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romune - vaccine

Composition and administration of MV140 mucosal vaccine for rUTIs.

Composition

Four whole-cell inactivated bacteria

- *Escherichia coli* (25%)
 - *Klebsiella pneumoniae* (25%)
 - *Proteus vulgaris* (25%)
 - *Enterococcus faecalis* (25%)
-

Administration

- Sublingual route
 - Self-administered
 - 2 sprays under the tongue once daily
 - 3-month treatment
-



Protection against
recurrent UTIs



Fully
funded

New Zealand's only FULLY FUNDED urinary tract antibacterial

Have you had two or more urinary tract infections diagnosed by your doctor in the last 12 months?

Yes, so you may have a recurrent urinary tract infection (UTI). UTIs are very common, particularly in women and the elderly. 50-70% of women will experience a UTI in their lifetime, of this group up to 30% suffer from recurrent UTIs.

Speak to your Healthcare Professional about effective protection against recurrent UTIs.

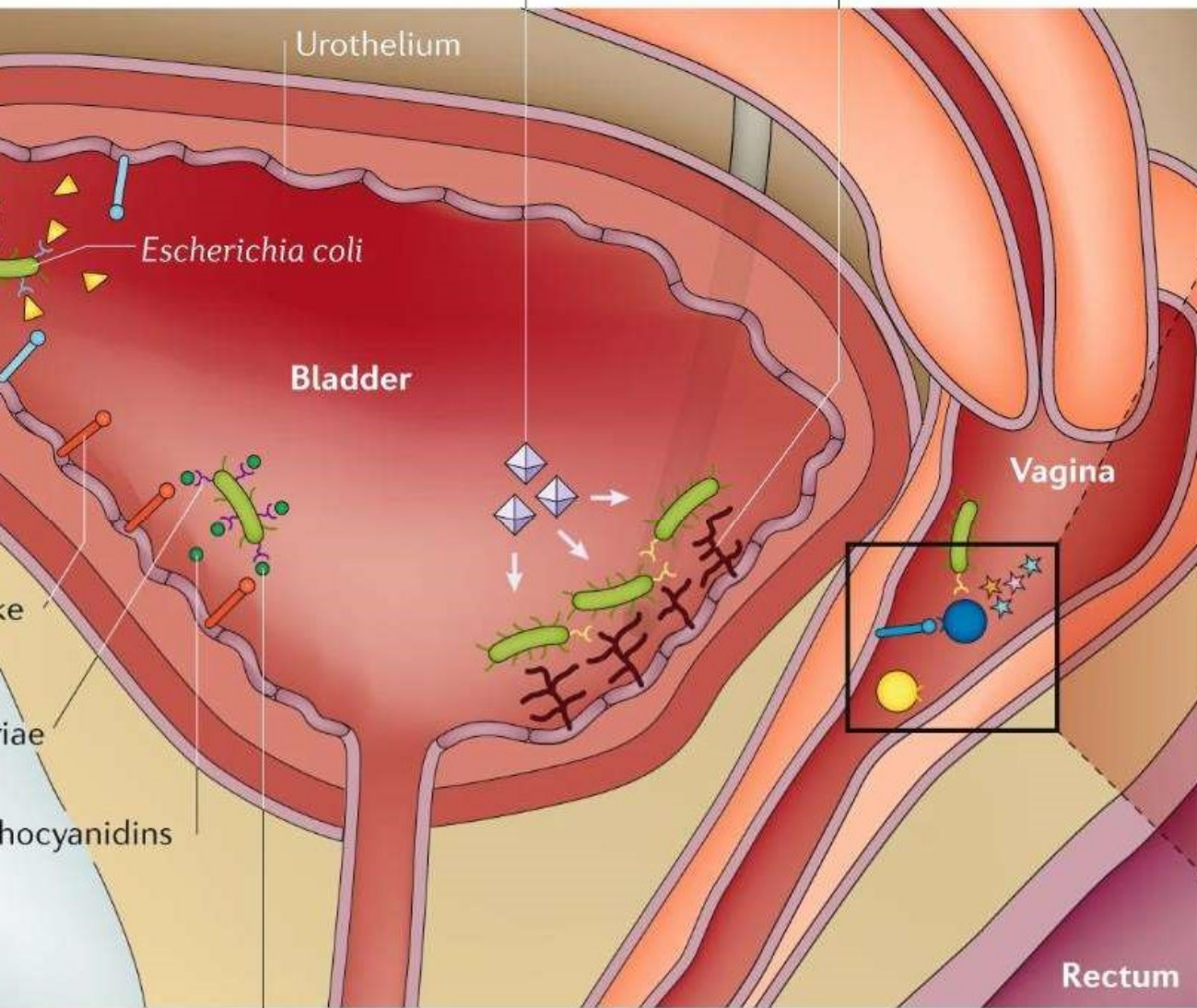


Preventing *Escherichia coli* binding to receptors

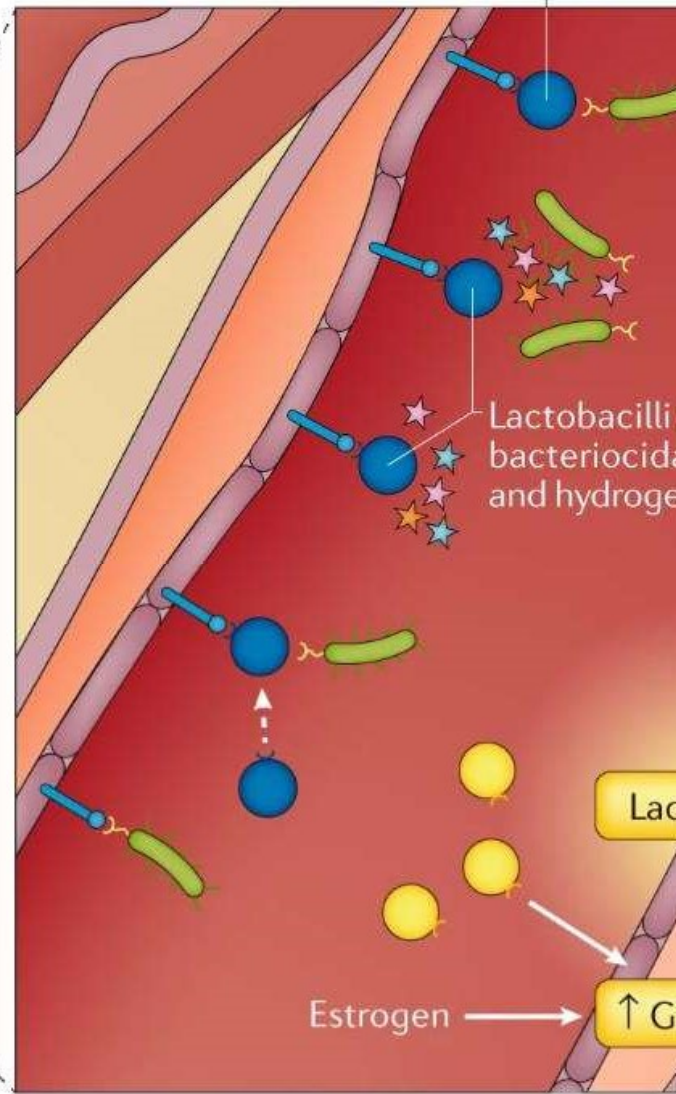
Formaldehyde produced from methenamine hippurate prevents further bacterial growth

Glycosaminoglycan layer replacement preventing bacterial adherence

Lactobacilli preventing binding of *Escherichia coli* to vaginal epithelial adhesion receptors



Proanthocyanidins from cranberry preventing *Escherichia coli* binding to urothelial receptors



Estrogen causing increased glycogen storage and conversion of glycogen to lactic acid by lactobacilli

