



THE PREVALENCE OF URINARY TRACT INFECTIONS IN PATIENTS WITH CHRONIC KIDNEY DISEASE

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KEYWORDS :

INTRODUCTION

CKD affects ~13% globally, leading to increased risk of infections.

UTIs are common in CKD due to immune dysfunction, urine stasis, and catheter use.

This study assesses UTI prevalence, microbiological profile, and CKD correlation.

2. MATERIALS AND METHODS

Design: Cross-sectional, observational

Setting: Kanachur Institute of Medical Sciences, Mangalore

Duration: [Insert Study Period]

Inclusion: CKD patients (Stage 1–5), aged 15–65, with symptoms of UTI

Exclusion: Recent antibiotics or urological surgery

Procedure: Urine cultures, sensitivity testing, creatinine, eGFR

Analysis: Descriptive statistics, correlation coefficient

3. RESULTS

Mean Age: 47.27 years; 60–65 years most affected

Stage 5 CKD most common (41.33%)

Hypertension in 37.33%

E. coli most frequent (66.7%)

High sensitivity to Imipenem, Colistin

Strong negative correlation between creatinine clearance and CKD stage ($r = -0.89$)

4. DISCUSSION

E. coli predominance consistent with global data Advanced CKD impairs immune defenses Rising antibiotic resistance necessitates culture-guided therapy Creatinine clearance correlates with disease progression

Limitations: Single-center, short duration, small sample size

5. CONCLUSION

UTIs are prevalent in CKD, especially in later stages E. coli is the major uropathogen Culture sensitivity and rational antibiotic use are vital for management

6. REFERENCES

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