SELF ASSESSMENT RSPT 1210 - MODULE E: MUCOLYTICS

- 1. Name the three mucolytics.
 - A. **ACETYLCYSTEINE**
 - **B. SODIUM BICARBONATE**
 - C. DORNASE ALFA
- 2. How do each work as a mucolytic to thin secretions
 - A. ACETYLCYSTEINE BREAKS DOWN DISULFIDE BONDS
 - B. SODIUM BICARBONATE ALTERS pH TO WEAKEN SUGAR SIDE OF CHAINS OF GLYCOPROTEINS
 - C. DORNASE ALFA BREAKING DOWN OF DNA IN MUCUS
- 3. What is the best way to facilitate physiologic clearance of mucous? **PROVIDE ADEQUATE HYDRATION**
- 4. Dornase Alfa is also referred to as **RECOMBINANT HUMAN DEOXYRIBONUCLEASE** (RHDNASE) and has a trade name of **PULMOZYME**.
- 5. List the dosage for Mucomyst:
 - A. 3-5 ML OF A 20% SOLUTION TID OR QID; MAXIMUM DOSE 10 ML
 - B. 6-10 ML OF A 10% SOLUTION TID OR QID; MAXIMUM DOSE 20 ML
- 6. List the dosage for Dornase Alfa: ADMINISTER ONE UNIT DOSE VIAL (2.5 mL of a 0.1% SOLUTION (2.5 mg).
- 7. How do mucolytics affect the property of mucous? They would:
 - decreases viscosity
 - B. decreases elasticity
 - C. decrease viscosity and elasticity
- 8. What is the composition of mucous?
 - A. 95% **WATER**
 - B. 3% PROTEIN & CARBOHYDRATE
 - C. 1% LIPIDS
 - D. .03% **DNA**
- 9. Mucomyst is also given orally to treat a/an **ACETAMINOPHEN** overdose.
- 10. List two common side effects of Dornase Alfa
 - A. VOICE ALTERATION
 - B. PHARYNGITIS/LARYNGITIS
 - C. RASH
 - D. CHEST PAIN
 - E. CONJUNCTIVITIS
- 11. Mucomyst should never be mixed in the same nebulizer with **ANTIBIOTICS**.
- 12. Would you give Mucomyst to a patient during an asthma attack? NO. MUCOMYST CAN PROMOTE BRONCHOSPASM IN A PATIENT WITH REACTIVE AIRWAYS.
- 13. A normal healthy person produces how many mL of mucous in 24 hours? 100 mL

- 14. Name two sources of mucous production:
 - A. BRONCHIAL (SUB-MUCOSAL) GLANDS
 - B. **GOBLET CELLS**
- 15. How does atelectasis affect lung compliance? **ATELECTASIS REDUCES LUNG COMPLIANCE.**
- 16. List three diseases that produce increased amounts of mucous.
 - A. CHRONIC BRONCHITIS
 - B. CYSTIC FIBROSIS
 - C. BRONCHIEACTASIS
 - D. **ASTHMA**
 - E. PNEUMONIA
- 17. Submucosal glands produce how many times more mucous than goblet cells? 40
- 18. Differentiate between mucous and sputum
 - MUCUS IS THE TOTAL SECRETION FROM MUCOUS MEMBRANES INCLUDING THE SURFACE GOBLET CELL AND THE BRONCHIAL GLANDS.
 - SPUTUM IS THE EXPECTORATED SECRETIONS THAT CONTAINS MUCUS, AS WELL AS OROPHARYNGEAL AND NASOPHARYNGEAL SECRETIONS (SALIVA).