



Assisted PD for a blind, type 1 diabetes patient with insulin pump – A case report

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Introduction

Insulin pump treatment (continuous subcutaneous insulin infusion; CSII) in type 1 diabetes patients is an effective and safe method for maintaining glycaemic control (1,2). In our dialysis centre, we have two peritoneal dialysis (PD) patients with type 1 diabetes mellitus treated on CSII therapy.

Objectives

To present the case of a 37 year old male patient suffering from type 1 diabetes since 1991.

Methods

The patient was initially treated with human insulin and subsequently with insulin analogues according to the intensified insulin therapy regimen. Due to higher glycaemic markers and marked fluctuations in the blood glucose values, CSII therapy was initiated in 2010. In 2008, the patient went blind. Diabetic nephropathy was also diagnosed at the same time initiating regular nephrological check-ups. With the deterioration of his renal function, we started to prepare our patient for renal replacement therapy; he chose PD modality due to his active lifestyle.

Results and Conclusion

A Tenckhoff catheter was implanted in October 2015 (Figure 1). Assisted PD treatments are conducted by the patient's mother due to his blindness. After initiation of PD treatment, the patient's glycaemic control appears optimal; furthermore, his status on the simultaneous pancreas-kidney transplantation waiting list is currently active.

Results and Conclusion

Peritoneal dialysis seems to be a good option to initiate renal replacement therapy. Insulin pump therapy has significantly improved the quality of life of type 1 diabetic patients. To choose these therapies that will best meet the patient's lifestyle and needs.

Despite his illness, our patient is able to maintain his active lifestyle.

References

1. J Clin Endocrinol Metab (2016) 101 (11): 3922-3937.
2. Diabetes Metab Res Rev. 2016 Jan; 32(1): 21-39.



Figure 1. Placement of exit-site of Tenckhoff catheter and the infusion set of insulin pump