

September 6, 1944

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Dr. W. B. Hutchinson,
Willard Storage Battery Company,
246 East 131st Street,
Cleveland, Ohio.

Dear Dr. Hutchinson:

I am sending you herewith the results obtained on samples sent to us in the case of [REDACTED]. I am at a loss to explain these results. They are most unusual, although they are not beyond the realm of possibility. However, I consider it very likely that one of two things has happened to produce this strange discrepancy between the blood and urine values; either the blood samples were contaminated in being collected and approximately to the same degree, or else the urine sample was extremely dilute in the case of a man who had taken a considerable quantity of water shortly before the sample was collected. The only other possibility, - and this is remote because I have only seen one such case, - is that this man may have a type of nephritis, in which lead along with other electrolytes are excreted in very low concentration by reason of the kidney damage. It seems probable that the failure in such a case arises from the inability of the kidney to concentrate the secreted urine.

In any case this is a very interesting situation, and it is one that should be investigated further. Accordingly I suggest that you obtain additional samples at the earliest possible time, using every precaution to avoid the slightest possibility of contaminating the blood sample. If the blood results should be confirmed, the evidence of serious lead exposure can be accepted as valid. However, we shall not be able to interpret the present results without further samples. Incidentally, in considering the charges in this case, whether they are directed to you or to the Industrial Commission, we shall take into account our own interest in this kind of a problem, and naturally the bill accordingly. I shall appreciate very much your prompt cooperation in trying to solve this problem.

Cordially yours,

Robert A. Kehoe, M. D.

[REDACTED]

Samples of urine and blood received from Dr. W. B. Hutchinson,
Willard Storage Battery Company, 246 E. 131st Street, Cleveland,
Ohio, for lead analyses.

Urine

Analysis Number = 44A-4450

Volume = 80 ml.

Mg. Pb/Liter = 0.02

Blood

Analysis Number = 44A-4451

	<u>Spectrographic</u>	<u>Dithizone</u>
Grams	14.2	15.9
Mg. Pb/100 g.	0.20	0.17

Samples Received: 8-24-44

Samples Reported: 8-30-44