

Phenotypical study on Betalactamase producing 'g strains frequencies isolated patients of Fuman Imam Hasan Mojtaba hospital. A six months study.

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Abstract Introduction: one of the most important complications of sepsis workups is the antibiotic resistancy. *Escherichia coli* and *Enterobacteriaceae* are the bacterias that play roles in hospital acquired infections that are resistanced to some of antibiotics. So the goal of this study is to study the Frequency of Wide spread beta lactamase producing strains Taken the patients of Imam hasanmojtaba Hospital of Fuman city in 2014. **Material and methods:** a total of 1000 samples isolated urine samples wound products blood and csf obtained patients collected and sent to the lab of that hospital and after that the samples cultured in growth media, elective and special anti_biogram, studied to antibiotic resistancy and wide spread betalactam producing strains were applied. **Results:** a total of 100 strains 80 of them were *E.coli* that 50 strains of them were after the usage of ESBL containing disks, 20 strains *Klebsiella* 10 strains *Enterobacter* and 10 strains were proutuos *Escherichia coli* and *Enterobacter* have the most resistancy against ampiciline and porotuse has the most resistancy to gentamicine and ampiciline and *Klebsiella* has the most susceptibility to ciprofloxacin There is a significant negative communication between diameter of disk diffusion and resistancy in all bacterias and a significant positive communication between Mic and resistancy **Conclusion:** monitoring and antibiograms before order of a drug make a suitable treatment and better controlling of hospital infections and decrease of drug resistancy. A complete period of treatment prevent the appearance of multi drug resistant strains Giving information about the dosage and usage of antibiotics play a significant role in decrease of antibiotic resistancy. **Keywords** β -Lactamases producing strains , ESBL, Phenotyp, Mic.Diskdiffusion.

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