

Table 7 Descriptive statistics of aluminium present in maternal blood (n = 416), cord blood (n = 309) and meconium (n = 309) for different Karachi areas

Location	Maternal blood (n = 416) Mean ± SD	Cord blood (ppm) (n = 309) Mean ± SD	Meconium (ppm) (n = 309) Mean ± SD	P
Baldia Town	11.4 ± 19.3	18.8 ± 25	95.6 ± 84	0.0776
Gadap Town	23.2 ± 27.4	36.9 ± 8	144.2 ± 98.4	0.0872
Gulbarg Town	11.8 ± 12.5	20.8 ± 27.6	141.2 ± 119.2	<0.0001 ^Δ
Gulshan-e-Iqbal Town	120.7 ± 206.2	7.3 ± 7.5	190.6 ± 147.1	0.3646
Hyderabad	38.2 ± 32.5	3.8 ± 1.0	218.1 ± 42.3	0.0115 ^Δ
Jamshed Town	0.7 ± 1.2	0.8 ± 0.8	81.8 ± 115.7	0.3019
Khairpur Town	0 ± 0	0 ± 0	0 ± 0	-
Korangi Town	8.1 ± 7	6.1 ± 5.4	84.6 ± 65	0.0013 ^Δ
Landhi Town	13.5 ± 17	12 ± 15.4	130.1 ± 97.2	0.0036 ^Δ
Liaquatabad Town	5.3 ± 8.7	6.5 ± 8.8	109.9 ± 94.7	<0.0001 ^Δ
Lyari Town	7.7 ± 10.9	13.4 ± 13.2	45.5 ± 64.6	0.0723
Malir town	13.8 ± 20.5	32.1 ± 63	119 ± 95.2	0.0012 ^Δ
New Karachi Town	15.8 ± 21.8	20.4 ± 32.8	193.1 ± 113.7	0.0022 ^Δ
North Nazimabad	9.3 ± 17.9	31.9 ± 81.5	146.3 ± 121.2	<0.0001 ^Δ
Not mentioned	22.5 ± 20.7	8.1 ± 10.4	86.6 ± 42.8	0.0076 ^Δ
Orangi Town	16.4 ± 22.6	25.8 ± 32.7	102.9 ± 101.4	<0.0001 ^Δ
Saddar Town	6.2 ± 0	4.6 ± 0	210.7 ± 0	<0.0001 ^Δ
Shah Faisal Town	12.9 ± 19.4	9.0 ± 13.6	141.6 ± 125.2	<0.0001 ^Δ
Site Town	1.6 ± 2.3	11.0 ± 10.4	218.3 ± 97.5	0.0513
Steel Town	0.2 ± 0	0 ± 0	11.3 ± 0	<0.0001 ^Δ

^ΔP-value shown for Gulbarg town, Hyderabad, Khairpur town, Korangi, Landhi, Liaquatabad, Malir, New Karachi, North Nazimabad, Others, Orangi, Saddar, Shah Faisal town and Steel Town are significantly different by location. P-value indicates that the observed result would be highly unlikely under the null hypothesis.