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Service (sector) Laboratory - PUCRS-SETOR DE CÓRNEA E DOENÇAS EXTERNAS OCULARES Nº CEP

AEROBIC FLORA IN A EXTERNAL OCULAR DISEASE LABORATORY

ALVES, LEANDRO DE SIQUEIRA METHODS Culture of patients refered to a private ocular diseases laboratory in Porto Alegre, RS in the period between ianuary of 1999 and december of 2003 was considered. Bacterial species and in vitro antibiotic sensitivity tests was examined. RESULTS 1923 patients was examined and 310 bacteria was isolated(16.12% of cases). Gram positive strains were the most frequently organisms(78.06%). Staphylococcus aureus was present in 201 cases(64.83%), Streptococcus pneumoniae in 34(10.96%), Staphylococcus epidermidis in 5(1.6%). Streptococcus A and Staphylococcus saprophyticus was isolated in 1 case each(0.32%). The gram negative were Klebsiella pneumoniae-(19cases-6.12%)Pseu domonas aeruginosa-14 cases(4.52%),Moraxella catarrhalis-11 cases(3.5%), Escherichia coli-9 cases(2.9%), Haemophylus sp-4 cases(1.29%).Bacillus subtilis,Serratia marcescens and Listeria monocitogenes was isolated 1 time each other. The in vitro antibiotic tests was performed by diffusional method and 14 antiotics were routinely Quinolones(norfloxacin,ofloxacic,ciprofloxacin and tested. lomefloxacin) had manteined their performance in this period of times.Bacteria showed more than 90% of sensitivity to this drugs. Aminoalvcosides had lost their efficacy. Gentamicin had 90.90% of spectrum sensitivity in 1999 and 23,17% in 2003 while tobramicin,41,81% in 1999 and 18.29% in 2003. Drugs such chloranphenicol and tetraciclin, not commonly used today, showed increasing from more than 85% in 1999 to more than 90% in 2003. CONCLUSION Aerobic infection are not frequently in a refference laboratory(16.12% of all cases);Gram + are more frequent(78.06%).The sensitivity of bacteria to antiotics have variations in time. The guinolones seems to have best behavior in vitro in our study. Chloranfenicol and tetracycline remains and option in treatment.