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[REDACTED]
November 5, 1943

Mr. S. French Reeves, Vice President

K. A. Koerber, M. D., Plant Physician

[REDACTED]
2013 Oxford Street
Philadelphia, Penna.

Born July 4, 1899
Employed May 29, 1920

We submit herewith an abstract of the medical record of [REDACTED] Samples of blood and urine have been submitted for analysis. These were taken according to the specific instruction of the Kettering Laboratory.

This patient's annual physical examinations, aside from his lead history, have been essentially negative since 1932. On March 30, 1936, he was first examined by the undersigned, who records him to have been in the White-Lead Department for sixteen years and to have had a lead line, oral sepsis and moderate post cervical adenopathy. At that time his blood studies showed a hemoglobin of 60, red blood cells 4,020,000, stippling 4+, which means that he had from three to ten stippled cells per oil immersion field. Annual examination of November 14, 1936 showed a hemoglobin of 70, R. B. C. 3,940,000, stippling 3+, a very faint trace of albumin and a few hyaline casts. January 11, 1938, physical examination was essentially negative except for hemoglobin of 69, R. B. C. 3,520,000, stippling 2+, albumin a very faint trace. February 20, 1939, hemoglobin 86, R. B. C. 4,410,000 and occasional stippled cell.

February 9, 1940 hemoglobin was 83, R. B. C. 3,960,000, occasional stippled cell, cloud of albumin, ten to fifteen white blood cells. March 20, 1941, patient had a blood pressure of 160/110, R. B. C. 3,820,000, hemoglobin 90, cloud of albumin, hyaline casts, eight to ten white blood cells. Wassermans in 1936, 1937, 1938, 1939, 1940 and 1941 negative. His dispensary record from 1936 forward included the usual run of headaches, colds, intestinal disturbances and occasional minor non-related injuries from which he recovered and a fracture of radius and ulna on July 2, 1943, from which he has fully recovered.

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COPY

Mr. S. French Reeves, V. P.

November 5,

43

2

This man's sexual life bears watching. In 1936 he reported married for sixteen years, no children living or dead. October 10, 1939 he reported mere approach of female causes orgasm. October 8, 1940, dispensary record carries this notation: "Apparently a nymphomaniac. Now complains again of same condition as on 10/10/39. Painful testicles, no injury, no excesses, no swelling." From that date to the present date, this patient has complained continually of pains and swelling in the left testicle and impotence. At no time has the undersigned found any subjective findings to substantiate his subjective complaint. The entire genitalia and inguinal region and perineum were found to be negative on physical examination. On January 1, 1943, the patient reported that he was no longer impotent, following the use of strychnine 1/60 after meals.

This patient has been examined at monthly intervals. We report herewith the dates when positive findings occurred, the rest of the record being essentially negative. July 13, 1936 to November 10, 1938, this patient presented a hemoglobin which would fluctuate between 60 and 92 and a stippling which would fluctuate between negative and 3/4, with the exception of September 8, 1936 when it was 4/4. Subjectively, the patient offered no complaint. From November 10, 1938 to March 3, 1941, the patient's lead history was essentially negative except for an occasional stippling or 1/4 stippling. His lowest hemoglobin had been 76 and his highest 100, generally fluctuating between 80 and 93. From 1941 to September of 1942 this patient's blood presented an occasional to a 3/4 stippling and a hemoglobin which varied from 77 to 95 and an occasional anisocytosis, poikilocytosis and polychromasia. From October 1942 to the present date, this patient has presented only once an occasional stippled cell otherwise always having been negative. His lowest hemoglobin 72 and his highest 100, generally fluctuating between 80 and 86.

This patient from time to time was considered to have had excessive absorption of lead and various orders were issued from time to time, which are given as follows: September 1936 the patient received calcium therapy, intravenously and by mouth. In 1938 he was reported as "always dirty, sloppy habits." In November 1938 he was recorded as having been in Sunshine Gang a number of times and then placed on a rotating schedule a number of times and returned to the White-Lead Department on the block on September 26, 1938. The block is a wet process. May 1940 he was placed on Vitamin C and noticed no change in his general feeling of well being. In March 1941 we recorded him as having been in white-lead filling, no dry lead, since September 1938, prior to this in the Sunshine Gang and prior to that a miller in mill house for a number of years, also in jail for nine months.

April 1941 he was again placed on Vitamin C for two weeks. In September 1941 an attempt was made to delead with ammonium chloride but he was unable to tolerate this and he was given calcium lactate. In February 1942 he received calcium gluconate intravenously. From February until June he received several courses of calcium therapy, at the end of which time he was again started on a course. On June 26, it was recorded "Has been assigned to water mill for one hour daily." August 21, 1942, it was recorded, "Remove permanently from lead hazard."

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KE 0013788

COPY

Mr. S. French Reeves, V. P.

November 5,

43

3

On September 22, 1942 was recorded, "Frequent achromic cells, no stippling, general condition improved." In October, "Continue on block. Slowly improved." This order was continued to the present date.

It is believed advisable to explain our method of calculation of stippled cells. 1/ is one stippled cell per two oil immersion fields, 2/ is one stippled cell per field, 3/ is two per one field and 4/ is three or more per field.

It is believed that our Sunshine and rotating gangs need explanation. When an individual has excessive absorption or intoxication due to lead, he is removed from his hazard and placed on what we call our Sunshine Gang. This is a yard gang that have odd jobs thruout the premises in the open air and free from any exposure to lead. When the individual has been on the Sunshine gang a sufficient length of time to have had satisfactory hemoglobin and R. B. C. and absence of stippled cells for a period of three months, he is placed upon what we call our rotating gang. This is the same group as the Sunshine Gang except that they return to their former occupation by successive degrees. If all goes well, it takes approximately four months full time to their regular job. During the first month they return to their occupation for one week and then to the Sunshine Gang for three weeks. If the blood studies show continued improvement, the next month they return to their regular occupation for two weeks and into the Sunshine two weeks. The third month they are in their regular job for three weeks and in the sunshine for one week. If all has gone well, they are returned the fourth month for regular occupation for a full month.

This patient has come thru this procedure a number of times and has been out of the lead hazard since August 1942. His work on the block is "wet." The work on the water mill does produce a wet spray which we have considered a hazardous occupation. He was last assigned to this duty in June 1942 for but one hour daily to oversee this work and have another man trained to replace him. After sixty days of this one hour daily, he was removed permanently from this occupation.

In conclusion, we have abstracted the high points of our dispensary record and will be glad to submit further information should it be requested.

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