

**S2 Table. Multivariable linear regression models of variables associated with serum levels of indoxyl sulfate and p-cresyl sulfate in 604 children with CKD at baseline**

	Log indoxyl sulfate			Log-p-cresyl sulfate		
	Estimate ± SE		P-Value	Estimate ± SE		P-Value
Age (years)	-.017	±.016	.274	<b>.035</b>	<b>±.574</b>	<b>.008</b>
Girls	-.146	±.119	.192	-.045	±.013	.629
BMI SDS	.013	±.040	.741	-.036	±.032	.271
<b>Diagnosis</b>						
Tubulointerstitial	.165	±.157	.294	-.018	±.129	.888
Glomerulopathy	-.096	±.213	.651	<b>-.469</b>	<b>±.176</b>	<b>.008</b>
Post-AKI	.261	±.266	.326	-.285	±.219	.195
Others	.237	±.261	.367	.419	±.216	.067
<b>Residency</b>						
Non-Mediterranean	-.188	±.115	.102	<b>.350</b>	<b>±.095</b>	<b>&lt;.001</b>
<b>Physical activity</b>						
1 – 2 hours	-.107	±.163	.510	-.180	±.134	.180
2 – 4 hours	.037	±.179	.835	.162	±.150	.256
> 4 hours	-.037	±.136	.786	<b>-.226</b>	<b>±.112</b>	<b>.044</b>
eGFR (ml/min/1.73m <sup>2</sup> )	<b>-.050</b>	<b>±.008</b>	<b>&lt;.001</b>	<b>-.035</b>	<b>±.007</b>	<b>&lt;.001</b>
Serum albumin (g/l)	.001	±.010	.902	<b>.035</b>	<b>±.008</b>	<b>&lt;.001</b>
Urea (mg/dl)	<b>.013</b>	<b>±.004</b>	<b>.004</b>	<b>.007</b>	<b>±.004</b>	<b>.038</b>
Uric acid (mg/dl)	<b>-.121</b>	<b>±.032</b>	<b>&lt;.001</b>	<b>-.082</b>	<b>±.026</b>	<b>.002</b>
Serum phosphorus	.207	±.150	.167	.014	±.123	.911
Log UPCr	.194	±.109	.074	.021	±.047	.652
Ca-based P binders	.001	±.100	.995	.042	±.090	.634
Iron Therapy	.194	±.109	.074	<b>.190</b>	<b>±.090</b>	<b>.034</b>
Antibiotics	-.036	±.135	.790	.034	±.111	.762

Diagnostic groups were compared to patients with the diagnosis of CAKUT. Residency was defined as living in Mediterranean or Non-Mediterranean countries. Physical activity was compared to being physically inactive (0 hours).

SE= standard error; CAKUT= congenital anomalies of the kidney and urinary tract; Post-AKI= chronic kidney disease after acute kidney injury; BMI= body mass index; eGFR= estimated glomerular filtration rate; Ca-based P binders= calcium-based phosphate binders; uPCr= Urinary protein creatinine ratio; SDS= standard deviation score.