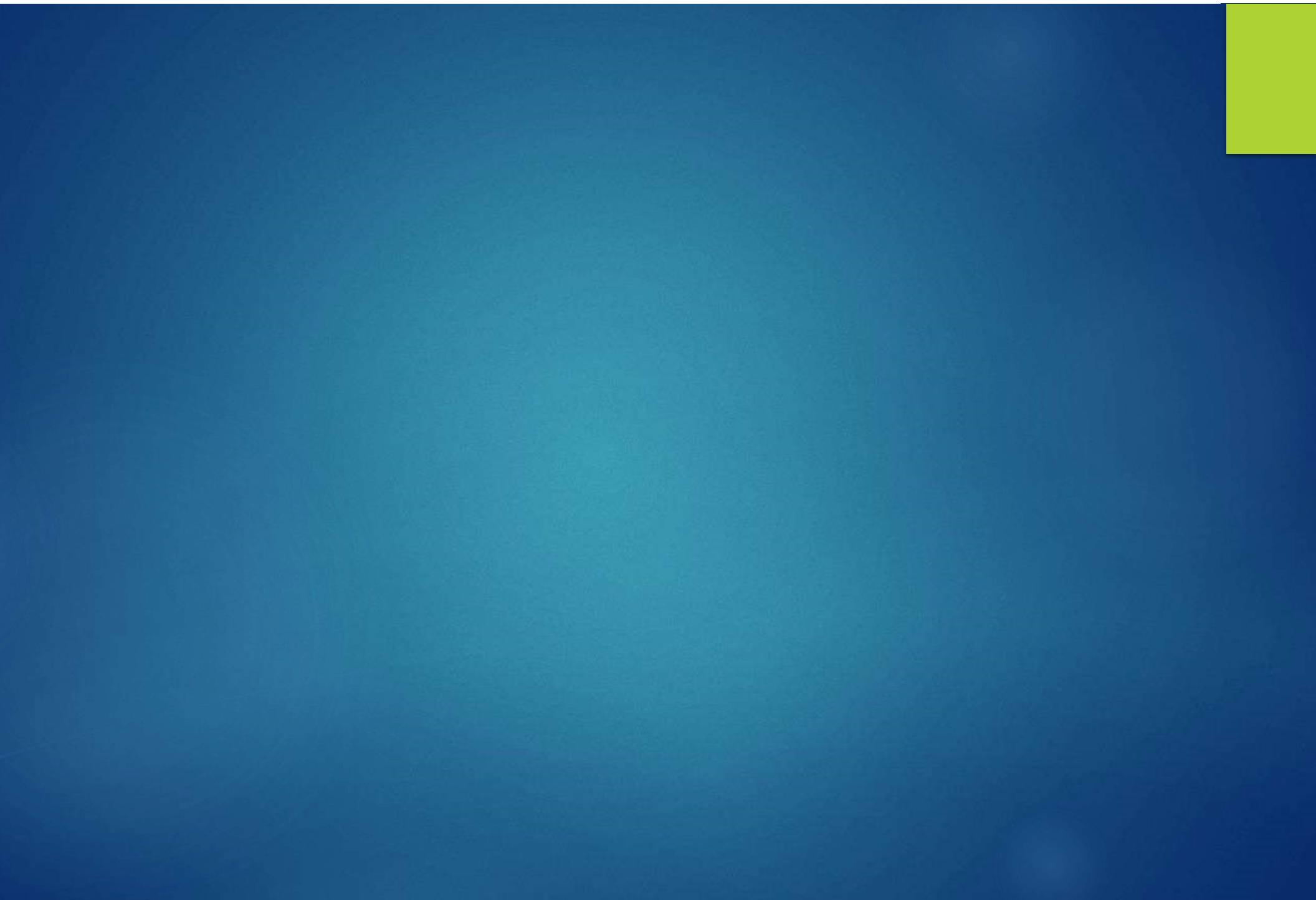
Antibiotics

- ▶ Self start antibiotics – 3 days
- ▶ Post intercourse antibiotics – single dose
- ▶ Low dose long term antibiotic



