

The abnormalities of the blood chemistry in this case indicated that both liver and kidneys had been injured. The injury is attributed to the cadmium rather than to the lead absorbed. Lead may, however, have played a role in the production of the bone marrow changes.

Liver	{ abnormal cholesterol ratio high serum globulin
Kidneys	{ high serum nonprotein nitrogen high serum uric acid albumin and casts in urine
Bone marrow	{ anemia basophilic stippling

TABLE 10.—Laboratory Data After Three Months

Substance or Test	Amount or Reaction
Blood sugar	101
Serum nonprotein nitrogen.....	21
Serum phosphorus	3.4
	} mg./100 cc.
Serum alkaline phosphatase.....	3.2 Bodansky units/100 cc.
Serum total protein.....	7.2
Serum albumin	4.1
Serum globulin	3.1
	} Gm./100 cc.
Serum calcium	5.1
Serum carbon dioxide.....	23.1
Serum halogen	106
Serum sodium	140
	} mEq./l.
Blood lead	None
Urine lead	None
Blood cadmium	None
Urine cadmium	None
Albumin and microscopic changes.....	None
Hematological Findings	
R. B. C.	4,800,000
Hgb.	16 Gm.
W. B. C.	6,100
Differential count	
Neutrophils	68
Lymphocytes	28
Monocytes	3
Basophils	1
No stippled cells	
	} %

CASE 4.—J. A., a 23 year old white man, had been employed at pulverizing cadmium sulfide for a year. He neglected to wear the mask provided, because it was uncomfortable. A cough developed, and a yellow tinge to his skin, which he thought was due to the cadmium yellow. On physical examination he had a slight icteric tint, a harsh cough and rapid respirations. He was expectorating blood-tinged, frothy sputum, and his chest was full of rales. The laboratory findings may be seen in table 9. After three days his chest signs cleared up. The jaundice lasted a week.

He returned for reexamination at the end of three months, feeling fine. He had undergone no further cadmium exposure in the interim. The laboratory findings at this time appear in table 10.

This is another case in which absorption and excretion of both lead and cadmium were demonstrated. Jaundice was an interesting clinical finding. The chest findings were more