

**URINARY TRACT
INFECTIONS (UTI)
GROUP DISCUSSION
Microbiology &
Immunology Department**

Case 1

A 22-year-old female presents with dysuria, frequency and urgency. **What is the main cause of community-acquired urinary tract infections?**

- A. *Staphylococcus saprophyticus*
- B. *Escherichia coli*
- C. *Proteus mirabilis*
- D. *Enterococcus faecalis*

Case 2

A 78-year-old patient with an episode of acute urinary retention was catheterized. Three days later, he developed fever and suprapubic pain. Culture of the urine revealed swarming on nutrient agar plate, and the urease test was positive. **Which of the following is the most likely organism to cause this infection?**

- (A) *E. faecalis*
- (B) *E. coli*
- (C) *H. pylori*
- (D) *P. mirabilis*

Case 3

- A 23-year-old woman visits her physician with burning and pain upon urination, and increased frequency and urgency of urination. She states she recently returned from her honeymoon. Her vital signs are normal and mild suprapubic tenderness is noted on physical examination. Clean-catch midstream urine demonstrates the presence of $\geq 10^5$ CFU/mL of a catalase-positive, coagulase-negative organism that grew on blood agar but not on MacConkey agar. **Which of the following is the most likely etiological agent of this infection?**

1. *Pseudomonas aeruginosa*
2. *Streptococcus agalactiae*
3. *Staphylococcus aureus*
4. *Staphylococcus saprophyticus*



**THANK
YOU!**