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## REVIEWER'S REPORT

Manuscript No.: IJAR-55301

**Title: STUDY OF VIRULENCE FACTORS AND ANTIMICROBIAL SUSCEPTIBILITY PATTERN OF UROPATHOGENIC ESCHERICHIA COLI IN A TERTIARY CARE HOSPITAL**

**Recommendation:**

Accept as it is .....

**Accept after minor revision.....**

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality	Excellent			
Clarity	Excellent			
Significance	Excellent			

Reviewer Name: Dr. Sumathi

### *Detailed Reviewer's Report*

1. Urinary tract infection is a common bacterial infection in the urinary system often caused by E.coli leading to frequent, painful urination, urgency and lower belly pain, requiring antibiotics for treatment, though untreated infections can spread and become serious.
2. Women are more prone to UTIs due to shorter urethras and prevention involves wiping front to back.
3. Uropathogenic E.coli are specific strains of Escherichia coli that are the primary cause of urinary infections, a very common infection, especially in women, causing symptoms like painful, frequent urination , abdominal pain and cloudy urine.
4. UPEC are highly adapted, possessing virulence factors like adhesion molecules and toxins that help them stick to urinary tract cells, evade defenses and resist antibiotics, leading to persistent infections and potential kidney inflammation.
5. Transmission often occurs from the gut to the urethra due to poor hygiene or sexual activity with UPEC forming reservoirs in the bladder to cause recurrent issues.

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6. Gelatin hydrolysis is the breakdown of gelatin by enzymes into smaller peptides and amino acids, which changes its texture from a solid gel to a liquid, used in microbiology for bacterial identification and in food for texture modification.
7. Key words are given excellent with significant.
8. Result part is good but can be included graphs for results.
9. Summary points can be included.
10. References should be in alphabetical order.
11. After a small corrections good to publish in your journal.