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Current state of epidemiology and level of resistance of bacteria responsible for urinary tract infections at Ibn Tofail Hospital, Mohamed VI University Hospital, Marrakech

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Purpose: The increased resistance of uropathogenic bacteria to antibiotics, both in community and hospital settings, justifies the need for periodic regional monitoring of these resistances.

Material & Method: During one-year, we had proceeded to retrospective study from January 1st, 2016 to January 1st, 2017. All urinary specimens of hospitalized patients at Ibn Tofail Hospital and external patients were included in the study. The bacterial identification was made by biochemical gallery 'Api' and the susceptibility to antibiotics was tested by antibiogram on agar media according to the recommendations of EUCAST 2016.

Result: During the study period, 523 ECBU were carried out, 69 bacterial strains were isolated, *Enterobacteria* represented 45 (65%), *Escherichia coli* dominated the epidemiological profile (45%), followed by *Acinetobacter baumannii* 11 (16%), then *Enterococcus* and *Staphylococcus aureus* with 7%, *Pseudomonas aeruginosa* 3% and finally *Streptococcus* spp. (1%). These strains came from hospitalized patients (48%) and external consultants (52%). The susceptibility to antibiotics showed a high frequency of resistance to the main families of antibiotics. About 15% of *Enterobacteria* were producing extended spectrum β -lactamase (ESBL) and 11% were Carbapenem resistant. Nearly, 55% of AB isolates were resistant to Imipenem. These resistances were accompanied by high rates of co-resistance to other families of antibiotics.

Conclusion: Dissemination of resistant bacteria, particularly ESBL in community and hospital settings, should lead practitioners to a rational prescription of antibiotics, preferably guided by the results of an antibiogram

Biography

Sana Aourarh has completed her Doctorate in General Medicine from Faculty of Medicine and Pharmacy of Marrakech, Morocco and she further started her Specialty in the same year on Biology and Medical Analysis at the Hospital Mohammed VI of Marrakech, Morocco

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