THE KOREAN SOCIETY OF NEPHROLOGY
APCN & KSN 2024
June 13(Thu) - 16(Sun), 2024 Coex, Seoul, Korea
Promoting Sustainable Kidney Health: The Asia-Pacific and Beyond

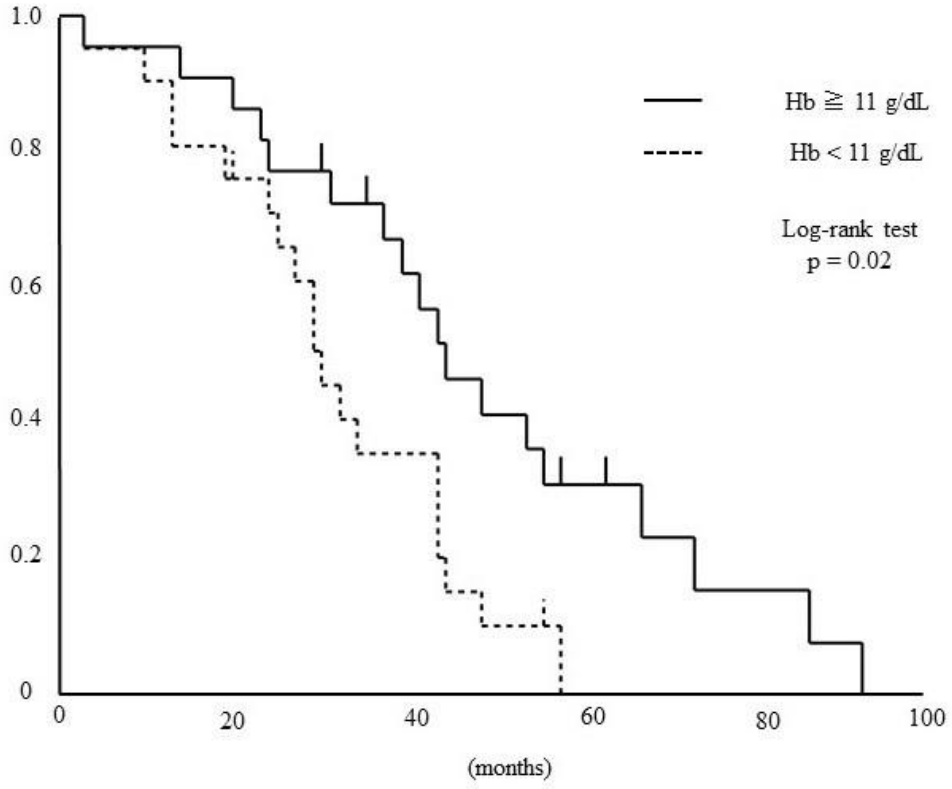
Abstract Submission No.: A-0231

Association between anemia and peritoneal dialysis withdrawal in stable peritoneal dialysis patients

Kenta Torigoe, Emiko Otsuka, Kiyokazu Tsuji, Ayuko Yamashita, Shinichi Abe, Kumiko Muta, Tomoya Nishino
Department of Internal Medicine-Nephrology, Nagasaki University Hospital, Japan

Objectives : Anemia is a risk factor for early withdrawal from peritoneal dialysis (PD); however, its influence on stable PD patients is not established. We investigated the relationship between anemia and PD withdrawal in stable PD patients.
Methods : Forty-three PD patients underwent multiple peritoneal equivalent tests (PET) between September 2011 and December 2022. Patients were divided into two groups: Hb ≥ 11 g/dL (22 patients) and Hb < 11 g/dL (21 patients) at the time of first PET, and subsequent PD withdrawal rates were analyzed. Furthermore, the correlation between Hb and annual rate of urinary volume decline was also investigated.
Results : The median PD duration was 14 months, and 37 patients withdrew from PD during the mean follow-up period of 37.5 months. PD withdrawal rate was higher in the Hb<11 g/dL group (Log-rank test p=0.02). In the COX proportional hazards model, Hb was also a significant factor associated with PD withdrawal even after adjustment for patient background (HR: 0.73, 95% CI: 0.54-0.99, p=0.04). In addition, Hb was negatively correlated with the subsequent annual rate of urinary volume decline (r=-0.34, p=0.02).
Conclusions : Anemia is a risk factor for PD withdrawal in stable PD patients through residual renal function decline.

スライド 1.jpeg



スライド 1.jpeg

	Univariate		Multivariate	
	HR	p-value	HR	p-value
Age (years)	1.00 (0.97-1.03)	0.78	1.00 (0.96-1.04)	0.99
Sex (Male)	1.20 (0.62-2.34)	0.59	1.15 (0.43-3.04)	0.78
Duration of PD (months)	1.00 (0.97-1.03)	0.99	1.00 (0.96-1.03)	0.81
Charlson Comorbidity Index	1.04 (0.77-1.34)	0.79	0.95 (0.67-1.30)	0.77
Hb (g/dL)	0.71 (0.56-0.92)	0.009	0.73 (0.54-0.99)	0.04
Urinary volume (dL/day)	0.90 (0.85-0.97)	0.006	0.93 (0.86-1.01)	0.09