

## Supplementary Material

# Trace Elements in Portuguese Children: Urinary Levels and Exposure Predictors

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**Table S1-** Median concentrations of trace elements (µg/g creatinine) according to diet group, region, gender, and age.

Element	Diet group					Region					Gender					Age				
	Healthy diet (n=67)		Regular diet (n=43)		p-value	Porto (n=79)		Aveiro (n= 31)		p-value	Female (n=55)		Male (n=55)		p-value	4-11 years		12-18 years		p-value
	Median	Max.	Median	Max.		Median	Max.	Median	Max.		Median	Max.	Median	Max.		Median	Max.	Median	Max.	
<b>Cu</b>	<b>27.2</b>	<b>94.4</b>	<b>14.7</b>	<b>74.2</b>	<b>&lt;0.001</b>	<b>26.2</b>	<b>94.4</b>	<b>12.</b>	<b>35.32</b>	<b>&lt;0.001</b>	22.1	94.4	21.7	62.2	0.388	<b>26.7</b>	<b>94.4</b>	<b>13.0</b>	<b>74.2</b>	<b>&lt;0.001</b>
<b>Co</b>	0.74	1.62	0.88	2.86	0.147	<b>0.66</b>	<b>2.15</b>	<b>0.90</b>	<b>2.86</b>	<b>0.002</b>	0.83	2.86	0.74	1.90	0.233	0.84	1.89	0.65	2.86	0.214
<b>I</b>	118.6	536.9	131.9	355.6	0.126	122.5	536.9	131.9	310.3	0.311	118.6	435.2	128.7	536.9	0.832	<b>152.4</b>	<b>536.9</b>	<b>62.2</b>	<b>355.6</b>	<b>&lt;0.001</b>
<b>Mo</b>	55.9	149.8	51.4	130.4	0.431	55.0	149.8	51.4	117.6	0.534	55.	149.8	51.7	130.4	0.950	<b>63.1</b>	<b>149.8</b>	<b>44.1</b>	<b>110.4</b>	<b>&lt;0.001</b>
<b>Mn</b>	<b>2.89</b>	<b>27.9</b>	<b>1.44</b>	<b>8.75</b>	<b>&lt;0.001</b>	<b>2.50</b>	<b>14.0</b>	<b>1.05</b>	<b>27.9</b>	<b>&lt;0.001</b>	2.32	11.5	1.92	27.9	0.213	<b>2.91</b>	<b>27.9</b>	<b>1.19</b>	<b>8.75</b>	<b>&lt;0.001</b>
<b>Ni</b>	4.83	15.4	4.65	24.8	0.238	4.65	17.0	4.78	24.8	0.401	5.14	24.8	4.47	13.8	0.174	<b>5.47</b>	<b>24.8</b>	<b>3.48</b>	<b>17.0</b>	<b>&lt;0.001</b>
<b>As</b>	31.8	214.6	48.7	453.6	0.175	40.3	453.6	29.7	166.1	0.246	36.5	453.6	39.3	236.6	0.988	39.9	214.6	32.3	453.6	0.219
<b>Sb</b>	<b>0.10</b>	<b>0.32</b>	<b>0.06</b>	0.31	<b>0.003</b>	<b>0.10</b>	<b>0.32</b>	<b>0.06</b>	<b>0.31</b>	<b>&lt;0.001</b>	0.09	0.32	0.08	0.31	0.435	<b>0.11</b>	<b>0.32</b>	<b>0.05</b>	<b>0.31</b>	<b>&lt;0.001</b>
<b>Cd</b>	0.29	0.72	0.29	0.64	0.963	0.29	0.59	0.25	0.72	0.727	0.29	0.58	0.29	0.72	0.790	<b>0.32</b>	<b>0.72</b>	<b>0.23</b>	<b>0.47</b>	<b>&lt;0.001</b>
<b>Pb</b>	<b>1.21</b>	<b>19.9</b>	<b>0.82</b>	<b>10.2</b>	<b>0.050</b>	<b>1.10</b>	<b>19.9</b>	<b>0.79</b>	<b>7.87</b>	<b>0.044</b>	0.99	19.88	0.88	6.61	0.368	<b>1.24</b>	<b>19.9</b>	<b>0.62</b>	<b>10.1</b>	<b>&lt;0.001</b>
<b>Sn</b>	<b>0.39</b>	<b>30.1</b>	<b>0.49</b>	11.8	<b>0.038</b>	0.45	30.06	0.46	11.8	0.659	0.49	11.80	0.40	30.06	0.233	<b>0.49</b>	<b>30.1</b>	<b>0.25</b>	<b>11.8</b>	<b>0.003</b>
<b>Tl</b>	0.42	2.68	0.36	2.49	0.357	<b>0.46</b>	<b>2.68</b>	<b>0.22</b>	<b>0.99</b>	<b>&lt;0.001</b>	0.41	2.68	0.37	1.57	0.404	<b>0.48</b>	<b>2.68</b>	<b>0.26</b>	<b>1.12</b>	<b>&lt;0.001</b>

Mann-Whitney-U test, 2 tailed; significant differences between groups ( $p \leq 0.05$ ) are marked in bold. Healthy diet – obese/overweight children on healthy diet; Regular diet – normal/underweight children following their regular diet; Max. - Maximum