

Bacteria and antimicrobial resistance in children at Damascus Hospital

Fares Kahal

Syrian Private University, Syria

 Fareskahal@hotmail.com

Abstract

Background: Antimicrobial resistance is the third top-ranking global causative of death.

Aims: The aim is to evaluate antimicrobial resistance and sensitivity to aid the assessment of the efficacy in Syrian management protocols.

Methods: A retrospective study was conducted to analyse children with positive culture results presenting with nosocomial or community-acquired infections in Damascus Hospital, Damascus, Syria.

Results: 116 patients with 177 positive culture results were included in the study. The most common gram positive bacteria was Staphylococcus, it was also the most common bacteria in the sample, while the most common gram negative bacteria was E.coli. The most common infection focus in the sample were Urinary tract 38%, blood stream 26%, respiratory tract 23%, cutaneous 7% and meninges 5%. The most antibiotic-resistant bacterium was Pseudomonas aeruginosa. The highest bacterial antibiotic resistance occurred with 3rd generation Cephalosporines. The number of deaths was 37(16%), nosocomial infection 19(51%) and community infections 18(49%).

Conclusion: There is an extremely high bacterial resistance to the antibiotics of choice and there is no doubt that this is one of the main reasons for the high rate of deaths in the study; therefore, the efficacy of the remaining antibiotics to which the bacteria are sensitive must be maintained through rationalization of its use. Strict precautionary measures must be implemented to ban the illegal dispensation of antibiotics.

Abbreviations: MDR: Multidrug-Resistant, CSF: Cerebrospinal Fluid.

Keywords: Paediatric, Antibiotic resistance, Sensitivity, Syria.

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Biography

Mr. Fares Kahal is a final year medical student studying at the faculty of Medicine, Syrian Private University, Damascus, Syria. He has published 1 paper.