

**Table S4. The correlation between EDCs metabolite exposure and sleep duration
(grouped by vitamin D level).**

Chemicals	Model I		Model II	
	β (95%CI)	P	β (95%CI)	P
Vitamin D				
BP3	0.020 (-0.005, 0.031)	0.160	-0.009 (-0.025, 0.014)	0.558
TRS	0.035 (0.005, 0.046)*	0.014	0.017 (-0.008, 0.033)	0.236
MEP	-0.041(-0.065, -0.013)*	0.004	-0.052 (-0.077, -0.023)*	<0.001
Vitamin D				
BP3	0.040 (-0.041, 0.106)	0.382	0.024 (-0.059, 0.097)	0.633
TRS	0.134 (0.036, 0.185)*	0.004	0.121 (0.023, 0.177)*	0.011
MEP	-0.009 (-0.102, 0.083)	0.842	-0.014 (-0.110, 0.080)	0.760

Model 1 : Rough model.

Model 2 : Adjusted according to age, gender, race, education level, marital status, family PIR, physical activity, smoking, drinking, BMI and urinary creatinine.

* Means $P < 0.05$