

Review Form 1.8

Journal Name:	International Journal of Advances in Nephrology Research
Manuscript Number:	Ms_IJANR_120101
Title of the Manuscript:	The Uromune Vaccine- A New Era in UTI Management : A Review
Type of the Article	Review Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Is the manuscript important for scientific community? <i>(Please write few sentences regarding this manuscript to justify your answer)</i>	Yes, however, extensive research should be conducted to improve content.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
Is the abstract of the article comprehensive?	Yes	
Are subsections and structure of the manuscript appropriate?		
Do you think the manuscript is scientifically correct? <i>(Please write few sentences regarding this manuscript to justify your answer)</i>	The Author should refer to Guidelines to improve write-up eg. In-text references were not properly presented.	
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.	Yes	

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<p>Minor REVISION comments</p> <p>Is language/English quality of the article suitable for scholarly communications?</p>	<p>Major revision needed.</p>	
<p>Optional/General comments</p>	<p>ABSTRACT</p> <p>Urinary tract infections (UTIs)- capitalize each word</p> <p>UTIs are categorized into uncomplicated and complicated- in full</p> <p>UTIs are symptomatic when there are clinical urinary symptoms that- in full indicate infection’;”---- del</p> <p>Such as micturition, dysuria, or pollakiuria- “s”</p> <p>UTIs are recurrent when at least two episodes appear- in full over a 6 months period- month</p> <p>or three Over a 12 months period- over</p> <p>The most prevalent location of UTI is the bladder, where they cause cystitis- Capitalize “C”</p> <p>The antibiotics usually suggested are sulfamethoxazole(200mg), trimethoprim(40mg), sulfamethoxazole(200mg)--- Capitalize “S” trimethoprim(40mg)----Capitalize “T” nitrofurantoin(100mg)---Capitalize “N”</p> <p>A simple vaccine has been brought for this urinary tract infection by the researchers at the Royal Burshire Hospital in England. - Rewrite</p> <p>This vaccine is called-- Delete</p> <p>‘uromune’ should be sprayed under the tongue--- capitalize “U”</p> <p>From there - Replace word</p> <p>doesn’t kill bacteria- does not</p> <p>recognises the protein and kills the non- motile bacteria---Recognizes</p> <p>This vaccine is been used experimentally for 9 years without any problems- Rewrite</p> <p>Keywords: vaccine, uromune, antibiotic resistance, protein, recurrent UTI, bacterial infection---- Capitalize each word</p> <p>INTRODUCTION</p> <p>Urinary tract infections (UTIs) ---- Capitalize each word</p> <p>while other authors reported 8:1 ratio--- check spacing</p> <p>Because 50–60 % --- 50-60% check spacing</p>	

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At least one fourth of these patients will have a recurrence within a year, - year and 22 % will have recurrent urinary tract infections (RUTIs)- Capitalize each word

infectiodns ---Infections

On the other hand, anatomical or functional urinary abnormalities those promotes persistence, recurrence, and are secondary to complex UTI. ---Rewrite

Additionally, Infections confirmed by urine culture When at least two episodes occur over the course of six months, or three during the course of a year, urinary tract infections are considered recurrent .---- Rewrite

It has been observed that women are up to 30 times more likely than men to experience them.--- Provide reference

Escherichia coli is the most often isolated pathogen (80%) in UTI patients, followed by Klebsiella pneumoniae, Proteus species, Enterococcus species, and Staphylococcus saprophyticus---- italicize

Extended use of antibiotics can have negative side effect Impacts. --Re-write

DISCUSSION

Fifty percent of women suffer from urinary tract infections (UTIs)- Capitalize each word

a crippling ailment that result in 20–30% of cases of recurring infections- “Results”

a once-daily polybacterial sublingual vaccination made of inactivated entire bacteria (E. coli, Klebsiella, E. faecalis, and Proteus)[3].- italicize

It contains bacterial lysates from different strains of UPEC --in full

The polymicrobial combination Solco-Urovac is made of heat-inactivated Uropathogens that are available -----Uropathogens

in a number of European nations. This immunostimulant contains 10 organisms, six of which are E. coli. ---italicize

Other strains include Proteus mirabilis, Klebsiella pneumoniae, Morganella morganii, and Enterococcus faecalis.- Italicize

In 50% of women, vaccination prevented urinary tract reinfection throughout a 24 Weeks and notably prolonged the period before reinfection in contrast to the group receiving a placebo .---check spacing

Moreover, it was not feasible to exhibit its effectiveness in combating foreign strains or capacity to elicit a long-lasting immunological reaction Proteus vulgaris, Enterococcus faecalis, Klebsiella pneumonia, and E. coli -Italicize

C Ramírez Sevilla, E Gómez Lanza...et al in a study named “Active immunoprophylaxis with uromune® decreases the recurrence of urinary tract infections at three and six months after treatment without relevant secondary effects” -- Re-write

