

**Supplementary Table S2. Associations of serum levels of soluble alpha Klotho (s $\alpha$ Kl) between psychological stress and sleeping conditions in younger group and elder group**

	younger group		elder group	
	44 (42.8–46.0) years		53 (51.8–55.0) years	
	$\tau$	P-value	$\tau$	P-value
Stress awareness	–0.043	0.582	0.031	0.756
Stress management	–0.006	0.949	0.035	0.719
Relaxation from sleep	0.070	0.324	–0.142	0.109

We considered the involvement of menopause in the association between psychological stress and s $\alpha$ Kl levels among female subjects. We divided the female subjects into two groups, by 50 years of age: the average age of menopause in our country (*Kono et al. Maturitas, 1990*). We evaluated the associations of s $\alpha$ Kl levels with stress awareness, stress management, and relaxation from sleep in younger group (< 50 years, n = 60) and elder group ( $\geq$  50 years, n = 40); however, serum levels of s $\alpha$ Kl exhibited no significant association between stress awareness, stress management, or relaxation from sleep in both groups.