

7. PECULIARITIES OF ETIOLOGICAL STRUCTURE OF THE SEPTIC-PURULENT INFECTIONS IN THE PATIENTS WITH ORTHOPEDIC TRAUMA HOSPITALS

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Introduction: Septic-purulent nosocomial pathology is the major public health problem. One of the nosocomial infections particularity is the diversity of causative agents, which depend on the profile of the department.

Materials and Methods: In this study was used the transversal retrospective method of analysis. There were isolated 2013 strains of microorganisms from the patients with septic-purulent infections, hospitalized in orthopedics and traumatology departments.

Results: The result of the study found that the etiological structure was varied and included 18 species of microorganisms and predominant Gram-positive (63,2%). From gram-positive microorganisms predominate were *S.aureus*– 62,02%, *S. epidermidis*– 15,02% and *E. faecalis*– 20,2%. Gram-negative microorganisms are isolated in 35,56 %, *P. aeruginosa*– 30,02 %, *E.aerogenes* 24,3 %, *E. coli* - 12,3 %, *Citrobacter*– 17,59 %, *Proteus* – 10,06 % and *Klebsiella* – 5,30%. Is confirmed the polyetiological features of septic-purulent infections. At the 43,36% patients were isolated the combination of microorganisms from 2 to 5 strains. In young patients were isolated mainly monocultures, while in the elderly were detected association of 2-5 strains of microorganisms. Also, a decrease of gram-positive strains of microorganisms was found with increasing age of the patients and, conversely, an increase of gram-negative microorganisms.

Conclusion:

Septic-purulent nosocomial infections in trauma patients are characterized by the predominance of gram-positive microorganisms as a causative agents. There were identified a high rate of association of microorganisms isolated in pathological eliminations, and increasing of gram-negative microorganisms disorders at elderly patients.

Keyword: septic-purulent nosocomial infections, the etiologic structure, gram-positive microorganisms, gram-negative microorganisms