CHAPTER 3

AIMS AND OBJECTIVES

- To study the prevalence of bacterial pathogens associated with Respiratory tract infections.

- To study the antibacterial resistance pattern of the isolated pathogens.

- To do a detailed study on Beta hemolytic Streptococci:
  - To carry out emm typing of selected beta hemolytic streptococci isolated. (ie Group A Streptococci(GAS), Group C Streptococci (GCS), Group G Streptococci (GGS)
  - Perform Minimum Inhibitory concentration(MIC) for all Macrolide resistant strains
  - Perform Double disc diffusion test to detect the phenotypic pattern of Macrolide resistance.
  - Molecular detection of Macrolide resistance gene; ermB, erm TR and MefA gene.
  - To detect various virulence factors like biofilm formation and Serum opacity factor of GAS.