EVALUATION OF THE ANTIBACTERIAL ACTIVITY OF BARK OF LITCHI CHINENSIS AGAINST ESCHERICHIA COLI, A UTI CAUSING ORGANISM

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Abstract: Main focus of present study was to screen the UTI patients, classification of patient on the basis of sex, age and antimicrobial activity of different ethanol, aqueous extracts of bark of Litchi chinensis L. against Escherichia coli. Agar well diffusion method was used to evaluate antibacterial activity against E. coli. Result suggested that Ethanol extract of Litchi chinensis shows more antibacterial activity as compared to aqueous extract, and norfloxacin against E. coli. On the basis of microbial count in urine sample, 30 out of 97 suspects were UTI positive. 70% females were UTI positive. Most infections were seen in age group of 16-30yr in both male (13.3%) as well as female (30%). Ethanol extract (30mg/ml) showed 31.86% more inhibition zone as compared to norfloxacin (30mg/ml). Aqueous extract (30mg/ml) also showed 23.56% more inhibition zone as compared to norfloxacin (30mg/ml).

Keywords: Litchi chinensis, Antibacterial, E. coli, UTI

REFERENCES


