# letters to the editor

ESRD was serum creatinine at biopsy.<sup>5</sup> However, the different outcomes of the two cases we and Dr. Gioacchino Li Cavoli exhibited reveal that the histological finding is more reliable to predict the prognosis. As Dr. Gioacchino Li Cavoli mentioned in the comment, the importance of recognizing the patients with membranous nephropathy and crescentic glomerulonephritis at early stage of the disease is that early immunosuppressive treatment may ameliorate the progression of renal damage and may contribute to the useful recovery of renal function.

Watanabe S et al. demonstrated that the patient had MPO-ANCA-associated glomerulonephritis superimposed on idiopathic membranous nephropathy in the coexistence of MGN and ANCA-associated glomerulonephritis.6 It is well recognized that ANCA-positive patient may develop ANCA-related crescentic glomerulonephritis; however, the immunopathogenesis of crescentic transformation in ANCA-negative patients with primary membranous nephropathy seemed to be more difficult to elucidate. Whether there are some other undetected autoantibodies involved in the pathogenesis of MGN accompanied by

ANCA-negative crescentic glomerulonephritis remains unclear. Therefore, further research is required to clarify the pathogenesis of this rare concomitance and investigate the optimum treatment regimes for it.

### **Conflict of interest**

The authors declare that there is no conflict of interest associated with this manuscript.

- Kwan JT, Moore RH, Dodd SM, Cunningham J. Crescentic transformation in primary membranous glomerulonephritis. Postgrad Med J 1991;67:574-6.
- Taniguchi Y, Yorioka N, Kumagai J, Ito T, Yamakido M, Taguchi T. Myeloperoxidase antineutrophil cytoplasmic antibodypositive necrotizing crescentic glomerulonephritis and membranous glomerulonephropathy. Clin Nephrol 1999;52(4):253-5.
- Zhou GY. Membranous glomerulonephritis associated with myeloperoxidase antineutrophil cytoplasmic antibody-associated glomerulonephritis. Nefrologia 2012;32:548-51.
- Kanahara K, Yorioka N, Nakamura C, Kyuden Y, Ogata S, Taguchi T, et al. Myeloperoxidase-antineutrophil

cytoplasmic antibody-associated glomerulonephritis with membranous nephropathy in remission. Intern Med 1997;36:841-6.

- Nasr SH, Said SM, Valeri AM, Stokes MB, Masani NN, D'Agati VD, et al. Membranous glomerulonephritis with ANCA-associated necrotizing and crescentic glomerulonephritis. Clin J Am Soc Nephrol 2009;4:299-308.
- Watanabe S, Arimura Y, Nomura K, Kawashima S, Yoshihara K, Kaname S, et al. [Case of MPO-ANCA-associated vasculitis with membranous nephropathy]. Nihon Jinzo Gakkai Shi 2011;53:46-52.

#### Guang-Yu Zhou<sup>1</sup>, Li-Rong Bi<sup>2</sup>

<sup>1</sup> Department of Nephrology. China-Japan Union Hospital of Jilin University. Changchun, Jilin Province (China).

<sup>2</sup> Department of Pathology. First Hospital of Jilin University. Changchun, Jilin Province (China).

**Correspondence:** Guang-Yu Zhou Department of Nephrology, China-Japan Union Hospital of Jilin University, No.126, Xiantai Street, 130033, Changchun, Jilin Province, China.

guangyu8@yahoo.com.cn zhougy@jlu.edu.cn

## **B) BRIEF PAPERS ON RESEACH AND CLINICAL EXPERIMENTS**

# Laparoscopy as an effective technique for peritoneal catheter placement

Nefrologia 2013;33(1):137-8

doi:10.3265/Nefrologia.pre2012.Oct.11684

### To the Editor:

Peritoneal dialysis (PD) is one of the treatment options available for replacing renal function in patients with chronic renal failure.

The success of PD as a dialysis technique depends heavily on correct

catheter placement into the peritoneal cavity. Several different methods are available for this purpose: laparoscopy, the percutaneous approach using the Seldinger technique or trocars, and surgical.1 No evidence exists regarding which technique provides the best results, although each technique obviously involves certain advantages and disadvantages. Purely surgical approaches require the availability of surgeons, operating rooms, and anaesthesia. Percutaneous techniques can be performed by nephrologists and/or radiologists in a properly equipped room, which obviates the need for waiting lists.<sup>2</sup> Recent results were published regarding the safety of laparoscopy as compared to open surgery and regarding radiologistassisted percutaneous techniques.<sup>3,4</sup> Despite these advances, surgical techniques continue to be the most commonly used.

