

Supporting Information for
A Metallomic Approach to Assess Associations of Serum Metal Levels With Gallstones and Gallbladder Cancer

Mei-Hsuan Lee, Yu-Tang Gao, Yu-Han Huang, Emma E. McGee, Tram Lam, Bingsheng Wang, Ming-Chang Shen, Asif Rashid, Ruth M. Pfeiffer, Ann W. Hsing, and Jill Koshiol

Supporting TABLE S1. Association of 18 Metals With Gallbladder Cancer and Gallstones

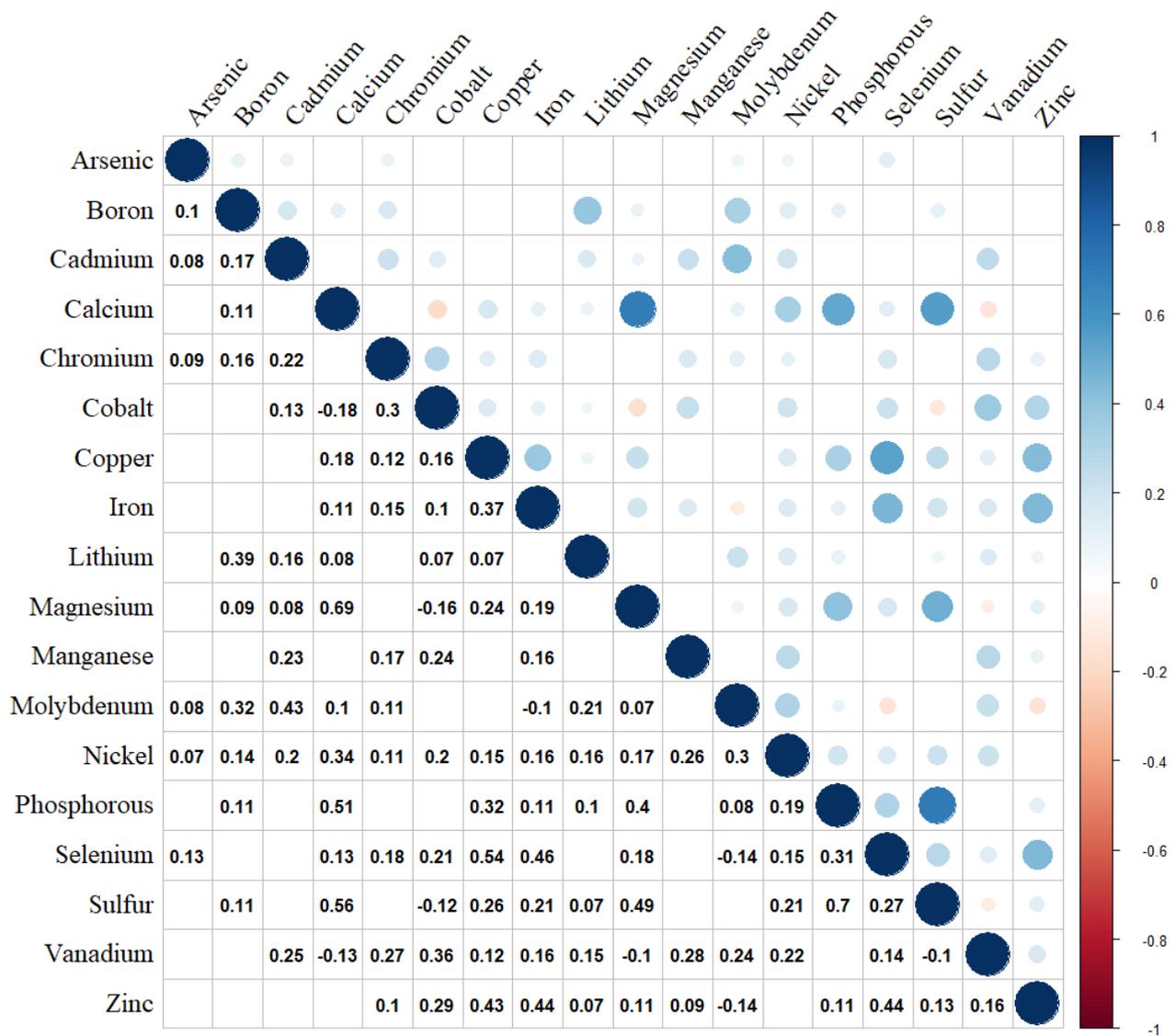
Metals	<i>P</i> value for GBC	Bonferroni corrected <i>P</i> value for GBC	<i>P</i> value for gallstones	Bonferroni corrected <i>P</i> value for gallstones
Arsenic	<0.0001	<0.0001	<0.0001	<0.0001
Boron	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium	<0.0001	<0.0001	0.1052	1.0000
Calcium	0.0899	1.0000	0.0003	0.0055
Chromium	0.0002	0.0039	0.2133	1.0000
Cobalt	0.3754	1.0000	0.4433	1.0000
Copper	<0.0001	<0.0001	0.1294	1.0000
Iron	<0.0001	<0.0001	0.0028	0.0504
Lithium	0.0022	0.0391	<0.0001	<0.0001
Magnesium	0.0001	0.0021	0.9341	1.0000
Manganese	0.0030	0.0536	0.1535	1.0000
Molybdenum	<0.0001	0.0001	0.0002	0.0028
Nickel	0.3980	1.0000	0.0124	0.2225
Phosphorous	0.0249	0.4490	<0.0001	0.0004
Selenium	<0.0001	<0.0001	0.3790	1.0000
Sulfur	<0.0001	<0.0001	0.0180	0.3248
Vanadium	<0.0001	<0.0001	0.4040	1.0000
Zinc	0.8736	1.0000	0.1944	1.0000

P values statistically significant after Bonferroni correction are indicated in bold.

