

## MEMBRANE MODEL OF PERITONEAL BARRIER

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### Abstract

Peritoneal tissue, which structure is rather complicated, creates a barrier between blood and dialysate for transport of fluid and solutes during peritoneal dialysis. The aim of this study was to investigate to what extent peritoneal barrier can be modeled as a semipermeable membrane, which permits the application of thermodynamic description of fluid and solutes transport. Using data from the previous studies it has been demonstrated that peritoneal membrane model proved to be useful in interpretation of clinical and experimental on rats investigation. However, limitations of membrane model of peritoneal barrier have been specified.

**K e y w o r d s:** peritoneal dialysis, peritoneal membrane, transport of solutes, mathematical model