Factor that influence medication delivery
    - Particle size and site of deposition
    - Proper selection of delivery device
    - Components of an MDI
    - CFC vs HFA
    - Proper administration of an MDI
    - Duration of use for an MDI
    - Spacer vs. Holding Chamber
    - Components of a DPI
    - Proper administration of a DPI
    - Design of SVN
    - Proper administration of an SVN
    - Design of USN or Vibrating mesh
    - Advantages /disadvantages of
      - MDI
      - DPI
      - SVN
    - Cleaning of
      - MDI
      - Spacer/holding chamber
      - DPI
      - SVN
    - Continuous nebulization
    - Stoplight calculation
    - Pre-/Post-bronchodilator evaluation
  - Bronchodilators
    - Bronchospasm vs. bronchoconstriction.
    - cAMP vs. cGMP
    - Categories of bronchodilators
      - Front-Door

- Back-Door
- Side-Door
- Types
  - Catecholamines
    - Structure
    - Mode of action (diagram)
    - Epinephrine
    - Racemic Epinephrine
  - Resorcinols
    - Metaproterenol
    - Terbutaline
  - Saligenins
    - Albuterol
    - Pirbuterol
    - Salmeterol
    - Levalbuterol
  - Others
    - Formoterol
    - Aformoterol
- SABA vs. LABA
- Continuous nebulization agents
- Subcutaneous agents
- Side effects of sympathomimetics
- Anti-Cholinergics
  - Mode of action (diagram)
  - Atropine
  - Ipratropium bromide
  - Tiotropium bromide
  - Side effects of anti-cholinergics
- Combination therapy
  - Examples
  - Rules
- Xanthines
  - Mode of action (diagram)
  - Side effects of xanthines