

July 16, 1965

Dr. S. Colum Gilfillan
1215 Ocean Avenue
Santa Monica, California 90401

Dear Doctor Gilfillan:

Your letter of July 13th addressed to Dr. Kehoe arrived during his vacation. I shall bring it to his attention when he returns on August 10th and trust that he will be able to answer it before he leaves on an extended trip to South America the following week.

Very truly yours,

Secretary

rms

S. Colum Gilfillan, Ph.D.

1215 Ocean Ave. Santa Monica, Calif. 90401

July 13, 1965

Professor Robert A. Kehoe, M. D.,
Department of Preventive Medicine,
University of Cincinnati
Cincinnati.

Dear Dr. Kehoe:

I have just received from a German scientist interested in lead poisoning today and historically, some ideas that may interest you. He is Regierungs- und Gewerberat Ing. Detlev Stöfen, Gewerbeaufsichtsamt in Montabaur, who translated those Russian articles.

He suggests that lead deposits in the bones are mostly oxides, but in ground water they are more salts of lead. Would it be possible thus to distinguish the two sources of lead?

He also cites the finding of a Professor emeritus Matthias, formerly of Ann Arbor (?) that there appears in the United States an astonishing amount of "Apathie", which might be due to lead. He refers to an official report on youth, of the Bundesfamilienministerium (US or German ?) that youth of today are quieter and more adjusted than thirty years ago, and according to new Russian researches their spermatozoa are less active if the blood contains heavy metals or chlorinated hydrocarbons in concentrations below the pathological limit.

Quite yours,

S. Colum Gilfillan

File with Gelfin's correspondence

Material: Larger bone specimens, usually identifiable as rich or poor, from Italy and France

Submitted: Received during the summer of 1964 by Dr. Robert A. Kehoe for Ph.D., 1215 Ocean Avenue, Santa Monica, California 90401

Required: Lead Analyses

Results

<u>Analysis Number</u>	<u>Identification</u>	<u>Grams of Dry Sample Used</u>	<u>Mg. Le in Sam</u>
64A-5016	#4.10.10, 3.2 gram. scapula, varnished?	3.0	0.125
64A-3968	#4.135, Scapula	4.3	0.064
64A-5486	#4.1385, Pelvis, F., age 20-2	2.05	12.60
64A-5487	#4.1389, Breastbone	5.80	0.470
64A-4032	#4.1702, Breastbone, 30-40 year old M.	3.0	0.035
64A-5256	#11.53, Scapula	7.70	0.123
64A-5017	#357 A, Scapula, dirty	5.4	0.200
64A-4033	#424, What bone? Scapula? dirty	2.4	0.035
64A-5018	#460, Scapula	3.55	0.108
64A-5019	#471-1, Scapula, probably M of 25 yrs.	3.1	0.145
64A-5257	#601, Manubrium sterni, broken in 2 pieces, M	6.45	0.286
64A-5488	#610, 2 pieces, jaw and what bone? F. 35 yrs.	5.95	0.324
64A-5135	#1956.24.10.1, Scapula, F.	9.10	2.35
64A-5020	#1956.29.7.1, Scapula, from grain pit, at 5 feet depth	4.75	0.008
64A-5920	#2000, Sternum, in pieces	3.81	0.577

Bone specimens from S. Colum Gilfillan, Ph.D.

<u>Analysis Number</u>	<u>Identification</u>	<u>Grams of Dry Sample Used</u>	<u>Mg. Le in Sam</u>
64A-5136	#2001, Skull or scapula	4.30	0.20
64A-5137	#2002, Vertebra	4.10	0.51
64A-5138	#2003, What bone?	5.00	0.41
64A-5139	#2004, L palate of a child whose age is probably 9 years, with 1 erupting molar	6.71	0.63
64A-5140	#2005, Part of long bone, near end	9.22	0.83
64A-5260	#2006, Metacarpus of index finger? From other bones estimated to be a woman of 45	7.40	1.57
64A-5258	#2007, Mixture from 1 individual, chiefly long bones	6.22	0.12
64A-5259	#SC W1113, Rib and metacarpus (?)	6.52	0.09
64A-5484	#OB-1, Misc. bones from an incineration at Beaugou, inc. epistropheus vertebra	5.25	0.04
64A-5485	#OB-3, ditto from Leyssene, i.e., each of these two is from the bones of one cremated individual	6.35	0.14

