Choice of Drain Systems and Associated Peritonitis Rates in Automated Peritoneal Dialysis Patients

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Introduction

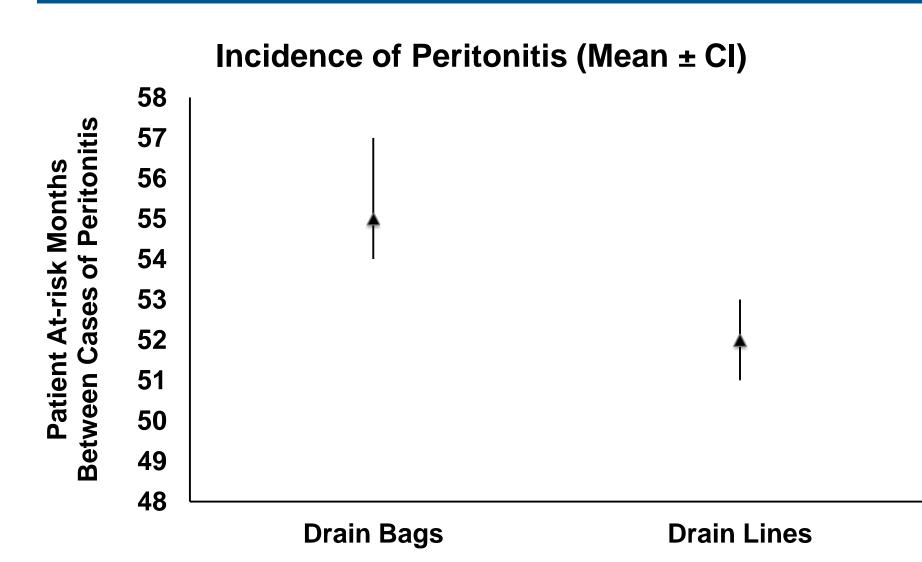
Is there a higher risk of peritonitis with the use of drain lines or drain bags?

- 65% of large dialysis organization (LDO) patients use drain bags
- Objective: compare peritonitis risk between use of drain lines vs. drain bags.

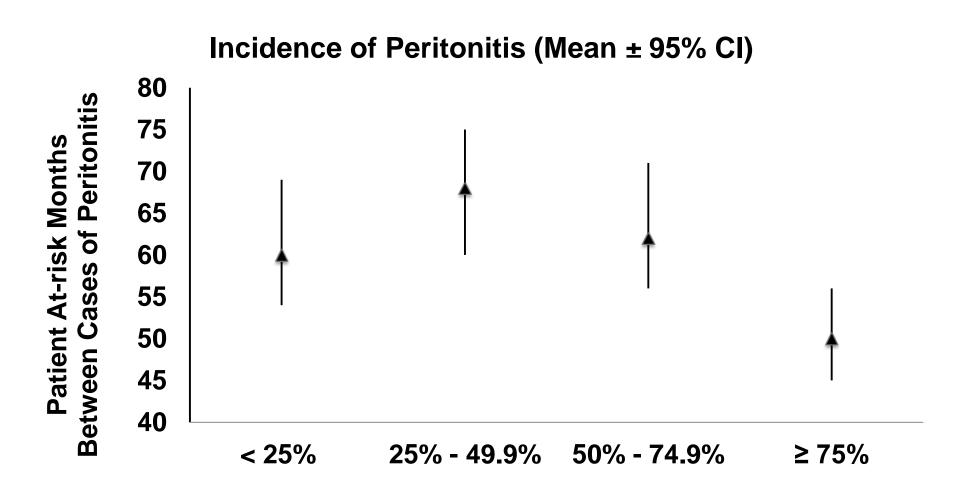
Methods

- Standard algorithm for peritonitis surveillance¹
- All automated peritoneal dialysis (APD) patients Jan 2011 through Jun 2013
 - Only patients using 1 national supplier (~98%)
 - Patients ordering drain bags at least 2 out of 3 months classified as a drain bag patient, and patients consistently not ordering drain bags classified as a drain line patient
- Matched by patient identifier to drain system
 - Supplier ordering data
 - Removed patients with no clear system match
 - Final n = 15,532 patients

Results: Patient by Patient



Results: Aggregated per Clinic



Percent of Patients at Each Clinic Using Drain Bags

Discussion

- Drain bags have a negative patient exp. impact
 - Lifting and carrying up to 33 lbs every morning
 - Forces interaction with spent fluid on a daily basis
 - Additional storage space required
 - Additional daily connection
- Drain bags have negative environmental impact
 LDO generates 8-tons of plastic waste per year
- Daily drain bag use increases cost per day

Conclusion

- There is no evidence of a clinically significant higher peritonitis risk based on drain system choice
- Considerations in choosing whether to use drain bags or drain lines
 - Improved patient experience
 - Environmentally responsible
 - Lower cost of care



Questions and Answers