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In vitro Resistant Trends of Ocular Coagulase–Negative *Staphylococcus* (CNS) Isolates for Fluorquinolones , Aminoglycosides and Methicillin.

Maria de Fátima Gayoso, Ana Luisa Hoflingg-Lima, Adália Dias Dourado Oliveira, Maria Cecília Zorat Yu, Waldemar Francisco **Purpose:** To demonstrate and compare emerging resistance of conjunctival and corneal pathogens isolates among the current ophthalmic fluorquinolones (ciprofloxacin, ofloxacin) and aminoglycosides at Vision Institute – Federal University of São Paulo.**Methods:** The antibiotic susceptibility of 272 corneal and 435 conjunctival CNS was determined to methicillin ,ofloxacin ,ciprofloxacin, tobramycin and gentamicin by Kirby-Bauer disk diffusion.

Results:

Conjunctival coagulase-negative <i>Staphylococcus</i> isolates				
Antibiotics resistance	2000	2001	2002	2003
	(n=57)	(n=107)	(n=118)	(n=153)
Methicillin 30[19,6%]	1[1,8%] p<0,001*	1[0,9%]	11[9,3%]	
Ciprofloxacin 14[9,2%]	2[3,5%] p=0,543	8[7,5%]	11[9,3%]	
Ofloxacin 12[7,8%]	1[1,8%] p=0,270	6[5,6%]	11[9,3%]	
Tobramycin 53[34,6%]	9[15,8%] p<0,001*	10[9,3%]	21[17,8%]	
Gentamicin 39[25,5%]	6[10,5%] p=0,003*	10[9,3%]	21[17,8%]	
Corneal coagulase-negative <i>Staphylococcus</i> isolates				
Antibiotics resistance	2000	2001	2002	2003
	(n=28)	(n=78)	(n=88)	(n=78)
Methicillin 23[29,5%]	4[14,3%] p=0,003*	6[7,7%]	13[14,8%]	
Ciprofloxacin 8[10,3%]	4[14,3%] p=0,787	7[9,0%]	7[8,0%]	
Ofloxacin 7[9,0%]	4[14,3%] p=0,813	10[12,8%]	9[10,2%]	
Tobramycin 21[26,9%]	8[28,6%] p=0,268	12[15,4%]	18[20,5%]	
Gentamicin 18[23,1%]	6[21,4%] p=0,672	12[15,4%]	17[19,3%]	

Conclusions: Corneal and conjunctival coagulase negative *Staphylococcus* showed a trend toward increasing resistance to both ofloxacin and ciprofloxacin, but this change was not statistically significant during this four year period. Resistant significant rates for CNS was observed for aminoglycosides (tobramycin and gentamicin) in conjunctival isolates, and for methicillin in corneal and conjunctival isolates. These laboratory results must be correlated with clinical treatment and outcome studies.