

V.vulnificus Peritonitis in a Patient Receiving CAPD after Eating Raw Seafood

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Introduction : Raw shellfish-associated *Vibrio* infection often occur in person with chronic liver disease, alcoholism, immunodeficiencies, hemochromatosis or other iron overloading state. End-stage renal disease has been identified as a possible risk factor, but there are few reports of such cases. We describe an episode of peritonitis by *V. vulnificus* after eating raw seafood in a patient receiving CAPD. There is only one report on *V. vulnificus* peritonitis in CAPD patients.

Case Report : A 63-year-old man receiving CAPD was admitted to our hospital with abdominal pain, cloudy peritoneal fluid. His underlying renal disease was diabetes mellitus. He had a no history of peritonitis. He was nondrinker and had no known history of liver disease. He was treated with erythropoietin, but no iron therapy. On the second days before hospital admission, he ate raw butterfishes harvested in the Pacific coast. On admission, his body temperature was 36.4 °C. there was tenderness in the lower abdomen, but the exit site of peritoneal catheter was clean. Cloudy peritoneal fluid with an elevated peritoneal fluid cell count (WBC > 1,000/μL, predominantly to neutrophils) was found. He was treated empirically with intraperitoneal cefazolin and tobramycin after blood and peritoneal effluent specimens were obtained for culture. Soon after the start of empirical antibiotics therapy, abdominal pain improved and peritoneal effluent gradually cleared. Dialysate effluent culture revealed *V. vulnificus*. After receiving culture result, intraperitoneal cefazolin was discontinued, and oral doxycyclin was added to intraperitoneal tobramycin regimen. Antibiotics therapy was continued for 2 weeks, and he recovered completely.

Conclusion : End-stage renal disease may have an increased risk of infection with *V. vulnificus*. And CAPD peritonitis represents another important clinical manifestation of *V. vulnificus* infection. Thus we should educate our CAPD patients to avoid eating raw seafood