

Table 5 Descriptive statistics of copper 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	1.2 ± 0.5	1.7 ± 2.8	5.1 ± 5.6	0.1633
Gadap Town	3.8 ± 5.5	1 ± 1.5	2.1 ± 3.7	0.7026
Gulbarg Town	2.3 ± 2.7	1.4 ± 2.4	5.6 ± 8.8	0.0106 [^]
Gulshan-e-Iqbal Town	3.8 ± 2.1	0.9 ± 1.1	0 ± 0	0.0328 [^]
Hyderabad	6 ± 5.8	3.5 ± 4.2	28.7 ± 33	0.4602
Jamshed Town	0.7 ± 0.6	0 ± 0.1	1.6 ± 2.8	0.5411
Khairpur Town	0 ± 0	0 ± 0	0 ± 0	----
Korangi Town	6.2 ± 6.0	5.2 ± 3.8	26.3 ± 39.2	0.1825
Landhi Town	1.7 ± 1.7	5.9 ± 8.7	4.9 ± 5.4	0.4074
Liaquatabad Town	2.7 ± 2.3	1.5 ± 2.4	8.4 ± 15.3	0.0067 [^]
Lyari Town	6.6 ± 4.6	2.8 ± 3.7	3.9 ± 7.0	0.2566
Malir town	2.7 ± 2.9	4.3 ± 5.8	10.4 ± 23.3	0.3758
New Karachi Town	4.5 ± 7.7	1.8 ± 2.6	5.8 ± 6.0	0.5491
North Nazimabad	2.3 ± 2.9	1.5 ± 2.4	5.3 ± 12.4	0.0488 [^]
Not Mentioned	5.6 ± 2.9	2.6 ± 2.9	19.7 ± 23.2	0.2199
Orangi Town	2.7 ± 3.0	1.7 ± 3.1	16.4 ± 41	0.0522
Saddar Town	1.6 ± 0	0.5 ± 0	5 ± 0	<0.0001 [^]
Site Town	7 ± 0.3	8.7 ± 5.4	0 ± 0	0.1298
Steel Town	0.8 ± 0	0.1 ± 0	13.9 ± 0	<0.0001 [^]

Levels were higher than the normal are indicated by: maternal blood ppm, Cu=1.003 ± 0.159 and cord blood ppm, Cu = 0.0951 (20,21) while in meconium >100µg/dry wt was toxic (13).

[^]P-value shows that in Gulbarg town, Gulshan-e-Iqbal Town, Khairpur town, Liaquatabad town, North Nazimabad, Saddar and Steel Town are significantly different by location. P-value indicates that the observed result would be highly unlikely under the null hypothesis.