

File - Children's
Lead in Teeth

January 26, 1959

Dr. B. Landing
Childrens Hospital
Cincinnati 29, Ohio

Dear Doctor Landing:

Our analytical staff was somewhat dismayed by the receipt of 109 samples of teeth. This is entirely understandable, in view of our general policy of handling materials from hospitals and practicing physicians as a first priority. I have allayed their concern in the face of their very heavy burden of current work by pointing out that there is no urgency for the completion of these analyses, which therefore can be introduced into the routine flow of analytical procedures as circumstances will permit.

I think it wise to inform you of this situation for there will be an appreciable delay in the performance. We are under considerable pressure, for a number of reasons, and while there is no wish on our part to avoid this work, or to postpone it unnecessarily, we shall have to do it a little at a time.

As I indicated previously, I believe, we are prepared to charge the cost of this work (the analysis of this batch of samples will cost us about \$1400.00) against our general study of the lead problem in the community (including industry), but if, in the course of your investigation of this problem in children, you should find appropriate access to funds for its support, it would not be amiss to include this Laboratory as a collaborator and to include the analytical costs in the over-all expense. I mention this not to suggest any lack of interest on our part in sharing in the work, but only for the purpose of keeping our operating costs as fairly allocated as may be possible.

Sincerely yours,

Robert A. Kehoe, M. D.

RAK:ss

cc: Mr. J. Cholak
Mr. D. Bruegman

KE 0005848

N 7417

November 30, 1959

Dr. B. Landing
Children's Hospital
Cincinnati 20, Ohio

Dear Doctor Landing:

I send herewith the analytical results on the teeth submitted to us in January of this year and referred to in my letter of January 26th.

Lacking information about the children listed in the report I have made no effort to put any interpretation upon these findings. I have inspected them and have found a very wide range of variability. This fact, in itself, is very interesting, and when viewed on the basis of our previous data, is almost certainly of significance. No doubt the background of information on the individual teeth of the children will provide some basis for the interpretation of the data and for the practical usefulness of this analytical approach to the highly important problem of the "body burden" of lead, under a variety of conditions. There must be some valid relationship between the lead content of the teeth (the live, metabolizing tooth) and that of the skeleton. I hope that the information which comes out of the survey will throw some further light on this matter and I shall be interested in it from this viewpoint particularly.

If I can be of assistance in interpreting any of the findings, please let me know.

Cordially,

Robert A. Kehoe, M. D.

RAK:ss

Enclosure

KE 0005349

11-5417-01

Material: Teeth

Submitted: 1-23-59 by Dr. B. Landing, The Children's Hospital,
Cincinnati, Ohio

Required: Lead Analyses

<u>Name</u>	<u>Analysis Number</u>	<u>Date Removed</u>	<u>Tooth</u>	<u>Lead Found P.P.M.</u>
[REDACTED]	59A-931	5-1-58	7	*
[REDACTED]	59A-932	3-10-58	31	*
[REDACTED]	59A-933	3-17-58	9	22.0
[REDACTED]	59A-934	3-17-58	10	31.0
[REDACTED]	59A-935	3-3-58	19	*
[REDACTED]	59A-936	3-3-58	18	6.4
[REDACTED]	59A-937	3-3-58	14	5.8
[REDACTED]	59A-938	3-3-58	15	*
[REDACTED]	59A-939	9-19-58	11	13.0
[REDACTED]	59A-940	9-19-58	7	17.0
[REDACTED]	59A-941	9-26-58	29	10.2
[REDACTED]	59A-942	9-26-58	28	11.6
[REDACTED]	59A-943	9-26-58	20	1.4
[REDACTED]	59A-944	9-26-58	4	10.2
[REDACTED]	59A-945	9-26-58	5	3.0
[REDACTED]	59A-946	9-26-58	21D	3.2
[REDACTED]	59A-947	9-26-58	13B	3.8
[REDACTED]	59A-948	9-26-58	12	2.6
[REDACTED]	59A-949	9-26-58	29	3.4
[REDACTED]	59A-950	9-26-58	28	5.3
[REDACTED]	59A-951	10-10-58	11	13.0
[REDACTED]	59A-952	10-10-58	6	13.0
[REDACTED]	59A-953	10-20-58	4	14.3

