STREPTOCOCCI AND ENTEROCOCCI

Date: Tuesday, August 28, 2018, 10:30-11:30 am

Reading Assignment and References: Murray et al., Medical Microbiology, 8th ed., 2016. Chapters 19,

EDUCATIONAL GOALS AND OBJECTIVES:

At the conclusion of this lecture and reading assignment, you will be able to describe how the genus Streptococcus is divided into groups and the pathogenic mechanisms and clinical diseases associated with commonly isolated beta hemolytic streptococci. Students will also understand how the enterococci relate to the streptococci and the types of infections and treatments associated with the enterococcal species.

OBJECTIVES

To attain these goals you will be able to:

1. Name the species of streptococci associated with Lancefield groups A and B
2. Describe the structural and functional characteristics that distinguish streptococci from staphylococci
3. List clinical manifestations of Streptococcus pyogenes infection.
4. Name two diseases that occur as sequelae to streptococcal infections and describe their clinical presentation
5. Name virulence factors associated with Streptococcus pyogenes and the mechanisms by which they enhance infection
6. Describe the limitations of Rapid Group A Detection kits
7. Explain the role of S. agalactiae in causing neonatal disease and how neonatal disease may be prevented.
8. Identify the key morphologic and phenotypic tests used for identification of S. pneumoniae
9. Name the species included in the Anginosus Group Strep
10. List the two major species of Enterococcus causing infection in humans and explain their association with vancomycin resistance.
11. List 3 most common infections caused by enterococcci