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Effect of βlactamAntibiotics with Aminoglycosides on Multidrug Resistance *Staphylococcus aureus*

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Abstract: Atotal of two hundred and ninety samples were collected from midstream urine taken from patients suffering from urinary tract infections,21isolates of*Staphylococcusaureus*were isolated and identified depending on their morphological properties (cultural and microscopical) and biochemical tests. The antibiotic sensitivity of the isolates is tested against twenty antibiotics, the isolates showed high resistance. The meropenem, impinemamikacin, nitrofurantion,cifotaxim, and sifitrixone are found more effective. The inhibition concentrations of isolates were higher. The combination of βlactam withan aminoglycoside (Amikacin and gentamycin) antibioticsshowed an active synergistic effect against the multidrugsresistance of isolate.

Keywords: Minimum Inhibitory Concentration and Combination, Antibiotics. *S. aureus*.

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