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**Title: Risk factor of peritonitis in peritoneal dialysis patient**

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**Abstract:** Introduction: Peritoneal dialysis is usually used for patients with chronic renal failure leading to peritonitis which is the most common and sever complications. In this study, we evaluated the prevalence of peritonitis in patients undergoing peritoneal dialysis in southeast of Iran 5 periods (2002-2007).

Methods: A retrospective study was conducted to evaluate 49 patients undergoing peritoneal dialysis. Data including the time of beginning of dialysis, the number of dialysis, patient's symptoms, smear and culture of peritoneal fluid were registered.

Results: In 46 patients undergoing peritoneal dialysis, 27 (55.1%) of them were male with 32.22 ± 15.81 years of mean age. Twenty-seven (55.1%) patients had documented peritonitis. Peritonitis occurred once in 14 (26.9%) patients, twice in 7 (13.4%) patients, thrice in 3 (5.7%) cases, four times in 2 (3.8%) cases and seven times in 1 (1.9%) of all the patients. Bacterial peritonitis was observed in 46 (88.4%), chemical peritonitis in 3 (5.7%), fungal peritonitis in 2 (3.84%), and tuberculosis peritonitis in 1 (1.92%) of all the patients. Staphylococcal peritonitis was the most common form of bacterial peritonitis. There was a correlation between hypoalbuminemia and peritonitis that was not statistically significant. (P=0.373). Correlation between peritonitis and anemia that was statistically significant was observed (P=0.000). There was not any correlation between diabetes mellitus and peritonitis (P=0.299)

Conclusion: Peritonitis is one of the most common complications of peritoneal dialysis. More than 50% of our patients revealed this complication after peritoneal dialysis. Staphylococcal peritonitis was the most common bacterial infections. Further studies are required to determine the anti-microbial resistance of the organisms responsible for peritonitis in these circumstances.

**Peritoneal dialysis, peritonitis, prevalence**

**Presentation:** Poster