

**Abstract Submission No.: A-1216**

## **A Case Report Of Enterococcus Casseliflavus Peritoneal Dialysis-Associated Peritonitis**

**Sze Mun Tan**<sup>1</sup>, Yon Quan Chan<sup>1</sup>, Mohd Khairul Izzati Omar<sup>2</sup>, Koh Wei Wong<sup>1</sup>

<sup>1</sup>Department of Internal Medicine-Nephrology, Hospital Queen Elizabeth, Malaysia

<sup>2</sup>Department of Pathology - Microbiology, Hospital Queen Elizabeth, Malaysia

**Case Study :** Enterococci which are resistant to vancomycin are becoming important pathogens. We report the first case of peritoneal dialysis (PD) related peritonitis caused by *Enterococcus casseliflavus* in Hospital Queen Elizabeth (HQE), a tertiary hospital in Sabah, Malaysia. Our patient is a 61-year-old gentleman, who was on continuous ambulatory peritoneal dialysis (CAPD) for 8 months. The likely cause for his end stage kidney disease (ESKD) was diabetes mellitus. Despite his poor eyesight, he was still performing PD exchanges. He was admitted for *Klebsiella pneumoniae* PD peritonitis. He was given the appropriate antibiotic and had responded well. However, on day 11 of treatment, he had cloudy PD effluent again. Sample of PD effluent was collected and was sent for culture. Blood agar grew colonies which stained positive for Gram positive cocci in chain and possessed yellowish pigmentation on a cotton swab. The colony was identified as *Enterococcus casseliflavus* by VITEK® MS bioMérieux and susceptibility was tested by using VITEK® 2 AST card bioMérieux. The organism was resistant to vancomycin, however, it had confirmed susceptibility to ampicillin and gentamicin. Our patient was given three weeks of intraperitoneal ampicillin and was successfully treated without the need of removing his PD catheter. *E. casseliflavus* possesses the *vanC* ligase gene, which encodes for intrinsic resistance to vancomycin. Similarly, the *vanC* ligase gene had also been described in *E. mundtii* and *E. flavescens*. They usually demonstrate susceptibility to ampicillin. Hence, in the case of *E. casseliflavus* infections, ampicillin is a suitable antimicrobial agent. In 2023, there were 9 cases of Enterococcal peritonitis in HQE, in which 1 required PD catheter removal. We wish to highlight that although an organism demonstrated resistance to vancomycin, it does not necessarily mean that high-end antibiotic such as linezolid is needed. The usage of antibiotic should still be guided by sensitivity testing.

Enterococcus Casseliflavus 1.jpeg



Enterococcus Casseliflavus 1.jpeg