Abbreviation: GBC, gallbladder cancer.

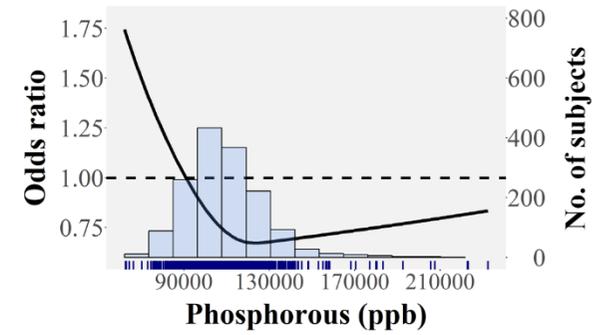
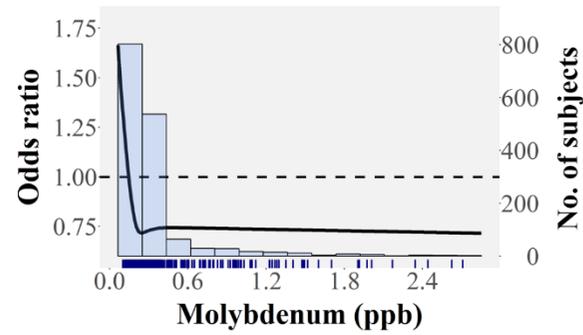
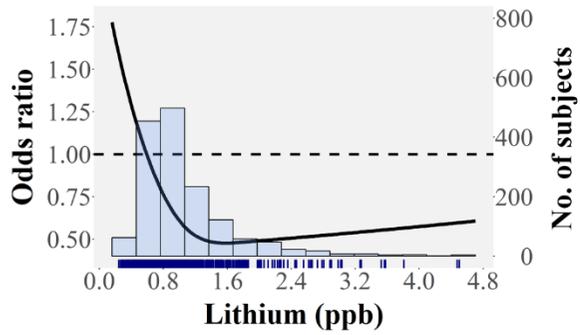
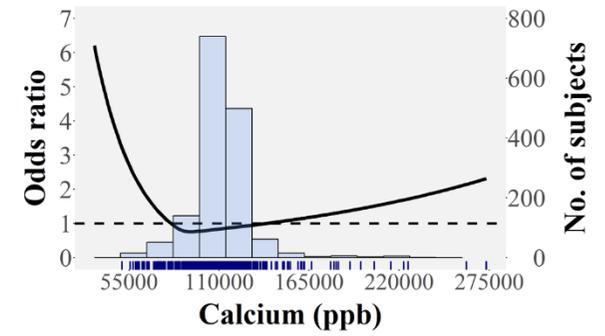
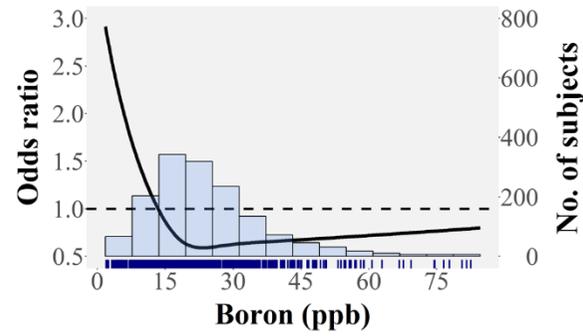
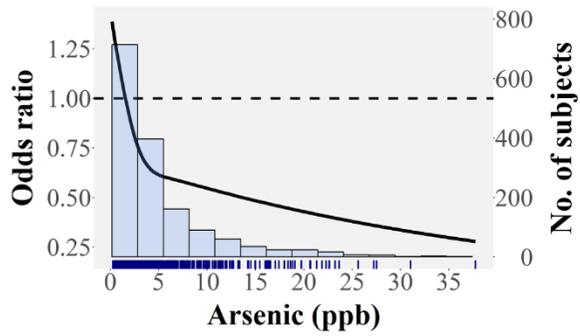
Supporting FIG. S1. Correlations of metals in population-based controls (N = 851).

Supporting FIG. S2. Odds ratios of gallstones by metal levels. The bar histograms represent the frequency distribution of each metal in the study sample, including gallstone patients and population-based controls. The tick marks at the bottom of the histogram in each figure represent the metal levels of gallstone patients.



All of the correlations were significant ($P < 0.05$).

Supporting FIG. S1



Supporting FIG. S2

