Biomonitoring California
Scientific Guidance Panel Meeting
*Community Exposures to Metals*

November 8, 2018, Richmond, CA
Karen Cohn, MS, CIH
Children’s Environmental Health Promotion Program
San Francisco Homes Built 1979 or Before compared to No. of Children with Detectable Blood Lead Levels (≥ 2 μg/dL) reported to DPH, 2013-2016

83% of homes were built in 1979 or before. Lead based paint was banned from residential use in 1978.

Sources: U.S. Census Bureau, 2010-2014 American Community Survey (5 Year Estimates)
San Francisco Department of Public Health, Children's Environmental Health Promotion Program, 2017
Old article but good article: http://www.nytimes.com/.../worries-about-lead-for-new-yorks-g...

Worries About Lead for New York’s Garden-Fresh Eggs
A study suggests eggs from neighborhood gardens show elevated levels of lead, but whether the amounts are alarming is not clear.

NYTIMES.COM | BY JULIE SCELFO
Metal contaminants in mineral and herbal supplements

- **DHZC-2 Chinese Herbal Supplement Recalled for Lead – August 2016**

- **New York Company Recalls 11 Dietary Supplements Over High Mercury, Lead Levels – Sept. 2015**

Ayurvedic medicines that contain heavy metal ingredients in very low quantities:

- Manashila — Also known as realgar
- Rasa Sindhura — A compound of purified mercury and purified sulphur
- Hingula — Cinnabar
- Gauripashana — Arsenic, Arsenic oxide
- Makaradhwaja — A compound of purified mercury, sulphur, and gold
- Haratala — Arsenic trisulphide
- Rasa Karpura — Hydrargyri subchloridum
- Girisindura — Red oxide of mercury
- Tuttha — Copper sulphate
- Parada — Mercury
- Sindhura — Red oxide of lead
During pregnancy and lactation, lead from prior exposures can be mobilized from bones because of the increased bone turnover. Pregnant and lactating women with a current or past blood lead level of 5 micrograms/dL or higher should receive specific nutritional recommendations regarding calcium and iron supplementation.

Community exposure concerns
Air Pollutant Exposure Zone and Stationary Sources with Permits
Climate change and wildfires