<u>Name</u>	<u>Analysis Number</u>	<u>Date Removed</u>	<u>Tooth</u>	<u>Lead Found P.P.M.</u>
[REDACTED]	59A-954	10-20-58	19	3.2
[REDACTED]	59A-955	10-24-58	29	57.4
[REDACTED]	59A-956	6-9-58	6	18.5
[REDACTED]	59A-957	6-9-58	4	20.5
[REDACTED]	59A-958	6-9-58	5	15.3
[REDACTED]	59A-959	6-9-58	29	8.0
[REDACTED]	59A-960	6-9-58	3	20.0
[REDACTED]	59A-961	6-9-58	19	23.0
[REDACTED]	59A-962	6-9-58	7	9.0
[REDACTED]	59A-963	6-9-58	8	6.3
[REDACTED]	59A-964	6-9-58	9	9.5
[REDACTED]	59A-965	6-9-58	10	7.6
[REDACTED]	59A-966	6-9-58	20	8.7
[REDACTED]	59A-967	6-9-58	21	5.5
[REDACTED]	59A-968	6-16-58	19	3.0
[REDACTED]	59A-969	6-16-58	4	23.3
[REDACTED]	59A-970	6-16-58	5	11.2
[REDACTED]	59A-971	6-23-58	23	6.6
[REDACTED]	59A-972	6-23-58	24	5.0
[REDACTED]	59A-973	6-23-58	6	7.0
[REDACTED]	59A-974	6-23-58	4	2.4
[REDACTED]	59A-975	7-14-58	20	*
[REDACTED]	59A-976	7-14-58	21	*
[REDACTED]	59A-977	7-10-58	7	*
[REDACTED]	59A-978	7-10-58	8	4.5
[REDACTED]	59A-979	7-10-58	9	4.4
[REDACTED]	59A-980	7-10-58	10	7.5

Name	<u>Analysis Number</u>	<u>Date Removed</u>	<u>Tooth</u>	<u>Lead Found P.P.M.</u>
	59A-981	7-25-58	3	10.4
	59A-982	8-8-58	3	7.5
	59A-983	9-26-58	20	3.2
	59A-984	8-8-58	13	9.6
	59A-985	8-8-58	21	10.5
	59A-986	8-8-58	20	10.3
	59A-987	8-8-58	28	9.7
	59A-988	8-8-58	3	26.4
	59A-989	8-8-58	14	24.3
	59A-990	8-8-58	19	22.0
	59A-991	8-8-58	30	18.0
	59A-992	8-8-58	19	18.0
	59A-993	8-8-58	29	8.0
	59A-994	8-8-58	13	8.0
	59A-995	8-8-58	12	24.0
	59A-996	8-8-58	8	38.0
	59A-997	8-8-58	29	*
	59A-998	8-8-58	28	17.4
	59A-999	8-8-58	4	13.1
	59A-1000	8-8-58	20	7.0
	59A-1001	8-8-58	21	18.8
	59A-1002	8-8-58	8	38.5
	59A-1003	8-8-58	13	30.4
	59A-1004	8-8-58	29	28.3
	59A-1005	8-8-58	28	31.8
	59A-1006	8-8-58	20	17.1
	59A-1007	8-8-58	21	26.8

Name	<u>Analysis Number</u>	<u>Date Removed</u>	<u>Tooth</u>	<u>Lead Found P.P.M.</u>
	59A-1008	8-29-58	30	13.1
	59A-1009	8-29-58	19	15.0
	59A-1010	8-29-58	4	10.0
	59A-1011	8-29-58	5	12.7
	59A-1012	8-29-58	6	26.6
	59A-1013	8-29-58	11	11.5
	59A-1014	8-29-58	12	13.2
	59A-1015	8-29-58	13	10.4
	59A-1016	8-29-58	21	11.2
	59A-1017	8-29-58	22	13.3
	59A-1018	8-29-58	27	8.8
	59A-1019	8-29-58	28	11.2
	59A-1020	8-29-58	29	11.7
	59A-1021	9-5-58	7	14.5
	59A-1022	9-5-58	10	50.0
	59A-1023	9-5-58	20	28.0
	59A-1024	9-5-58	21	26.2
	59A-1025	9-5-58	28	7.9
	59A-1026	9-5-58	29	20.5
	59A-1027	9-5-58	3	0.6
	59A-1028	9-5-58	14	25.9
	59A-1029	9-5-58	30	10.0
	59A-1030	9-19-58	31	19.0
	59A-1031	9-19-58	6	13.3
	59A-1032	10-24-58	20	54.8
	59A-1033	10-24-58	29	2.1

<u>Name</u>	<u>Analysis Number</u>	<u>Date Removed</u>	<u>Tooth</u>	<u>Lead Found P.P.M.</u>
[REDACTED]	59A-1034	10-24-58	4	3.2
[REDACTED]	59A-1035	11---58	5	14.6
[REDACTED]	59A-1036	11---58	8	26.3
[REDACTED]	59A-1037	11---58	9	55.3
[REDACTED]	59A-1038	11---58	5	25.1
[REDACTED]	59A-1039	11---58	4	18.6
[REDACTED]	59A-1045	11---58	5	6.2

*No sample received.

Rec'd 1/23/59

These are 109 teeth removed from children with "normal" lead exposure. The cavity in each tooth was ground out by the dental resident. Each bottle has a bottle number and a tooth number DCP on it which corresponds with the number on white sheet. (That is the bottle number corresponds with the sheet number.)

B. Landing/Altschuler Children's Hospital

W. Chalkley

These should, I believe, be analyzed, as a cooperative effort with the Children's Hospital group - and also for our own information. They need not be done in a hurry, but can be taken, a few at a time, as our other analytical work permits. I shall so inform Dr. Landing, pointing out at the same time that the cost to us of doing this will amount to almost \$1400⁰⁰

RAX