



cal techniques are no longer contraindications, especially when kidneys are provided by living donors.

#### **Conflicts of interest**

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

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## letters to the editor

### Abandonment of peritoneal dialysis due to peritonitis: Have the responsible agents changed? Our experience

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### To the Editor:

Peritonitis is the primary cause of morbidity, mortality, and technique failure in patients on peritoneal dialysis (PD). More than one-fourth of all patients suffer a case of peritonitis at some point that requires interruption of PD and transferral of the patient to haemodialysis.<sup>1</sup>

In this context, we performed a retrospective study to evaluate the prevalence and aetiology of cases of peritonitis that have occurred in our department during the last 20 years.

We included all patients who abandoned PD during the study period due to peritonitis. We established two study periods of 10 years each, with the dividing point between them characterised by changes to antibiotic protocols, the use of antifungal prophylaxis, and advancements in hook-up technology.

Peritonitis was the third-leading cause of abandoning PD (15%), surpassed only by transplantation (43%) and death (22%).

A total of 13 cases of peritonitis caused interruption of PD during the first time period (A) and 14 in the second period (B). The causative agents of these cases of peritonitis are described in the Table 1. We observed a notable change in the aetiology of the cases of peritonitis between the two study periods; infection by *S. aureus* predominated in period B, as compared to predominantly fungal and gram-negative bacterial infections in the first period.

Cases of peritonitis caused by gramnegative bacteria and fungi are the primary infectious causes of abandoning PD,<sup>2</sup> as we observed in period A.

# letters to the editor -

 Table 1. Actiology of cases of peritonitis that caused abandonment of peritoneal dialysis.

	Period A	Period B
Candida	5 (38%)	1
Gram-	5 (38%)	2
Pseudomonas	2	1
S. epidermidis	1	1
St. aureus	-	6 (43%)
Xanthomonas	-	1
Streptococcus	-	1
Pantoea aglomerans	-	1

In our study, the change in antibiotic protocols, with the advent of the use of intra-peritoneal ciprofloxacin, has produced a change in the relative frequencies of the various microorganisms responsible for the most aggressive types of peritonitis, thus significantly decreasing the rate of infection by gramnegative bacteria.

Cases of peritonitis caused by *S. aureus* are, in general, the most severe types of peritonitis caused by gram-positive bacteria, and these occur most commonly in patients with nasal *S. aureus* carriage or colonisation of the skin and hands, or in relation to colonisation and infection of the catheter outflow orifice.<sup>3</sup>

In our experience, we also observed an increase in the virulence of *S. aureus* that produced peritonitis in the second period, as this bacterium became the primary infectious cause of abandoning PD. We believe that resistance to vancomycin was the primary factor in impeding the resolution of these infections and thus the continuity of PD.

## **C) BRIEF CASE REPORTS**

## Proliferative glomerulonephritis with monoclonal IgG deposits in multiple myeloma

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This increase in the resistance to vancomycin will also require reformulating the antibiotic protocol, orientating treatment for the best coverage of gram-positive infections.

Fungal peritonitis constitutes between 1% and 15% of all peritonitis episodes occurring in patients on PD, although its incidence has decreased notably with the use of adequate preventative measures, such as the administration of fluconazole whenever antibiotics are prescribed to the patient for any reason.<sup>4</sup> This led to the decrease in the percentage of cases of peritonitis produced by fungi that caused patients to abandon PD from 38% in the first period to 7% in the second period.

The epidemiology of peritoneal infections is heavily influenced by the antibiotic regimens utilised in each hospital department, causing the frequency and resistance of the microorganisms responsible for these infections to vary over time. This requires a critical regimen of periodical changes to antibiotic protocols, changing and adapting them as needed to emerging scenarios of causative microorganisms and their acquired resistances.

#### **Conflicts of interest**

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### To the Editor:

Glomerular deposits of monoclonal immunoglobulins can arise as a condition secondary to a number of different entities, including AL amyloidosis, Randall type monoclonal immunoglobulin deposition disease (MIDD), type 1 cryoglobulinaemia, immunotactoid/fibrillar glomerulonephritis, and the most recently described, non-Randall type proliferative glomerulonephritis with monoclonal IgG glomerular deposits (MIgG PGN).<sup>1</sup>

Here we described the case of a patient with nephrotic syndrome and renal failure, whose examination led to the diagnosis of multiple myeloma and MIgG PGN.