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Dear Mr. Caicedo

With reference to your e-mail dated 24/05/2006, I have the pleasure to present below the additional information on lead and cadmium in Turkey. I have enclosed some "Environmental Quality Standards" and "Maximum Acceptable Concentrations in some Food Categories" for lead and cadmium. Further I have enclosed information on occupational lead exposure in storage battery workers in Turkey.

Sincerely yours.

Prof. Dr .Yalđın Duydu

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Environmental quality standards for lead in Turkey

Maximum acceptable lead concentrations	
Drinking Water	10 µg/L
Ground Water	10 µg/L
Irrigation Water	20 µg/L
Air	0.5 µg/m ³ (1 January 2016)
Soil	50 mg/kg (pH≤6), 300 mg/kg (pH>6)

Maximum acceptable lead concentrations in some food categories in Turkey

	Maximum acceptable lead concentrations (mg/kg)
Milk	0.02
Meat	0.1
Fish	0.4
Beverage	0.1
Cereals	0.2
Canned foods	1
Salt	2

Occupational Exposure Limits for lead in Turkey;

The limit value for blood lead is 15 µg/dl in Turkey.

Medical examination is recommended in the worker with blood lead levels over 40 µg/dl.

Occupational exposure limit for lead in workplaces: TLV-TWA (8 hour): 0.15 mg/m³

Environmental quality standards for cadmium in Turkey

Maximum acceptable cadmium concentrations	
Drinking Water	3 µg/L
Ground Water	3 µg/L
Irrigation Water	5 µg/L
Air	0.5 ng/m ³ (1 January 2018)
Soil	1 mg/kg (pH≤6), 3 mg/kg (pH>6)

Maximum acceptable cadmium concentrations in some food categories in Turkey

	Maximum acceptable cadmium concentrations (mg/kg)
Meat	0.05
Fish	0.1
Beverage	0.01
Soya bean	0.2
Cereals	0.1
Canned Fish	0.05
Salt	0.5

Occupational Exposure Limits for cadmium in Turkey;

The limit value for blood cadmium is 0.5 µg/dl in Turkey.

Results of a study on occupational lead exposure in Turkish storage battery manufacturing workers;

Table 1. Characteristics of the workers and the control group.

Parameters	Exposed group	Control group
n	31	20
Age (years; mean \pm SD [range])	31.16 \pm 4.39 (24 -39)	31.85 \pm 3.92 (24-41)
Blood Pb, μ g/dl	36.31 \pm 8.28 (22.21-52.51)*	11.1 \pm 2.13 (8.11-14.71)
ALAD activity, U	7.06 \pm 4.94 (1.68-19.78)*	30.35 \pm 7.54 (17.79-44.04)
U-ALA, mg/g creatinine	9.68 \pm 5.31 (2.52-23.86)*	3.09 \pm 1.04 (1.66-4.81)
Creatinine, g/L	1.44 \pm 0.64 (0.66-2.91)	1.63 \pm 0.58 (0.59-2.49)

* Significantly different from the control group (p<0.05)

Reference;

DUYDU Y., SÜZEN H.S., AYDIN A., CANDER O., UYSAL H., İŞİMER A., VURAL N., Correlation between lead exposure indicators and sister chromatid exchange (SCE) frequencies in lymphocytes from inorganic lead exposed workers, Archives of Environmental Contamination and Toxicology, 41(2), 241-246, 2001.