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In Vitro bacterial sensitivity related to fluorquinolones based on the minimum inhibitory concentrations (MIC)

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Purpose: To establish the fluorquinolones MIC for ocular Gram - bacilli and Gram + cocci. Material/Methods: We carried out *in vitro* tests and determined the MIC values for gatifloxacin (GAT), moxifloxacin (MOX), ciprofloxacin (CIP) and ofloxacin (E-test) for ocular Gram - bacilli and Gram + cocci strains , using selected isolated pathogens: 20 *Serratia* sp, 20 *Moraxella* sp, 23 *Pseudomonas* sp, 21 *Haemophilus* sp, 16 *Streptococcus pneumoniae*, 20 *Streptococcus viridans*, 22 *Staphylococcus aureus* methicillin-susceptible, 22 *Staphylococcus coag-* methicilin-resistant and 57 *Staphylococcus coag-* methicillin-susceptible strains were tested. RESULTS: For interpretation of MIC (E-test) susceptibility, we calculated the MIC 90 for each antibiotic.

N		Cipro	Ofloxa	Gati	Moxi	
	<i>S.aureus</i> MS	22	0,25	0,50	0,125	0,094
	<i>S. coag.-</i> MR	22	32	32	2.0	3.0
	<i>S. coag.-</i> MR	57	2.0	6.0	1.0	0.75
	<i>Streptococcus pneumoniae</i>	16	1.0	1.5	0.19	0.12
	<i>Streptococcus viridans</i>	20	4.0	4.0	0.38	0.38
	<i>Haemophilus</i> sp	21	0.19	1.5	0.32	0.5
	<i>Pseudomonas aeruginosa</i>	23	0,25	2.0	1.0	2.0
	<i>Serratia</i> sp	20	0,125	0,38	0,25	0,5
	<i>Moraxella</i> sp	20	0,047	0,19	0,094	0,094

CONCLUSIONS: We found that CIP MIC 90 is lower for Gram- bacteria, while MOXI and GATI have lower MIC 90 values for Gram+ bacteria. Selected strains isolated from conjunctivitis keratitis and endophthalmitis were tested.