Referral to Urology

- ▶ previous urinary incontinence surgery.
- ▶ previous radiation treatment or pelvic cancer, as there is increased risk of fistula formation, radiation cystitis, or transitional cell carcinoma.
- ▶ abnormal upper tract ultrasound or CT.
- ▶ macroscopic haematuria.
- ▶ spinal cord injury patient.
- ▶ lower urinary tract symptoms, pneumaturia/fecaluria
- ▶ not responding to prophylactic antibiotics.
- ▶ persistent bladder pain.



Case 2 - History

- ▶ 52yo fit woman presents with worsening complaints of urinary leakage. How will you assess her?
- ▶ Type of incontinence – stress vs urge vs mixed
- ▶ Pad use
- ▶ ICIQ-SF
- ▶ Voiding
- ▶ Bowels
- ▶ Red flags

Anatomically shaped for the female anatomy; the incontinence pad provides comfortable and functional waterproof and absorbent protection against light-to-moderate urinary incontinence leakage and menstrual flow (use dark pad).

- ✓ **Full-absorbent** inner-layer
- ✓ **250ml**
- ✓ **Full-waterproof** ribbing and backing
- ✓ 100% brushed cotton
- ✓ Length: **26cm** (kids) **31cm** (adult)
- ✓ **Light urinary** incontinence, **Period Pad**
- ✓ Day time use



Initial number

ICIQ-SF

CONFIDENTIAL

DAY MONTH YEAR

Today's date

Many people leak urine some of the time. We are trying to find out how many people leak urine, and how much this bothers them. We would be grateful if you could answer the following questions, thinking about how you have been, on average, over the PAST FOUR WEEKS.

1 Please write in your date of birth:

DAY MONTH YEAR

2 Are you (tick one):

Female Male

3 How often do you leak urine? (Tick one box)

- never 0
- about once a week or less often 1
- two or three times a week 2
- about once a day 3
- several times a day 4
- all the time 5

4 We would like to know how much urine you think leaks.

How much urine do you usually leak (whether you wear protection or not)?
(Tick one box)

- none 0
- a small amount 2
- a moderate amount 4
- a large amount 6

5 Overall, how much does leaking urine interfere with your everyday life?

Please ring a number between 0 (not at all) and 10 (a great deal)

0 1 2 3 4 5 6 7 8 9 10
not at all a great deal

ICIQ score: sum scores 3+4+5

6 When does urine leak? (Please tick all that apply to you)

- never – urine does not leak
- leaks before you can get to the toilet
- leaks when you cough or sneeze
- leaks when you are asleep
- leaks when you are physically active/exercising
- leaks when you have finished urinating and are dressed
- leaks for no obvious reason
- leaks all the time

Thank you very much for answering these questions.

Stress urinary incontinence

- ▶ Stress urinary incontinence (SUI) is a common problem experienced by many women.

Definition:

- ▶ Complaint of involuntary loss of **urine** on effort or physical exertion including sporting activities, or on sneezing or coughing.
- ▶ SUI can have a significant negative impact on the quality of life (QOL) of not only those who suffer from the condition, but also potentially on those friends and family members

Definition – urgency/frequency

▶ Urgency

- ▶ complaint of a sudden, compelling desire to pass urine which is difficult to defer.

▶ Urinary frequency

- ▶ measured with a voiding diary.
- ▶ Traditionally, up to seven micturition episodes during waking hours has been considered normal, but this number is highly variable based upon hours of sleep, fluid intake, comorbid medical conditions and other factors.

Case 2 - Examination

- ▶ BMI
- ▶ Abdo exam
- ▶ Neuro exam
- ▶ Gynae
 - ▶ urethra,
 - ▶ urine leakage on coughing/Valsalva
 - ▶ Prolapse
 - ▶ Pelvic floor muscle