

عنوان مقاله:

DETERMINATION OF ANTIBIOTIC RESISTANCE PATTERN AND THE PREVALENCE OF BETA-LACTAMASE GENE :
BLATEM, SHV AND DHA IN PSEUDOMONAS AERUGINOSA CLINICAL SAMPLES

محل انتشار:

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خلاصه مقاله:

Background and Aim: The presence of ESBL genes play an important role in resistance to beta-lactam antibiotics producing strains of these enzymes play . Gram-negative bacteria including Pseudomonas aeruginosa resistance to various antibiotics , beta-lactams and carbapenems especially increasingly been reported . This study aimed to investigate the prevalence of beta-lactamase genes in Pseudomonas aeruginosa isolates was performed by PCR method. Methods: ۱۰۳ strains of Pseudomonas aeruginosa isolated from clinical samples of urine, sputum, burn wounds and devices dialysis pediatric hospitals in the cities of Qom and Tehran, with the Gram stain, a test of biochemical differentiation and PCR District ۱۶s rRNA detection were identified. Resistance to Ceftazidime/clavulanic acid and cefotaxime/ clavulanic acid ۱۰ other common antibiotics was determined by disk diffusion method. Genomic DNA was extracted by method kit was performed and the beta-lactamase gene amplification with primers Amplicon available and were designed and genes were analyzed by PCR. Results: Of the total ۱۰۳ isolates of Pseudomonas aeruginosa, ۵۰ isolates with broad-spectrum beta-lactamase phenotype were observed. ۴۶ isolates (۴۷/۳۸%) were carriers of TEM-۱ beta-lactamase gene. ۳۵ isolates had SHV gene and none of the isolates was observed in DHA gene. Conclusion: Pseudomonas aeruginosa beta-lactamase largely resistant to other common antibiotics and to select a suitable drug for destroying their antibiotic susceptibility testing should be done.

کلمات کلیدی:

Pseudomonas aeruginosa, ESBL, blaTEM, blaSHV, blaDHA

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