[illegible]

Table 1

Maximum Metal Detection Limits, µg/kg[1] in Newborns in Butte, Montana (MT) and Columbia, South Carolina (SC)

| | Butte, MT N = 33 | Columbia, SC N = 33 | Wilcoxon rank sum test p-Value | t-test p-Value |
|---|---|---|---|---|
| | Metals, µg/kg[2] Median (minimum, maximum) Mean (standard deviation) | | | |
| As | Median 32<br>Min 16, Max 49<br>Mean 35<br>Std Dev. 10 | <LoD<br>**< 1.4 ug/kg**<br><LoD | <0.0001 | <0.0001 |
| Cu | Median 26,111<br>Min 11,008, Max 87,270<br>Mean 28,134<br>Std Dev. 10,411 | Median 14.68<br>Min 2.40, Max 17.42<br>Mean 14.75<br>Std Dev. 7.68 | <0.0001 | <0.0001 |
| Mn | Median 1,804<br>Min 388, Max 18,110<br>Mean 6807<br>Std Dev. 3,728 | Median 7.25<br>Min 0.20, Max 13.63<br>Mean 6.63<br>Std Dev. 4.44 | <0.0001 | <0.0001 |
| Mo | Median 58<br>Min 24, Max 105<br>Mean 64<br>Std Dev. 23 | <LoD<br><LoD | <0.0018 | <0.0018 |
| Pb | Median 8<br>Mean 5<br>Std Dev. 5 | <LoD<br><LoD | <0.0001 | <0.0001 |
| Zn | Median 61,143<br>Min 12,120, Max 812,005<br>Mean 108,254<br>Std Dev. 82,772 | Median 41.34<br>Min 12.17, Max 117.25<br>Mean 33.78<br>Std Dev. 26.18 | <0.0001 | <0.0001 |

Limits of Detection (LoD) for MT samples:
As = 1.8, Cu = 3.8, Mn = 1.8, Mo = 0.1, Pb = 0.1, Zn = 1.0
Limits of Detection (LoD) for SC samples:
As = 1.8, Cu = 0.1, Mn = 0.1, Mo = 0.1, Pb = 0.8, Zn = 1.0

[1] Tests were averages were above the limit of detection.

Limits of Detection (LoD): for MT samples: As= 1.8, Cu= 3.8, Mn= 1.8, Mo= 0.1, Pb= 0.1, Zn= 1.0.
Limits of Detection (LoD): for SC samples: As= 1.8, Cu= 0.1, Mn= 0.1, Mo= 0.1, Pb= 0.8, Zn= 1.0.

[2] Tests were averages were above the limit of detection.

Scour some pubs for context for these numbers at left. Are Butte's #s high or Columbia's #s low?

| Study 1 | Study 2 | Study 3 | Study 4 |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Notes | | | |