Current Issue	Acta Medica Iranica	
Browse Issues	2009;47(4) : 94-99	
♀ Search	Antimicrobial susceptibility testing of Escherichia coli strains isolated from urinary tract infections to fluoroquinolones and detection of gyrA mutations in resistant strains	
🗐 About this Journal	Akbari-Nakhjavani F.,, Mirsalehian A., Hamidian M., Kazemi B., Mirafshar M., Jabal Ameli F., Pajand O., Peymani A	
💰 Instruction to Authors	Abstract:	
 Online Submission Subscription Contact Us RSS Feed 	Widespread uses of fluoroquinolones have resulted in increasing incidences of resistance against these agents all over the world. The aim of this study was to assess, susceptibility of Escherichia coli strains from patients with Urinary Tract Infection against common fluoroquinolones and detection of mutations in the gyrA gene. Antimicrobial susceptibility testing of 164 E.coli isolates from patients with UTI, was evaluated by disk agar diffusion (DAD) and MIC methods. Polymerase chain reaction of E.coli strains were performed by amplification of Quinolone Resistance Determining Region (QRDR) of gyrA gene. PCR products were tested by Conformational Sensitive Gel Electrophoresis (CSGE) and those with hetrodublexes were selected and examined by DNA sequencing. According to disc agar diffusion, 49.3% were resistant to nalidixic acid, 41.4% to norfloxacin, 44.5% to ofloxacin and 40.2% to ciprofloxacin. By Minimal Inhibitory Concentration (MIC) testing a high-level of resistance (42.1%) to ciprofloxacin was observed. Mutations in codons 83 and 87 in all 81 isolates were positive by CSGE method	
	TUMS ID: 3644 Full Text HTML I Full Text PDF 185 KB	top
	Home - About - Contact Us	

TUMS E. Journals 2004-2009 Central Library & Documents Center Tehran University of Medical Sciences

Best view with Internet Explorer 6 or Later at 1024*768 Resolutions