

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo (X)
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Ocular infections caused by coagulase negative staphylococcus sp carrying plasmid r with genetic sequence of virulence

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Purpose: to establish an association between antimicrobial drug multi-resistance and pathogenicity among coagulase negative staphylococcus (cns) isolated from human corneas, eyelids and conjunctivas.

Methods: 16 cns specimen isolated from eye infections at unifesp were analyzed as well as 10 collected from assymptomatic patients. Antibiotics sensibility tests by vitek(r) method were performed. Plasmidial dna was extracted and identified through agarose-gel-electrophoresis. Pathogenicity test was done then in hela monolayer cell, before and after plasmid cure. Pictures were taken for each Step. Dnastar software profiled each plasmid.

Results: 6 samples showed multi-drug resistance, further with localized adhesion at 3h and observed in epithelial cells citogel phagossomes at 16h. Plasmid cure confirmed previous steps, losing adhesive and invasive properties after chemically treated.

Conclusions: these experiences evidence strong association between multi-resistance to antimicrobial drugs, plasmidial extra-cromossomal dna findings and virulence, demonstrated through pathogenicity tests.