



Lecture Code : DN01-S1

Session Name : Dialysis Nurse Course 1

Session Topic : -

Date & Time, Place : June 22 (Sun) / 08:30-10:30 / Room 1+2 (GBR 101+102)

---

## 자동복막투석(APD)의 이해

**Young Sun Kang**

*Korea University Ansan Hospital, Republic of Korea*

---

Automated Peritoneal Dialysis (APD) is an emerging home-based dialysis treatment modality for patients with end-stage renal disease. The process involves the automatic infusion and drainage of dialysate fluid through a cyclor machine, typically during the night, allowing patients to maintain an active daily routine. Recent improvements in APD include enhanced cyclor machines with better fluid accuracy, integration of remote monitoring platforms enabling early detection of complications, and AI-driven prescription models that allow real-time adjustment of treatment parameters. Biocompatible dialysis solutions and improved connection systems have led to reduced peritonitis rates and improved peritoneal membrane preservation. Patient adherence and satisfaction have also increased due to greater treatment flexibility and support, leading the higher quality of life (QOL) of patients. The latest advancements in APD highlight a shift toward more personalized, efficient, and safer home dialysis therapy. These developments have the potential to improve long-term outcomes and broaden the applicability of APD in diverse patient populations.

**Keywords:** APD, AI, Biocompatibility, Peritonitis, Sustainability