

Prevention and control of CRBSI caused by Gram negative bacilli should be strengthened in the hospital” Li et al (2015).

Abstract:

OBJECTIVE: To determine the pathogen characteristics of catheter-related bloodstream infection (CRBSI).

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METHODS: The clinical data of patients with CRBSI who were admitted in West China Hospital, Sichuan University during January 1, 2011 and October 15, 2014 were retrieved, along with findings of pathogen culture and drug susceptibility tests.

RESULTS: Eighty-four strains of pathogens were isolated from 77 patients, which included 41 strains (48. 8%) of Gram-negative bacteria, 23 strains (27. 4%) of Gram-positive bacteria, and 20 strains of fungus (23. 8%). Enterobacteriaceae was predominant (29/41, 70.7%) in the Gram-negative bacteria, followed by non-fermenting bacteria (12/41, 29. 3%). Staphylococcus spp. was the main (16/23, 69. 6%) species of Gram- positive bacteria. Candida albicans led to 35. 0% (7/20) fungi infection. Resistance of Enterobacteriaceae to ceftriaxone was high (65. 5%, the highest), compared with its resistance to imipenem (3. 4%, the lowest). The non-fermentative bacterial had complete (100%) resistance to nitrofurantoin, and 16. 7% resistance (the lowest) to levofloxacin. Staphylococcus spp. had 81. 3% resistance (highest) to clindamycin, and zero resistance to vancomycin and linezolid. Resistance to amphotericin and 5-flucytosine was not found in Candida spp. isolates.

CONCLUSION: Prevention and control of CRBSI caused by Gram negative bacilli should be strengthened in the hospital. Clinical treatments should be guided by the in vitro drug susceptibility of pathogens.

Reference:

Li, D.N., He, C., Wang, Y.F., Kang, M., Chen, Z.X. and Xie, Y. (2015) Pathogen Characteristics of Catheter-related Bloodstream Infection. Sichuan Da Xue Xue Bao Yi Xue Ban. 46(5), p.794-7. .



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