

EXPERIMENTAL INHALATION OF LEAD

Introduction

Prior experiments on fate of ingested lead

Imbalance due to the absorption of lead from the atmosphere

Extension of observations to inhalation of lead with
reference to effects of

1. Concentration in air
2. Nature of compound
3. Size of particle

on

- a. Collection of particles in upper respiratory tract
- b. Retention of particles in lung
- c. Absorption, excretion and ultimate fate

Methodology

Preliminary observations on subject

Medical

(Lead metabolism

Slide 1

(Check on capability and reliability

Slides 2,3,4,,

5,6

Introduction into chamber

Slides 7,8,9

Apparatus and experimental conditions

Continuation of medical observations

Continuation of study of lead metabolism

Specific methods of procedure

Determination, periodically, of respiratory volume

Slide 10

Determination, periodically of pulmonary lead
retention

Results

Lead metabolism

Slide 11

Lead in food and feces

Slide 12

Lead in blood

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Slide 13 Lead concentration in urine by 2 methods of analysis
Slide 14 Lead output per day in urine
Slide 15 Balance - apparent loss from body
Accumulation in body