

In the laboratory it is necessary to correlate the data on this card with the volume, analytical procedure (polarographic, dithizone, and so on), and results—information to be retained in the files for a limited period for reference in the event that a question as to the results should arise. A mimeographed columnar form was used and the data were entered in pencil, red being used where there was any divergence from the normal technique.

COMPANY
MEDICAL DEPARTMENT

Name _____ Clock No. _____
(Print - Last name first)

Plant _____ Date _____ 194 _____

Urine Wasted (Urine in toilet) _____ M
(exact time)

Sample Collected (Urine in bottle) _____ M
(exact time)

Do NOT urinate between time urine is wasted and time sample is collected.

Empty bladder completely into sample bottle (two bottles if needed) when sample is collected.

Figure 3. Urine sample record.

A permanent record of the findings on each individual is kept in the industrial hygiene department, with a duplicate in card form at the plant for the convenience of the local doctor (see Figures 4 and 5). Here all pertinent data on the individual and his environment are assembled, with records of the analyses that show the effect of his environment upon him. The graphic record on the back of the card shows the trend at a glance, whether favorable or unfavorable. With these cards available, statistical analyses can be undertaken and medical control facilitated. For instance, all the individuals in the plant can be segregated into groups for study of the trends in any one department or building or men with different lengths of exposure may be separated for comparison.

As the work of improving the environment progresses, study of these cards affords a means of determining whether—and where—the sampling should be continued and where reduced to quarterly or semiannual intervals. As the results are reviewed each month, any unusual conditions are obvious and the industrial hygienist can take steps at once to find the cause and provide relief.

Plant: X

Clock No. 45 Name: DOE, John Race: White Age: 40 Study No: 2X-100

Department: Foundry - furnace tender Foreman: JONES, John

Description of Working Place: Charges Date of Birth: 4/17/04 Date Hired: 11/12/42

cupola, works on charging platform most of time; exposure to fume from taps below, from pouring in surrounding area, and dressing near cupola. Controlled 4/43 by exhaust hood.

Previous History: Laborer - packing plant. No lead exposure.

Illness Record: 2/25/43 abdominal cramps.

Analysis of Spot Urine Samples					
Date	Micro-gram/l.	Micro-gram/hr.	Date	Micro-gram/l.	Micro-gram/hr.
11/20/42	140	6.2	10/22/43	50	3.9
12/17/42	270	8.6	12/3/43	110	7.1
1/20/43	360	12.9	1/11/44	90	2.1
2/23/43	720	30.0	2/15/44	150	No time
3/23/43	330	12.6	3/1/44	100	9.9
4/23/43	230	10.1			
5/21/43	140	7.6			
6/30/43	180	9.2			
7/28/43	30	1.0			
9/23/43	180	12.0			

Figure 4. Urinary lead record (front of card).

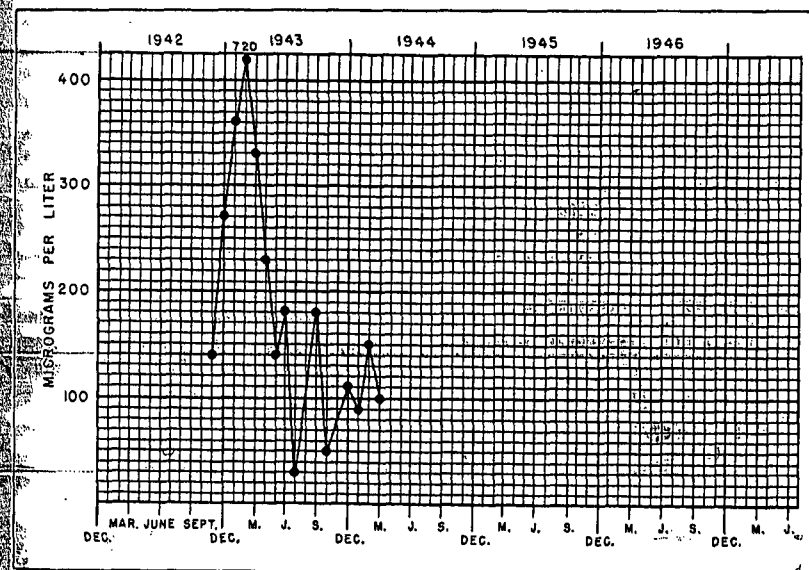


Figure 5. Graph of urinary lead record (reverse side of card).

WITHDRAWN
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Johnson City, Tennessee