National Conference on Multidisciplinary Research 15-17 December 2020

Clinical features of Streptococcal Sp.

Monali P Mishra*, Sangita Patra

Centurion University of Technology and Management, Odisha

INTRODUCTION

Streptococcal infecton is an infection caused by streptococcus species which is a gram positive

coccus .the shape of the bacteria is spherical or round with 10 um of diameter. Streptococcus

bacteria belongs to the famly streptococcaceae, order of the bacteria is lactobacillales and in the

phylum firmicutes. They are found in pairs and chain like structures because the cell division of

streptococcus occurs in a single axis. The chain like structure of streptococcus may appear as

bent or twist. There are many strains of streptococcus that lives naturally in an individual and do

not show any symptoms. Streptococcus are important pathogen of human that cases pyogenic

infection, this infection have characterstics tendency to spread. This type of coccus can cause non-

suppurive lesions such as ARF[Acute Rheumaic Fever]and glomerulo nephritis.At the time of

microbiological investigation, it is required to add some carbohydrate that must be

fermentable(eg;glucose), blood or serum. They do not grow properly in simple media.

CLASSIFICATION

Streptococcus are classified as for their oxygen requirement first one is aerobic and facultative

anaerobes and second is obligate anaerobes i.e eg is peptostreptococci. Further aerobic and

facultative anaerobes classified as per their hemolytic activity that is alpha hemolytic, beta

hemolytic, gamma haemolytic these three haemolytic reaction appearing blood Agar when

streptococcus is investigated in laboratory obligate anaerobes are non sporing anaerobes

A. Alpha haemolytic *Streptococci*

due to partial haemolysis this caucus produce greenish discoloration around the colonies the size

of the zone of innovation is about 1 to 2 mm wide this can be observed under microscopically two

types of streptococci shows Alpha hemolytic properties these are Streptococcus pneumonia and

viridians streptococci.

B. beta haemolytic Streptococci

Centurion Journal of Multidisciplinary Research Special Issue: December 2020

ISSN: 2395-6216

771