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CHIEF SURGEON

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Mr. W. P. Yant,
U.S. Bur. of Mines Experiment Station,
Pittsburgh, Pa.

My dear Sir:

I have examined the draft of the proposed Report on Ethyl Gasoline Investigations and wish to make certain comments seriatim as per pages of my copy thereof:

P. 8. The wording in the beginning of the last Par. is not clear.

P. 9. References to Fairhall¹ and Avery² should be foot-noted.

P. 13. (below center) "percent of total lead in gasoline used in deposits 80.6". This statement is not clear.

P. 14. It does not appear to me that the heading given for "Table 4" fits the contents of the Table. Also (right center of page), I believe a date should be put down for the "End" of the "average weights" Table. Also, in last Table on this page, the word "lbs." probably ought to be specified.

P. 15. The wording of the first sentence is not clear.

P. 16. 3rd Par., I would suggest that the species of animals showing polychromatophilia be mentioned.

P. 17. (Par. just below center of page, last sentence), I would suggest the following wording "where it is swallowed or otherwise eliminated," as there are two or three conceivable methods other than expectoration by which the animals might free the passage ways of foreign matter.

P. 17-22. (Rabbits - Guinea pigs - Dogs - Monkeys - Summary). There are so many typographical errors upon the pages of my copy that I have found it inadvisable to comment upon them at this time.

In regard to symptoms of lead poisoning, I would suggest that the following have negative values and mention of them should probably be included: miscarriages, anorexia, tremors, incoordination and anemia.

It is also understood, I believe, that the street dust and drippings analyses are to be included. Also a passage upon delayed symptoms of lead poisoning (a draft for which I have already forwarded to Dr. Sayers).

On the whole I think this tentative draft is comprehensive in that it appears to touch upon and to answer most of the questions which will be apt to arise in the minds of the public and of fair-minded critics. The next general conference, I trust, will result in getting its rough places ironed out and the material pretty well into shape for a preliminary report.

Yours very truly,

E. R. Hayhurst, M.D.
Consultant,
Ethyl Gasoline Corporation.

✓
Copy to - Dr. R. R. Sayers,
Dr. Graham Edgar.

THE OHIO STATE UNIVERSITY

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COLUMBUS

Sept. 29, 1924.

Dr. R. R. Sayers,
U.S. Public Health Service,
Washington, D.C.

Dear Dr. Sayers:

Dr. Graham Edgar, Director of Research,
Ethyl Gasoline Corporation, to whom I submitted the
following paragraph considers it "most satisfactory:"

Delayed lead poisoning, or that condition in which exposed persons or animals may have absorbed and retained lead without immediate symptoms, but with symptoms exhibited later, is fully recognized by a number of authorities. In fact, the symptoms of lead poisoning may come on years afterwards, probably depending upon some change in the acid-base equilibrium of the tissue fluids in the body. Suffice it to say that in all of these instances lead has been definitely stored, usually in large amounts, in the body tissues. According to Aub and others, this storage has been found to occur to the extent of 80 per cent in the skeleton. Obviously, without evidence of storage or deposition of lead in the tissues following exposure to ethyl gasoline exhaust fumes, the possibility of delayed symptoms from lead poisoning from this source may be dismissed as untenable.

As you will recall it was left to me to devise a statement along the line indicated for the report on Ethyl Gasoline hazards. The statement of course should come before The Conference Committee for such action as it sees fit.

Yours very sincerely,

E. R. Hayhurst

E. R. Hayhurst, M. D.
Consultant,
Ethyl Gasoline Corporation.