In a research paper titled “PD63-01 evaluating the safety and effectiveness of uromune ® bacterial vaccine over a 9- year period in the UK: A study on managing recurrent urinary tract infection. In men and women” Sagar Kanabar, Stephen J Foley, Bob Yang et al found that it is the first long-term study on Uromune®, and it shows that there are very few long-term adverse effects and a good safety record-- Rewrite

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In a study titled “PLLBA-02 A novel sublingual vaccine will dramatically alter the clinical management of recurrent urinary tract infections in women” Curtis Nickel, María Fernanda Lorenzo-Gómez, Stephen Foley, Paula Saz - Leal et al ---Re-write

rUTI- stick to one rUTI/RUTI

In a study titled “Analysis of the Efficacy of a Sublingual Bacterial Vaccine in the Prophylaxis of Recurrent Urinary Tract Infection” Pedro Carrión-López, Jesús Martínez-Ruiz et al---Re-write

Sara Wawrysiuk, Kurt Naber, Tomasz Rechberger, Pawel Miotla et al according to the study titled “Prevention and treatment of uncomplicated lower urinary tract infections in the era of increasing antimicrobial resistance—non-antibiotic approaches: a systemic review,” this study provides the first active comparator data on Women of all ages frequently experience UTIs. ---Re-write

Antibiotics are still the gold standard for treating and preventing UTIs as a result. Antimicrobial resistance may be avoided, at least in part, by altering the therapeutic approach and including non-antibiotic strategies in the management of UTI. The European Association of Urology’s 2019 amended guidelines state that the prevention of recurrent urinary tract infections entails non-antimicrobial measures first, counseling on risk factor avoidance second, and antimicrobial prophylaxis third. - ---Re-write

A significant reduction in **rUTI - stick to one rUTI/RUTI**

diabetes mellitus- Diabetes mellitus

Even while using various NSAIDs to treat an uncomplicated UTI was often still less effective than using antibiotics, treating the infection similarly to other mostly benign bacterial diseases—that is, by focusing on the host rather than the bacteria—may encourage more research into more effective treatments.- Re-write

It’s important - It is

Shabaka, Amir1; de la Manzanara, Virginia López1 et al according to the study titled “Clinical and Immunological Response to Sublingual Vaccination for the Prevention of Recurrent Urinary Tract Infections in Kidney Transplant Patients” - Re-write

making it a viable **tactic** to -replace word

According to the study by Maria.F Lorenzo – Gomez,Barabara padilla Fernandez et al , titled “Comparison of sublingual therapeutic vaccine with antibiotics for the prophylaxis of recurrent urinary tract infections”, Because antibiotic resistance is on the rise, it lowers antibiotic intake in line with current recommendations. - Rewrite

In the study titled “ The burning issue of urinary tract infection” Emma Duffield, Bob Yang, Steve Foley et al - Re-write

Personalized treatment is the best option, particularly as cystitis symptoms frequently **go away** on their own. ---replace word

A new global health crisis is emerging as a result of increased pressure on health systems **brought on** - Replace word

In the study titled “Preventing and Treating UTIs” Leah Bedrosian, Gerda Endeman et al came to a conclusion that clinical trial of the bacterial vaccination Uromune who have recurrent UTIs. - Re-write

The four most prevalent organisms that cause UTIs are found in Uromune in inactive form: **Enterococcus faecalis, Proteus vulgaris, E. coli, and Klebsiella pneumoniae- Italicize**

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In a study titled "Vaccines for the prevention of recurrent urinary tract infections: a systematic review" Nikoo Azimnia, Marios Hadjipavlou, Yiannis Philippou, Shivkumar S Pandian, Sachin Malde, Mohamed Y Hammadeh et al Came to a In "Urinary tract infection in Parkinson's disease" Elliot Hogg, Samuel Frank, Jillian Oft, Brian Benway, Mohammad Harun Rashid, Shouri Lahiri et al - Re-write

Came to a --"c"

concluded that At a relative risk - "a"

891 patients . A sublingual- check spacing

vaccine called MV140 (Uromune) against four common strains of inactivated uropathogens----Delete 's' and "--"

E. coli, K. pneumoniae, P. vulgaris, and E. faecalis — italicize and Delete "--"

MV140, also known as Uromune, is a sublingual vaccine composed of a mixture of inactivated --The MV140,

Escherichia coli, Klebsiella pneumoniae, Proteus vulgaris and Enterococcus faecalis - italicize

According to the study by Giada Antonelli, Luigia Cappelli et al titled "Strategies to Tackle Antimicrobial Resistance: The Example of Escherichia coli and Pseudomonas aeruginosa" Although randomized placebo-controlled clinical trials are still underway, preliminary data from retrospective and prospective uncontrolled studies reported a significant efficacy of the vaccine to prevent recurrent UTIs in women between 16 and 97 years old [17].-- Re-write

