



Current Trends of Antibiotics for Treatment of Chronic Suppurative Otitis Media in Developing Countries

Vijay Vitore*

G G Hospital, India

*Corresponding author: Vijay Vitore, GG Hospital, India; E-mail: drvijayvitore@gmail.com

Received: February 22, 2021; **Accepted:** February 23, 2021; **Published:** February 28, 2021

Chronic otitis media suppurative (CSOM) is a chronic one, insidious and potentially dangerous illness due to the multiple fatal complications therein. It is also a big health issue. In developed countries, it is the prevalent cause of deafness conductive.

Shift in the indiscriminate bacteriological scenario with the use of antimicrobial agents was related to emergence of several strains resistant to drugs. Data on popular pathogenic agents and their antibiotic sensitivities are necessary for the proper selection of antibiotics. The present research is therefore undertaken to understand the aerobic CSOM's bacteriological flora and their antibiograms.

109 cases of CSOM with a clinical diagnosis, both age groups and both sexes who engage in ENT OPD and studies have been performed on ENT wards. The ear swab was removed from the patient. Furthermore, each patient underwent Gram staining and culture, MacConkey's agar and Chocolate agar on blood agar.

Random choices of 109 cases of CSOM were

studied, of these, 71 were men and 38 were women. The bulk of the patients were in the 11-20 age range. *Pseudomonas aeruginosa* predominance (53.91 percent) was followed by *Proteus mirabilis*, *Staphylococcus aureus* (28.69 percent) (6.09 %), *Klebsiella pneumoniae* (5.23%), *Citrobacter freundii* (4.35%) and *Citrobacter freundii E. coli a. coli* (1.73 percent). Such antibiotics as Imipenem, Piperacillin-tazobactam, Amikacin, ciprofloxacin and Levofloxacin were found to be more effective against all Gram positive and Gram-negative isolates. The bacterial isolates were recognized by standard biochemical isolates for responses. The Kirby-Bauer method of disk diffusion was carried out to search for antibiotic resistance.

The dominant organism, *Pseudomonas aeruginosa*, was *Staphylococcus aureus*, *Proteus mirabilis*, *Klebsiella* are followed by *Citrobacter freundii*, *Pneumoniae* and *E. coli*. The most powerful drugs were Imipenem, Tazobactam-piperacillin, Amikacin, Levofloxacin and Ciprofloxacin.