Note: Samples #2001-2005 are from the same cemetery

From The Kettering Laboratory in the Department of Preventive Medicine and Industrial Health, College of Medicine, University of Cincinnati, Cincinnati, Ohio

KETTERING LABORATORY
COLLEGE OF MEDICINE, UNIVERSITY OF CINCINNATI
EDEN AVENUE, CINCINNATI, OHIO 45219

Material: Bone specimens from "The Agora of Athens". Those marked with an asterisk* came from wells.

Submitted: Received during summer of 1964 by Dr. Robert A. Kehoe for S. Colum Gilfillan, Ph.D., 1215 Ocean Avenue, Santa Monica, California 90401

Required: Lead Analyses

Results

<u>Analysis Number</u>	<u>Sample Number</u>	<u>Grams of Dry Sample Used</u>	<u>Mg. Lead in Sample</u>	<u>Mg. Lead/ 100 Grams Dry Bone</u>
64A-4667	10AA*	0.856	0.074	8.64
64A-4668	13AA*	0.520	0.564	108.40
64A-5005	14AA*	0.433	0.130	30.00
64A-4069	19AA	0.376	0.0106	2.82
64A-4669	20AA*	0.542	0.308	56.80
64A-5006	24AA*	0.317	0.156	49.20
64A-5007	61AA	0.693	0.043	6.20
64A-5132	69AA	0.225	0.051	22.60
64A-5008	70AA	0.508	0.018	3.50
64A-5133	72AA	0.447	0.0185	4.13
64A-5134	76AA*	0.427	0.167	39.10
64A-4068	180AA	0.31	0.0364	11.70

Note: Sample #11AA* was too small for analysis.

Reported: 11-5-64

N 5903.03

KE 0001488

Material: Bone Specimens

Submitted: Received during the summer of 1964 by Dr. Robert A. Kehoe for :
Ph.D., 1215 Ocean Avenue, Santa Monica, California 90401

Required: Lead Analyses

Results

Analysis
Number

Identification

Grams of Dry
Sample Used

Mg
in

64A-5786

No. T-1, from el Djem, Tunisia, ancient Thysdrus,
2-3rd century A.D., about 6 rib fragments and 6 teeth
of a small individual, perhaps not full grown, but
of a small race.

2.16

0

64A-5787

No. V-2, from Vukodol, Mostar, Yugoslavia, 1-3rd cen.
A.D. Cremated bones from an urn, a piece of skull,
and of a metatarsal or metacarpus, dirty.

4.10

0

64A-5788

No. V-1, from Vukodol, 1-3rd cen. A.D., cremated, from
an urn. Two fragments of long bone - fibula? About
10 grams, dirty.

4.59

0

From The Kettering Laboratory in the Department of
Preventive Medicine and Industrial Health, College of
Medicine, University of Cincinnati, Cincinnati, Ohio

Reported: 11-10-

1113

KETTERING LABORATORY
COLLEGE OF MEDICINE, UNIVERSITY OF CINCINNATI
EDEN AVENUE, CINCINNATI, OHIO 45219

November 11, 1964

To: S. Colum Gilfillan, Ph.D.
1215 Ocean Avenue
Santa Monica, California

For: Reimbursement of the Kettering Laboratory for the analyses
of bone specimens from "The Agora of Athens", larger bone
specimens from England, Italy and France, and other bone
specimens submitted during the summer of 1964.

40 analyses at \$12.50 each \$500.00

KE 0001490