

April 5, 1934

Dr. Bradford Scudder
Medical Director
The Grasselli Chemical Co.,
Cleveland, Ohio

Dear Dr. Scudder:

I am sending you herewith two copies of the report on the analyses of selected employees at your Toledo Plant.

The interpretation of these results is a matter of some question, and in order to be of the greatest use to you in arriving at a conclusion, I would suggest the advisability of your giving me as much detailed information as to the character of the plant and as to the specific occupational histories of the men as can be obtained. In the occupational histories it is particularly important to specify the character of the workmen's exposure, whether continuous or intermittent, and the duration of the last continuous exposure.

You will remember that we have used the lead content of the faeces as an indication of the magnitude of exposure to dusts. The examination of the results of this series of faecal samples shows that seven out of the ten samples are high as compared to normal individuals. On the other hand, only one sample contains more than one milligram of lead, a fact which indicates, tentatively at least, that the exposure to lead dusts to this group of men has been slight to moderate in magnitude. Now if I understood the character of the exposure, I would be able to give you a more accurate interpretation of these findings.

As to the urine findings, we can properly regard them as an indication of the amount of lead absorption which has taken place. Five of these results are within the limits for normal individuals. Three others are at the upper limit for normals, and only two are above the normal level. If this is a representative group of men, it would seem to be justified to draw the conclusion that lead absorption has not occurred to any considerable extent in this group of men, and that their occupation is not a very hazardous one. However, the accuracy of this interpretation will depend upon the representative character of the men, and more particularly

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exposed.

I shall be very glad to go over carefully any additional information with which you wish to supply me, but I think I have outlined to you the basis on which I would arrive at a judgment as to the meaning of these figures.

I enclose herewith an invoice covering the charges on these analyses in accordance with our agreement of some days ago.

With kindest personal regards,

Sincerely yours,

Robert A. Kehoe, M.D.

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The Grasselli Chemical Company

Toledo Plant Employees

Name	Sample No.	Urine		Sample No.	Faeces		
		Mgs. Pb. / Pound	Mgs. Pb. / Liter		Mgs. Pb. / Pound	Mgs. Pb. / 100 gms dry faeces	Mgs. Pb. / gm. Ash
[REDACTED]	9177	0.24	0.075	9178	0.98	3.783	0.213
[REDACTED]	9179	0.02	0.006	9180	0.53	1.913	0.160
[REDACTED]	9181	0.11	0.035	9182	0.80	1.895	0.157
[REDACTED]	9183	0.09	0.026	9184	0.81	2.531	0.197
[REDACTED]	9185	0.35	0.113	9186	2.29	23.367	2.290
[REDACTED]	9187	0.29	0.085	9188	0.23	0.942	0.580
[REDACTED]	9189	0.15	0.068	9190	0.42	2.560	0.100
[REDACTED]	9191	0.04	0.012	9192	0.43	1.283	0.102
[REDACTED]	9193	N11	N11	9194	0.34	1.434	0.113
[REDACTED]	9195	0.26	0.104	9196	0.67	4.267	0.319