

Supplementary Materials: Dietary Fibre Intake is Associated with Serum Levels of Uraemic Toxins in Children with Chronic Kidney Disease

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Table S1. Nutrient intake of patients across different CKD stages.

Nutrient intake	CKD 1–2 (n = 20)	CKD 3 (n = 19)	CKD 4–5 (n = 22)	<i>p</i>
Fibre intake (g/day/m ²)	15.8 ± 6.7	12.5 ± 6.9	9.9 ± 5.8	0.017°
% DRI fibre	91.7 ± 35.3	78.0 ± 32.3	60.0 ± 34.1	0.014°°
Protein intake (g/day/m ²)	64.8 ± 39.7	52.9 ± 19.2	46.4 ± 19.7	0.104
%DRI protein	274 ± 196	202 ± 90	187 ± 93	0.101
Protein/Fibre index	4.2 (3.2–4.7)	5.0 (2.7–6.2)	3.8 (2.8–6.1)*	0.552
Energy (kCal/day)	1505 ± 478	1463 ± 491	1329 ± 546	0.503
Energy (kCal/kg/day)	68.2 ± 35.4	50.5 ± 27.8	60.1 ± 27.9	0.204

%DRI: achieved percentage of the recommended 100% Dietary Reference Intake. Data are expressed as mean ± standard deviation (SD) or median (25th–75th percentile) as appropriate. *n = 19, the three patients with a fibre intake of 0 g/day were excluded for mathematical reasons. ° Significantly higher fibre intake in CKD 1–2 patients versus CKD 4–5 patients (6 g/day/m², 95%CI: 1–11 g, *p* = 0.012). °° Significantly higher %DRI for fibre intake in CKD 1–2 patients versus CKD 4–5 patients (32%, 95%CI: 7–57%, *p* = 0.010). Comparison between the CKD stages was done using a one-way ANOVA test with post-hoc Tukey comparison or a Kruskal–Wallis test with Bonferroni correction as appropriate.

Table S2. Serum concentrations of total and free gut-derived, protein-bound uraemic toxins in patients across different CKD stages.

Gut-derived, protein-bound uraemic toxins (mg/dL)	CKD 1–2 (n = 20)	CKD 3 (n = 19)	CKD 4–5 (n = 22)	
pCG	Total	0.001 (0.001–0.009)	0.001 (0.001–0.008)	0.017 (0.007–0.043)
	Free	0.001 (0.001–0.006)	0.001 (0.001–0.007)	0.015 (0.006–0.039)
IAA	Total	0.032 (0.019–0.050)	0.036 (0.028–0.051)	0.062 (0.036–0.078)
	Free	0.002 (0.001–0.003)	0.003 (0.002–0.006)	0.008 (0.004–0.110)
IxS	Total	0.082 (0.047–0.168)	0.223 (0.102–0.264)	0.573 (0.458–0.739)
	Free	0.003 (0.001–0.005)	0.004 (0.001–0.007)	0.019 (0.011–0.031)
pCS	Total	0.250 (0.073–0.835)	0.665 (0.352–0.860)	1.569 (0.973–2.159)
	Free	0.008 (0.003–0.017)	0.012 (0.006–0.021)	0.043 (0.018–0.074)

pCG: p-cresylglucuronide; IAA: indole acetic acid; IxS: indoxyl sulfate; pCS: p-cresyl sulfate. Data are expressed as median (25th–75th percentile).