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Peritoneal Dialysis Conversion as a Salvage Therapy for Refractory Intraocular Pressure Fluctuations During Hemodialysis in an End-Stage Kidney Disease Patient

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Case Study : Fluctuations in intraocular pressure (IOP) during hemodialysis (HD) have been a challenging and troublesome issue, particularly in patients with impaired aqueous humor outflow. In this report, we present the case of a 72-year-old male on hemodialysis with a history of glaucoma who experienced worsening IOP fluctuations during HD and subsequently achieved IOP stabilization after transitioning to peritoneal dialysis (PD). Despite medical management and surgical interventions, his IOP remained uncontrolled, and visual disturbances persisted. After the unsuccessful treatment with mannitol, we considered PD as an alternative therapy based on the its theoretical potential to stabilize osmotic disequilibrium. Conversion to PD resulted in stabilization of IOP within normal ranges. However, the preexisting visual damage remained irreversible. This report represents the first attempt to address IOP fluctuations by transitioning from HD to PD, offering an option for IOP regulation in dialysis patients. Moreover, it underscores the need for early and proactive adjustments in dialysis treatment to preserve vision and quality of life.

IOP Figure.png

Figure 1.