We enjoy a tight collaboration with the general surgery department at our hospital, which has led to our use of laparoscopy as the technique of choice. Here, we present our experience in the placement of peritoneal catheters.

# letters to the editor

### **MATERIAL AND METHOD**

We reviewed 80 patients who received PD catheters between January 2007 and January 2012. Demographic and clinical data were collected prospectively.

**Demographic data:** The sample consisted of 46 males and 34 females, with a mean age of 57 years (range: 18-91 years).

Surgical technique: The intervention took place in a conventional surgical operating room. Under general anaesthesia and a sterile operating field, a 12mm Hasson trocar was placed in the supra-umbilical zone for the insertion of a 30° laparoscopic camera. Next, pneumoperitoneum at 12mmHg of pressure was achieved. The peritoneal cavity was explored, in particular the lower pelvis, looking for large zones free of adhesions for optimal catheter placement. A second 5mm laparoscopic trocar was inserted in the left para-rectal zone. The catheter was inserted with a guide through this second trocar. Under the visual control provided by the laparoscopic camera, the point of the catheter was advanced until reaching the ideal location in the pouch of Douglas. Only rarely, the presence of adhesions or connective tissue required the insertion of a third 5mm trocar in order to use instrumentation (forceps, hooks, or scalpel) in order to dissect and cauterise the impeding structures. After removing the guide and trocar, the internal catheter cuff was left in the zone immediately below the musculature. Finally, a subcutaneous tunnel was created for the distal end of the catheter.

### RESULTS

A total of 89 surgeries were performed. In 9 cases, we documented poor catheter function during the first couple of weeks after catheter placement (less than 15 days). All of these cases required a second laparoscopic procedure due to the inability to recover the catheter through conservative techniques. In all of these cases, the catheter became trapped by the omentum or adhesions. A new catheter was placed, in addition to an omentectomy and clearing of adhesions. We did not observe any cases of infection of the catheter orifice, peritonitis, immediate hernia, haemoperitoneum, or death as an immediate consequence of the interventions.

Mean catheter survival during this period was 42 months, with a 95% confidence interval of 36.8-58.7 months (Figure 1).

#### CONCLUSIONS

- Laparoscopy is a safe technique with very good results for long-term catheter functioning.
- The primary issues immediately following catheter placement were secondary to poor catheter functioning, above all due to omental trapping. We did not observe any severe complications.

## **Conflicts of interest**

The authors declare that they have no conflicts of interest related to the contents of this article.

 Chow KM, Szeto CC, Leung CB, Kwan BC, Pang WF, Li PK. Tenckhoff catheter insertion by nephrologists: open dissection technique. Perit Dial Int 2010;30:524-7.

- Brunier G, Hiller JA, Drayton S, Pugash RA, Tobe SW. A change to radiological peritoneal dialysis catheter insertion: three-month outcomes. Perit Dial Int 2010;30:528-33.
- Moon JY, Song S, Jung KH, Park M, Lee SH, Ihm CG. Fluoroscopically guided peritoneal dialysis catheter placement. Long-term results from a single centre. Perit Dial Int 2008;28:163-9.
- García-Cruz E, Vera-Rivera M, Corral Molina JM, Mallafré-Sala JM, Alcaraz A. Colocación de catéter de diálisis peritoneal por laparoscopia: descripción y resultados de una técnica propia de dos puertos. Nefrologia 2010;30(3):354-9.

### Isabel García-Méndez<sup>1</sup>, Diana Faur<sup>1</sup>, Ramon Farrès<sup>2</sup>, Antoni Codina<sup>2</sup>, Servicio de Cirugía General del Hospital Universitari Dr. Josep Trueta.

 <sup>1</sup> Unidad de Nefrología. Hospital Universitari Dr. Josep Trueta. Girona (Spain).
<sup>2</sup> Servicio de Cirugía General. Hospital Universitari Dr. Josep Trueta. Girona (Spain).
Correspondence: Isabel García Méndez

Unidad de Nefrología.

Hospital Universitari Dr. Josep Trueta, Girona. (Spain).

isabel0408@yahoo.es



Figure 1. Survival.