

P1829

Poster Session VI

Various clinical infections

ASSESSMENT OF URINARY TRACT INFECTIONS IN A TERTIARY CARE HOSPITAL, IN TURKEY

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Objectives: Urinary tract infections are one of the commonly occurred infections. Especially patients who undergo urinary tract procedures, who have pregnancy or comorbid diseases are needed to be hospitalized and treated with broad spectrum antibiotics. In this study, we have evaluated the patients who were hospitalized in our clinic for the urinary tract infection.

Methods: Patients followed in our clinic for urinary tract infections between June 2012 and November 2013 involved in our study. Patient's epidemiological and clinical features, laboratory values were searched from patient's records and hospital information system retrospectively, and were recorded on prepared forms.

Results: This study included 104 patients with urinary tract infection followed in our clinic. Of patients, 65 (62.5%) were female, mean age was 60.7±21.5 years. Twenty-four patients were hospitalized in last three months; they were discharged from the hospital mean 18.7±17.9 days ago. Fever was detected in 86 patients (82.7%), dysuria in 54 (51.9%) and costovertebral angle tenderness in 44 (42.3%). Costovertebral angle tenderness was more frequently detected in female patients and it was statistically significant (p=0.000). Of patients, 27 (26%) had various procedures involving urinary tract; six of these procedures were performed in last one month. The procedures were associated with kidney in 10 patients (37%), prostate in six (26%), bladder in seven (22%), urether in four patients (15%). The most frequently detected comorbid diseases were hypertension, diabetes mellitus and coronary artery diseases (37%, 27% and 17%, respectively). Fifteen patients were pregnant (Urinary tract ultrasonography was performed in 85 patients, 26 had no pathological findings. In other patients, there was increased echogenicity in renal parenchyma, hydronephrosis and renal stones (28%, 23% and 9%, respectively). Mean white blood cell count was 13318 /mm³, mean sedimentation rate 46 mm/h and mean C reactive protein level 10.8 mg/dL. The most frequently isolated microorganisms in the urine culture were *Escherichia coli* (42%) and *Klebsiella* spp. (9.6%). ESBL rate was 35%. The mostly used antibiotics for the treatment were ceftriaxone (59%) and ertapenem (18%). Mean length of stay was 9.2±7.0 days.

Among 27 patients who undergone procedures, 19 were male (70%), it was statistically significant (p=0.00). There was no statistically difference between patients with or without urinary procedures in terms of comorbid diseases, urinary symptoms, fever, length of stay, sedimentation and C reactive protein (p>0.05). In these patients *E. coli* (41%) and *Klebsiella* spp. (18%) were the mostly isolated microorganisms similar to whole patients. However ertapenem was the most frequently used antibiotic (41%) (p=0.001). ESBL rate was 2.5 times higher than patient without procedures but it wasn't statistically significant.

Conclusions: We found that ESBL rate was higher in patients with procedures involving urinary tract and ertapenem had more used antibiotic in these patients than ones without procedures.