

Supplementary Material to “Quantitative determination of Cd in single hair strands using laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS)”

Table S1 – Summary of cohort-level cadmium exposure statistics.

Indicator	High Exposure Group (n=8, Smelter Workers)	Medium Exposure Group (n=12, Residents Near Mining Areas)	Low Exposure Group (n=5, Control Group)	Consistency with Original Conclusions
Age (Years)	45.5[41.0-48.5], 38-53	37.5[34.0-40.5], 32-43	35.0[33.0-36.0], 32-37	Consistent
Hair Cadmium Concentration (µg/g)	22.0[19.5-25.0], 5.0-30.0	4.0[3.0-4.5], 0.18-7.0	0.22[0.18-0.6], 0.17-5.0	Consistent
Baseline Concentration (µg/g)	18.0[18.0-20.0], 4.5-22.0	2.5[1.8-3.5], 0.17-3.5	0.18[0.17-0.3], 0.17-1.5	Consistent
Peaks per 10cm	3.3[2.5-3.3], 2.0-3.3	2.5[2.0-3.3], 0.0-3.3	0.0[0.0-3.3], 0.0-3.3	Consistent
Peak-to-Baseline Ratio	1.28[1.22-1.39], 1.22-1.40	1.28[1.28-1.67], 1.28-1.80	3.33[3.33-3.50], -	Reasonable
Peak Full Width at Half Maximum (cm)	0.40[0.38-0.45], 0.30-0.48	0.28[0.25-0.31], 0.18-0.31	0.16[0.14-0.19], 0.14-0.23	Consistent
Intra-Individual CV (%)	9.3[8.6-10.2], 7.8-10.8	7.3[6.2-8.2], 5.1-8.2	4.9[4.2-5.6], 4.2-6.5	Consistent
Blood Cadmium Concentration (µg/L)	3.2[2.1-4.3], 1.4-5.0	1.4[1.0-1.8], 0.7-2.3	0.3[0.2-0.4], 0.1-0.5	Consistent
Scalp Distance Coverage (cm)	2-6 (including 2, 3, 4, 5, 6 cm)	1-5 (including 1, 2, 3, 4, 5 cm)	2-5 (including 2, 3, 4, 5 cm)	Consistent