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**Continuous ambulatory peritoneal dialysis (CAPD) peritonitis with severe
bowel edema caused by *Morganella morganii***

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Case Study: A-65-year-old man on continuous ambulatory peritoneal dialysis (CAPD) developed abdominal pain and turbid peritoneal fluid. He presented ongoing constipation for 5 days. The patient had been on CAPD for 2 years with one episode of peritonitis (caused by *Enterobacter agglomerans* 22 months ago). He had past history of liver cirrhosis, B viral hepatitis, type 2 diabetes and coronary artery disease. On presentation, he was afebrile, with a blood pressure of 80/50 mmHg. Abdominal examination showed diffuse generalized tenderness, associated with decreased bowel sound and diffuse abdominal wall edema. No expressible infection sign was observed at the catheter exit site. The white blood cell (WBC) count was 1,1090 cells/ μ L, C-reactive protein level was 8.98 mg/dl and the WBC count of the peritoneal fluid was 5,950 cells/ml (with 76% polymorphonuclear neutrophils (PMN)), suggesting acute CAPD peritonitis. Empiric antibiotic therapy for PD-associated peritonitis was initiated with intraperitoneal (IP) cefazolin and amikacin. Initial culture from peritoneal fluid grew *Morganella morganii* sensitivity to piperacillin/tazobactam, ceftazidime, amikacin, ciprofloxacin and so on. Peritoneal fluid leukocyte count decreased to 356 cells/ μ L on hospital day 2. However, on 3rd hospital day peritoneal WBC count increased 1,270 cells/ μ L (78% PMN) and abdominal pain persisted without any improvement. Computer tomography showed severe bowel edema. We changed antibiotics to ceftazidime and amikacin following culture result. On 11 hospital day WBC count decreased to 7 cells/ μ L and there was no growth in peritoneal fluid culture. After 3 weeks of antibiotics and fluid therapy patients were discharged.

culture



RNA Sequencing

Hit taxon name	Hit strain name	Accession	Similarity (%)	Diff/Total nt	Hit taxonomy	Completeness (%)
<i>Morganella morganii</i> subsp. <i>sibonii</i>	DSM 14850(T)	DQ358146	99.26	10/1344	Bacteria;Proteobacteria;Gammaproteobacteria;Enterobacterales;Morganellaceae;Morganella;Morganella morganii	92.6
<i>Morganella morganii</i> subsp. <i>morganii</i>	ATCC 25830(T)	AJ301681	99.22	11/1404	Bacteria;Proteobacteria;Gammaproteobacteria;Enterobacterales;Morganellaceae;Morganella;Morganella morganii	100.0
<i>Morganella psychrotolerans</i>	U2/3(T)	DQ358135	98.44	21/1345	Bacteria;Proteobacteria;Gammaproteobacteria;Enterobacterales;Morganellaceae;Morganella	92.6
<i>Providencia rettgeri</i>	DSM 4542(T)	AM040492	96.72	46/1403	Bacteria;Proteobacteria;Gammaproteobacteria;Enterobacterales;Morganellaceae;Providencia	100.0