

Accepted Manuscript

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PII: S1477-5131(18)30027-5

DOI: [10.1016/j.jpurol.2017.11.024](https://doi.org/10.1016/j.jpurol.2017.11.024)

Reference: JPUROL 2735

To appear in: *Journal of Pediatric Urology*

Received Date: 16 June 2017

Accepted Date: 20 November 2017

Please cite this article as: Kajbafzadeh A-M, Sabetkish N, Sabetkish S, Establishment of colonic dialysis model in uremic rats by right nephrectomy and left partial nephrectomy, *Journal of Pediatric Urology* (2018), doi: 10.1016/j.jpurol.2017.11.024.

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Establishment of colonic dialysis model in uremic rats by right nephrectomy and left partial nephrectomy

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Summary

Background

Conventional treatments for patients suffering with end-stage renal disease (ESRD) has several disadvantages, highlighting the importance of other reproducible modalities such as colonic dialysis (CD).

Objectives

The aim was to establish a CD model in uremic rats and evaluate the effect of two different peritoneal dialysis (PD) solutions.

Methods

Thirty-two male Wistar rats were randomly divided into four groups. After right nephrectomy and left partial nephrectomy, a Malone antegrade continence enema (MACE) stoma was created. Seven days after the procedure, blood sampling was performed. In group I ($N = 8$) no postoperative intervention was performed. In group II ($N = 8$), CD was started through the MACE stoma by a low osmolar PD solution. Rats of group III ($N = 8$) underwent the same procedure with a high osmolar PD solution. Rats

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