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What Is Specific With Bacterial Escherichia Coli Urinary Tract Infection

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Background

Bacterial urinary tract infections continue to be a major health problem, responsible for a significant morbidity and mortality. Its prognosis is more severe than non-bacterial forms. The aim of this work was to study the clinical and evolutionary features of bacterial urinary tract infections caused by *Escherichia coli* (*E.coli*).

Backgrou

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Methods

We conducted a retrospective study including all patients hospitalized in the infectious diseases department for urinary tract infection (UTI) caused by E.coli between 2010 and 2017.

Results

- ► Total: 75 cases (12.2%) of bacterial UTI among
- 613 cases of UTI caused by *E.coli*.
- ► **Gender:** 47 females: 62.7%.
- ► Mean age: 59 ±17 years.
- → 33 patients were aged ≥ 65 years: 44%.
- ► Previous medical history:

Diabetes was noted in 50.7% of the cases (Table 1)

Table 1: Previous medical history of patients

	Number	Percentage (%)
Diabetes	38	50.7
Renal lithiasis	14	18.7
Urinary tract infection	13	17.3

► Clinical presentation: The most common clinical presentation was acute pyelonephritis: 78.7% (Table 2)

Table 2: Clinical presentation of bacterial urinary tract infections caused by Escherichia coli

	Number	Percentage (%)
Acute pyelonephritis	59	78.7
Prostatitis	8	10.6
Renal abscess	5	6.7
Prostatic abscess	3	4

- ▶ There were 36 cases of multidrug-resistant bacteria: 48%.
- ► Community-acquired UTI: 70 cases: 93.3%.

- ► Mean duration of treatment: 18 ± 6 days.
- ▶ Treatment associated with antibiotics:
 - Surgery: 4 cases: 5.3%
 - Radiological drainage: 2 cases: 2.7%.
- ▶ Disease evolution: Favourable in 77.3% of the cases (Table 3).

Table 3: Disease evolution of patients with bacterial urinary tract infections caused by *Escherichia coli*

	Number	Percentage (%)
Favourable	58	77.3
Relapse	9	12
Reinfection	6	8
Death	2	2.7

Complications were noted in 10 cases (13.3%) represented mainly by acute renal failure in 4 cases: 5.3%.

Conclusion

Bacterial urinary tract infections caused by E.coli were associated with complications such as renal and prostatic abscess, requiring surgery and long duration of treatment.