In a research paper titled "Current Stage in the Development of Klebsiella pneumoniae Vaccines", Raquel Girardello, Thiago Rojas Converso, Michelle Darrieux et al - --Re-write

In ----in

K. pneumoniae, E. coli, Proteus vulgaris, and Enterococcus faecalis- italicize

David Hernández-Hernández, Bárbara Padilla- Fernández et al according to the study titled " Recurrent Urinary Tract Infections and Asymptomatic Bacteriuria in Adults"- Re-write

concluded that A ---a

polyvalent bacterial preparation called MV140, sometimes referred to as Uromune®, has equal----Re-write

Escherichia coli, Klebsiella pneumoniae, Proteus vulgaris, and Enterococcus faecalis- italicize

In a study titled "A Combination of Polybacterial MV140 and Candida albicans V132 as a Potential Novel Trained Immunity-Based Vaccine for Genitourinary Tract Infections" L Martin-Cruz, C Sevilla-Ortega et al - Rewrite

which is used to prevent RUTIs,-stick to one rUTI/ RUTI??

The germs responsible for most RUTIs in Europe are included in this sublingual vaccine: 25% --- stick to one rUTI/ RUTI??

Gram-positive (Enterococcus faecalis) and 75% are Gram-negative (Escherichia coli, Proteus vulgaris, and 25% Klebsiella pneumoniae)- Italicize

Clinical evidence demonstrated that MV140 dramatically lowered the infection rates in RUTI patients

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	<p>[20].- stick to one rUTI/ RUTI??</p> <p>In "Recurrent urinary tract Infection in women" Keren E Wales, Lauren, Thomas Gray et al --Rewrite</p> <p><i>E. coli</i>, <i>K. pneumoniae</i>, <i>P. mirabilis</i>, and <i>E. faecalis</i> - italicize</p> <p>It needs more research to be compared to the finest antimicrobial therapy currently on the market[21].- ---what does the "it" refer to?</p> <p>In research paper titled "MV140 mucosal bacterial vaccine improves uropathogenic <i>E. coli</i> clearance in an experimental model of urinary tract infection" Paula Saz -Leal, Marianne M Ligon, et al - Rewrite</p> <p>has demonstrated long-term efficacy in preventing recurrent UTIs in women for as long as a year of follow-up . According to preclinical research- check spacing</p> <p>Nevertheless, there isn't ---Is not</p> <p>any concrete proof that MV140 can fend off UTIs in lab settings--laboratory</p> <p>shield against strains of UPEC that aren't in the MV140 formulation[22]- are not</p> <p>Néha Sihra ,Sachin Malde, Tamsin Greenwell et al According to the study titled "Management of recurrent urinary tract infections in women" - Re-write</p> <p><i>Enterococcus faecalis</i>, <i>Proteus vulgaris</i>, <i>Klebsiella pneumoniae</i>, and <i>E. coli</i>,-Italicize</p> <p>In a study titled "New Strategies for the Prevention of Urinary Tract Infections by Uropathogenic <i>Escherichia coli</i>" Juan Xicohtencatl-Cortes, Sara A. Ochoa et al -Re-write</p> <p>reports came to opinion- Re-write</p> <p>In " Sublingual vaccination with MV140 prevents recurrent urinary tract infections in women: Preliminary results from a randomized, double-blind, placebo-controlled trial" Miguel Casanovas, Paula Saz-Leal et al -----Re-write</p> <p>CONCLUSION</p> <p>Urinary tract infections - capitalize each word</p> <p>But the main cause of UTIs is Gram-negative bacteria, namely <i>Escherichia coli</i> (UPEC) ----italicize</p> <p><i>Klebsiella pneumoniae</i>--italicize</p> <p>The vaccination then moves on to other mucosal regions of the body,---Rewrite</p> <p>88 - write in words</p> <p>When Uromune® - can it be written without the symbol?</p> <p>REFERENCE</p> <ol style="list-style-type: none">1. Brito- Goulart D. Urinary tract infection caused by antibiotic-resistant uropathogenic <i>Escherichia coli</i>: a major public health concern.- Re-write2. Kanabar S, Foley SJ, Yang B. PD63-01 evaluating the safety and effectiveness of UROMUNE® bacterial vaccine over a 9-year period in the UK: A study on managing recurrent UTI in men and women Re-write3. Nickel JC, Lorenzo-Gómez MF, Foley S, Saz-Leal P. PLLBA-02 A novel sublingual vaccine will dramatically alter the clinical management of recurrent urinary tract infections in women. The Journal of Urology. 2021 Sep; 206(Supplement 3):e1181-. Re-write	
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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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