

Advisory Committee on Childhood Lead Poisoning Prevention
Lead and Pregnancy Work Group
Draft - February 1, 2006

Outline of Topics

1. Introduction
 - a. Overview of history of health effects of lead poisoning
 - b. Justification
 - i. Need to guide clinical decisions
 - ii. Need to inform public health policy
 - iii. State legislation in this area
2. Background
 - a. Physiology and kinetics of lead and pregnancy and lactation (including calcium, caloric requirements)
 - b. Recent concerns about the effects of low level lead exposure
 - c. LPPPs experience with immigrant pregnant women and cases of lead exposure
 - d. Measurement issues (hemodilution, substrate, timing)
3. Measures of Lead – biological and environmental
 - a. Bone, blood (venous vs. capillary), plasma, hair, placenta, meconium
 - b. Dust, air, soil
 - c. Reliability of single measurement
4. Epidemiology of lead in women of child bearing age in the US
 - a. Distribution of BLLs
 - b. Trends
 - c. High risk populations
5. Sources of lead exposure in pregnant women
 - a. Exogenous
 - i. Leaded gas
 - ii. Occupational exposure
 - iii. Lead paint
 - iv. Personal products
 - v. Cultural uses
 - vi. Ceramics
 - b. Endogenous
 - i. Past maternal exposure – bone stores
6. Health effects
 - a. Maternal
 - i. Biochemical? Reference only
 - ii. Sub-clinical
 - iii. Clinical
 - b. Fetal and infant
 - i. Biochemical? Reference only
 - ii. Sub-clinical
 - iii. Clinical
7. Screening for exposure
 - a. Who: Universal vs. high risk groups
 - b. When to screen

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Outline of Topics (continued)

- c. How to screen – BLL vs. questionnaire
- d. What is the level of concern
- 8. Management
 - a. Prevention/Intervention
 - i. Eliminate sources
 - ii. Reduce absorption (Nutrition)
 - iii. Decrease retention/Increase excretion (Chelation)
 - b. Occupational Health
 - c. Follow-up testing of mother and infant
- 9. Breastfeeding/Lactation
 - a. Need to address lead in infant formula
- 10. Research and Policy Gaps
 - a. Recommendations for future research
 - b. Policy recommendations