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POSTER COMMUNICATION · INFECTIOUS DISEASES

Antibiotic resistance of bacteria isolated from bloodstream infections in pediatrics

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English version of a poster presented in French.

KEY MESSAGES

1. Les bactériémies en pédiatrie sont associées à une morbidité et mortalité importantes nécessitant une prise en charge adaptée.
2. Klebsiella pneumoniae, Acinetobacter baumannii et Staphylococcus aureus sont les principales bactéries isolées avec des profils de résistance préoccupants.
3. La surveillance épidémiologique est cruciale pour limiter la diffusion des souches multirésistantes et améliorer la prise en charge clinique.

ABSTRACT

Introduction. Bloodstream infections are defined by the presence of bacteria in the blood and represent a major management challenge in pediatrics, increasing morbidity and mortality. The objective is to identify the main bacteria responsible for bloodstream infections in pediatric settings and study their antibiotic resistance profiles.

Materials and methods. A retrospective descriptive study over one year (January to December 2024) including children hospitalized in pediatric departments at the Mère-Enfant Abderrahim Harouchi Hospital. Blood cultures were analyzed at the bacteriology-virology laboratory of the University Hospital Center of Casablanca. Bacterial identification was performed by MALDI-TOF mass spectrometry and antibiotic susceptibility testing by automated microdilution (Phoenix), according to CA-SFM/EUCAST recommendations.

Results. Out of 2553 blood cultures, 570 were positive (22.33%). The male/female sex ratio was 1.11. The most frequent bacteria were Klebsiella pneumoniae, Acinetobacter baumannii, and Staphylococcus aureus. High resistance rates were observed, including ESBL-producing Enterobacteriaceae resistant to ciprofloxacin, gentamicin, amikacin, and carbapenems, as well as methicillin-resistant Staphylococcus aureus and significant resistance of Acinetobacter baumannii and Pseudomonas aeruginosa to imipenem and ceftazidime.

Conclusion. Epidemiological surveillance of pathogens responsible for bloodstream infections in pediatrics is essential to limit the emergence and spread of multidrug-resistant strains and optimize clinical management of children.

Online record, HD poster
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POSTER



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