

Topic: Three-year Surveillance of Antibiotic Resistant Strains of Clinical Isolation of Bacteria in a District Hospital in Taiwan.

TSANG-CHIEH CHEN (Asia University Hospital)

The threat of drug-resistant bacterial infections to humans has become a global problem, and the infection of multiple antibiotic resistance strains of bacteria will face the possibility that there will be no therapeutic drug to use. Therefore, the Global Health Security Agenda, GHSA contains 11 important action plans, and the prevention and treatment of antibiotic resistance which is listed as the first action plan. Since the opening of Asia University Hospital, this hospital has carried out the information control system of second-line and above second-line antibiotics. From Aug. 1st 2016 to Jul. 31st 2019l, the isolation rates of drug-resistant strains in clinical blood culture were as follows: ESBL-E-coli 23.6%, ESBL-KP 15.92%, Enterobacter cloacae (CR)8.57% and MRSA 38.95%.The isolation rates of drug-resistant strains in clinical urine culture were: ESBL-E-coli 33.28%, ESBL-KP 40%,Enterococcus faecium (VRE) 68.98% and MRSA 27%.Compared with Taiwan National Infectious Disease Statistics System (TNIS), based on the statistical results in 2018, the isolation rates of drug-resistant strains in blood culture were: ESBL-E-coli 38%, ESBL-KP 44%, Enterobacter cloacae (CR) 0% and MRSA 72%. The Isolation rates of drug-resistant strains in urine culture were ESBL-E-coli 42%, ESBL-KP 76%, Enterococcus faecium (VRE) 55% and MRSA 59%. The rate of drug resistance of bacteria in Asia University Hospital is low. Therefore, the control of antibiotics is closely related to the ratio of multiple antibiotic resistance strains of bacteria. Our hospital will continuously monitoring the antibiotic resistance of clinical antibiotic resistant strains to provide an important datum for clinicians to use antibiotics.

Biography

Tsang-Chieh Chen is the Head of outpatient nursing of nursing department in Asia University Hospital. She has 22 years' experience of clinical nursing and infection control. She was qualified for nursing project examination, and was certified as N4 of Clinical Ladder Systems for Nurses in Taiwan Nurses Association, TWNA. In the meantime she had the successful poster presentation of nursing project in Chung Shan Medical University, Taiwan.

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