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Clinical characteristics and antibiotic resistance in children with invasive *Acinetobacter baumannii* infection

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Objective: To analyze the clinical characteristics and antibiotic resistance in children with invasive *Acinetobacter baumannii* infection (IABI).

Methods: A retrospective analysis was performed on the clinical and drug sensitivity data of 52 children with IABI between January 2004 and December 2011.

Results: Of the 52 children with IABI, 35 (67%) were less than one year old and 35 (67%) had IABI in the summer and autumn, 19 (37%) of these children were clinically diagnosed with septicemia, 16 (31%) with urinary tract infection, and 12 (23%) with skin and soft tissue infection, and 38 (73%) of them suffered from underlying diseases. The incidence rates of hospital-acquired and community-acquired IABIs were 90% and 10%, respectively. 44 cases (85%) were cured or showed improvement in symptoms, and 8 cases (15%) died. All the IAB strains isolated from these children were sensitive to amikacin, 82% of them were sensitive to imipenem, more than 70% were sensitive to fluoroquinolone and to cefoperazone/sulbactam, 13% were sensitive to cefoperazone, 8% were sensitive to aztreonam. 21% were multidrug resistance, and 17% developed pandrug resistance.

Conclusions: IABI occurs more frequently in children under one year of age, and most children with IABI have underlying diseases. IABI mainly results in septicemia, urinary tract infection and skin and soft tissue infection and is mostly hospital-acquired. Multidrug resistance is fairly severe in IAB strains.

Biography

Dong Lin has completed her M.D in 1986 from the department of Pediatrics in Wenzhou Medical college. She is the chief doctor of Pediatrics. She has published more than sixty papers in pediatric and other journals, and acquired many awards, such as "Children Young Investigator Award" of the 4th Congress of International Pediatric Pulmonology" and "International Travel Award" of the 60th American Academy of Allergy, Asthma & Immunology. Now she is the vice chairman of hospital infection control committee in Wenzhou city and the Director of infection administration department in affiliated Yuying Children's Hospital of Wenzhou Medical College.

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