

ACCLPP Lead and Pregnancy Work Group Status Report

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Charge to the Work Group

Recommendations will be made on:

- prevention of lead exposure for women of child-bearing ages and pregnant and lactating women
- risk assessment and screening of pregnant women
- medical, public health and environmental management
- breast feeding
- follow-up of infants and children of mothers with elevated blood lead levels.
- further research and health education needs in this field

Approach

- Review existing evidence
- Evaluate data and issue recommendations for: prevention, risk assessment, screening, medical & environmental management, breastfeeding, and follow-up of EBLLs
- Describe data gaps
- Prepare recommendations for research and health education needs
- Report

Work Completed and Estimated Timeline

Task	Estimated Completion
■ Workgroup Initiated	April 2004
■ Literature Reviews	March 2005
■ Draft Report on Summary of Literature to ACCLPP	October 2005
■ Outline of Report	December 2005
■ First Draft Report	June 2006
■ Circulate Draft Report to ACCLPP	August 2006
■ Incorporate ACCLPP Comments	August-October 2006
■ Final Draft to ACCLPP	October 2006
■ Revise and submit for CDC clearance	December 2006

In-Person Meetings

- July 14, 2004 (New York)
- November 19, 2004 (New York)
- April 15, 2005 (Boston)
- September 16, 2005 (Boston)
- December 14, 2005 (Philadelphia)
- May 12, 2006 (Atlanta)
- July 2006 (TBD)
- Future meetings to be scheduled

Report Outline Overview

Chapter 1:	Introduction
Chapter 2:	Background
Chapter 3:	Measures of Lead
Chapter 4:	Epidemiology of lead in child bearing age women
Chapter 5:	Sources of lead exposure in pregnant women
Chapter 6:	Health Effects
Chapter 7:	Screening
Chapter 8:	Management
Chapter 9:	Breastfeeding/Lactation
Chapter 10:	Research and Policy Gaps



Report Outline

Chapter 1: Introduction

- Overview of health effects of lead poisoning
- Justification
 - Need to guide clinical decisions
 - Need to inform public health policy
 - State legislation in this area



Report Outline

Chapter 2: Background

- Physiology and kinetics of lead and pregnancy and lactation (including calcium, caloric requirements)
- Recent data about the effects of low level lead exposure
- LPPPs experience with immigrant pregnant women and cases of lead exposure
- Measurement issues (hemodilution, substrate, timing)



Report Outline

Chapter 3: Measures of Lead – biological and environmental

- Bone, blood (venous vs. capillary), plasma, hair, placenta, meconium
- Dust, air, soil
- Reliability of single measurement



Report Outline

Chapter 4: Epidemiology of lead in women of child bearing age in the US

- Distribution of BLLs
- Trends
- High risk populations



Report Outline

Chapter 5: Sources of lead exposure in pregnant women

- Exogenous
 - Leaded gas
 - Occupational exposure
 - Lead paint
 - Personal products
 - Cultural uses
 - Ceramics
- Endogenous
 - Past maternal exposure – bone stores



Report Outline

Chapter 6: Health effects

- Maternal
 - Biochemical (Reference only)
 - Sub-clinical
 - Clinical
- Fetal and infant
 - Biochemical (Reference only)
 - Sub-clinical
 - Clinical



Report Outline

Chapter 7: Screening for exposure

- Who: Universal vs. high risk groups
- When in pregnancy to screen
- How to screen – BLL vs. questionnaire
- What is the level of concern



Report Outline

Chapter 8: Management

- Prevention/Intervention
 - Eliminate sources
 - Reduce absorption (Nutrition)
 - Decrease retention/Increase excretion (Chelation)
- Occupational Health
- Follow-up testing of mother and infant



Report Outline

Chapter 9: Breastfeeding/Lactation

- Benefits vs. Risks
- Need to address potential issue of lead in infant formula
- Recommendations



Report Outline

Chapter 10: Research and Policy Gaps

- Recommendations for future research
- Policy recommendations



Next Steps

Meetings in May and July to discuss each chapter:

- Identify gaps in document
- Review recommendations
- Identify future research and policy