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The antibiotic resistance and its importance in the hospital acquired infections

Background: One of the most difficult problems in hospitals and an important issue in therapy is the occurrence of an increased number of resistant strains to antibiotics. Worldwide, researches are carried over for the AB resistance phenomenon, in the following directions: Fundamental research for better knowledge of the natural and acquired resistance mechanisms and development of surveillance networks.

Objective: The objective of our study was the establishment of the AB resistance pattern of isolated strains to the most frequently used AB for treatment.

Methods: Identification and the resistance profiles of the isolated strains were performed with API20E, disk diffusion method and Vitek2 system.

Results: Strains of MRSA, *E. coli, Klebsiella, Enterobacter, Acinetobacter* and *Pseudomonas* were isolated from hospitalized patients. The tested strains showed a high resistance both to common AB and to those recently discovered.

Conclusion: There was a significant increase in the prevalence of AB resistance among the most common pathogens of nosocomial infections. Consistent efforts towards rational use of AB are going to influence the evolution of bacteria AB resistance patterns.

Biography

Lia Monica Junie is the Head of the Department, also coordinating the activities of both Laboratory Medicine specialty resident doctors and PhD doctor's thesis in the medicine field. She is a Member in the Board of Scientific Societies, Reviewer in many peer-reviewed journals, Expert of the Ministry of Education and Research and Evaluator. She has coordinated research projects, published books and more than 200 scientific articles in prestigious journals. She has organized and attended numerous national, international congresses, as President, Member in the Organizing Committees, Invited speaker, Keynote speaker or Chairperson.

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