

Abstract:

Title: Investigations on the etiology of sepsis

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Background: Sepsis can be defined as the body's reaction to infection (bacterial, viral, fungal, parasitic) which may lead to systemic inflammatory reaction and eventually organ dysfunction and/or failure. The second place of sepsis after infection is represented by bacteremia caused by this microbe in the blood and objectified by positive blood cultures, which can be transient. In recent years, considerable progress has been made in diagnosis and treatment of sepsis, septic shock, but remains urinary the most common cause of death in patient with urologic pathology.

Objective: Microorganisms present in the bloodstream was a marker for this paper in sepsis etiology objectification. **Material and methods:** we performed a retrospective study during 20.02.2011-21.02.2012 on a group of 603 patients admitted to City Hospital Targu Mures.

Results: of all patients, 49 are men/ 33 are women, the age distribution of patients showed that all segments of age are interested. The average hospitalization was 9 days, with limits between 7 and 21 days. The etiology cases of sepsis varied: 23.17% *Escherichia coli*; 14.63% *Staphylococcus hominis*; 13.41% *Staphylococcus epidermidis*; 9.75% *Klebsiella pneumoniae* of a total of 82 positive cultures. The pathogen etiology was possible only in 13.59% of all cultures analyzed. Gram negative is frequently involved in causing sepsis compared with Gram positive. **Conclusions:** the study group analysis provided the following conclusions:- sepsis is an important cause of mortality in any medical service;- the most important microorganism was *Escherichia coli*;- urosepsis represented 17.07% of the 82 positive blood cultures.

Keywords: sepsis, infection, bacteremia, hemoculture.

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