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Observational Study

Prevalence, serotyping and drug susceptibility patterns of *Escherichia coli* isolates from kidney transplanted patients with urinary tract infections

Atefeh Najafi Khah, Mojdeh Hakemi Vala, Shiva Samavat, Mohammad Javad Nasiri

Abstract

BACKGROUND

Extended-spectrum β -lactamase (ESBL)-producing *Escherichia coli* are among the main

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Introduction. **Urinary tract** infection (UTI) is one of the most common bacterial **infections**, occurring in healthy people and immunocompromised **patients**.¹ Approximately, 70–95% of community-acquired (CA) cases and 50% of all nosocomial **infections** related to UTI are caused by **Escherichia coli**.² Uropathogenic *E. coli* (UPEC) strains are an economic burden for both ...

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Prevalence and antibiotic resistance pattern of extended ...

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Escherichia coli is the most prevalent and hence the most important multidrug-resistant Gram-negative infection, especially in **patients with urinary tract** infection (UTI).[2,3] Throughout the recent century, ESBL-producing Enterobacteriaceae have been introduced in the literature.

Author: Kiana Shirani, Elahe Seydayi, Kiaras...

Publish Year: 2019

Antibiotic Susceptibility Patterns and Prevalence of Some ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6490404>

Jan 23, 2018 · **Prevalence** of Plasmid-Mediated quinolone resistance determinants and OqxAB Efflux Pumps **among** Extended-Spectrum β -Lactamase producing *Klebsiella pneumoniae* isolated from **patients** with Nosocomial **Urinary tract** infection in **Tehran, Iran**. Scientifica (Cairo) 2015; 2015:518167. [PMC free article] [Google Scholar]

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Apr 25, 2012 · **Urinary tract** infection (UTI) is a common health problem **among** pregnant women. Proper investigation and prompt treatment are needed to prevent serious life threatening condition and morbidity due to **urinary tract** infection that can occur in pregnant women. Recent report in Addis Ababa, Ethiopia indicated the **prevalence** of UTI in pregnant women was 11.6 % and Gram ...



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Prevalence and antibiotic susceptibility pattern of ...

<https://www.sciencedirect.com/science/article/pii/S2052297520300688>

Jul 01, 2020 - *Escherichia coli* was the most frequently isolated species and accounted for 68.3% of the uropathogens. Moreover, organism such as *K. pneumoniae*, *Pseudomonas* spp., *Enterococcus* spp. and *Proteus* spp., which are part of the normal intestinal flora, represented 9.3%, 4.1%, 2.8% and 2.1%, respectively, as shown in Table 3. These findings are consistent with previous reports [8,20].

Author: A. Muhammad, S.N. Khan, N. Ali, M.U. R... Publish Year: 2020

Serotyping and Antimicrobial Susceptibility Pattern of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4800102>

Urinary tract infections (UTIs) in pediatric population are associated with high morbidity and long term complications. In recent years, there is increased prevalence of *Escherichia coli* (*E. coli*) strains producing extended spectrum β -lactamase, Amp C, and Metallo β -lactamase, making the clinical management even more difficult. This study was aimed to detect the serotypes and to determine ...

Cited by: 8 Author: Shweta Sharma, Nirmaljit Kaur, Shalini Mal...

Publish Year: 2016

Antibiotic Susceptibility Patterns and Prevalence of Some ...

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Results: A total of 126 different gram-negative bacterial strains were isolated. *Escherichia coli* (*E. coli*) was the most prevalent bacterium (49 isolates) followed by *Idesbiella pneumonia* (*K. pneumonia*) (35 isolates), *Pseudomonas aeruginosa* (*P. aeruginosa*) (18 isolates), *Citrobacter freundii* (*C. freundii*) (12 isolates), *Enterobacter aerogenes* (*E. aerogenes*) (8 isolates) and *Proteus mirabilis* ...

Cited by: 5 Author: Heba Takleef Majeed, Ahmed Abduljabbar ...

Publish Year: 2019

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1. Introduction. Kidney transplantation (KTx) is the best treatment for patients with end-stage renal disease (ESRD). Despite routine screening, treatment and prophylaxis, the prevalence of urinary tract infections (UTIs) in KTx patients is high; more than every third patient is affected []. While lower UTI/cystitis usually does not limit graft prognosis, pyelonephritis and urosepsis limit the ...

Cited by: 3 Author: Jonas Abo Basha, Matthias Kiel, Dennis Gö...

Publish Year: 2019

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4800102>

Urinary tract infections (UTIs) in pediatric population are associated with high morbidity and long term complications. In recent years, there is increased **prevalence of Escherichia coli** (*E. coli*) strains producing extended spectrum β -lactamase, Amp C, and Metallo β -lactamase, making the clinical management even more difficult. This study was aimed to detect the **serotypes** and to determine ...

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Cited by: 3 **Author:** Jonas Abo Basha, Matthias Kiel, Dennis ...

Publish Year: 2019

Urinary Tract Infections in Kidney Transplant Patients Due ...

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0134737> ▾

Aug 03, 2015 · Introduction. **Urinary tract infections** (UTI) affect 5 to 36% of **kidney transplant patients** (KTPs), being the main infectious complication among such patient population [1–4], and one of the most common causes of graft loss and mortality [5, 6]. Interestingly, we found a high incidence of extended