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Copy to Dr. Dougherty ✓
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SEP 14 1977
MANUFACTURING CHEMISTS ASSOCIATION *TC*

1825 CONNECTICUT AVENUE, N.W. WASHINGTON, D.C. 20009 (202) 483-6126

September 12, 1977

ICD MED. SVCS.
SEP 19 1977

TO: Vinyl Chloride Technical Panel

SUBJECT: Updated Summary of Reported Cases of Angiosarcoma
of the Liver Among Vinyl Chloride Polymerization
Workers

G ntlemen:

Because of Dr. T. R. Torkelson's excellent liaison work on the maintenance of an international registry, Ms. Rose Kaminski has made available to him the most recent update on reported cases of angiosarcoma. Dr. Torkelson thoughtfully has requested that copies of these data be sent immediately to all Panel members. Your copy is attached.

As is shown in the attached copy of Dr. Torkelson's letter addressed to Mr. John Lawrence and the undersigned, there exists a need for additional data to complete the record on new cases. Please cooperate with Dr. Torkelson in his efforts to have the registry be both complete and current.

Sincerely,

J. T. Seawell
Project Manager
Vinyl Chloride Research

JTS:ec
Enclosure

ASI 000012420

SEP 09 1977



THE DOW CHEMICAL COMPANY

BENNETT BUILDING
2030 DOW CENTER
MIDLAND, MICHIGAN 48640

September 7, 1977

John Lawrence
Society of Plastics Industry, Inc.
355 Lexington Avenue
New York, N. Y. 10017

J. T. Seawell
Manufacturing Chemist Association
1825 Connecticut Avenue
Washington, D. C. 20009

Gentlemen:

Rose Kaminski, Statistician from NIOSH has kindly sent me an August update of their angiosarcoma registry. Ms. Kaminski asks some questions about new cases that I cannot answer.

Will you please distribute this tabulation, calling attention to the need for additional data to complete the new cases? I have had excellent cooperation exchanging information with this NIOSH group and I encourage our membership to help them keep this registry.

Sincerely,

T. R. Torkelson, ScD.
Corporate Medical Dept.

Enclosure

mh

cc: John Stafford, PhD.
Health & Environmental Prot.
Plastics Division
Imperial Chemicals Ind., Ltd.
P.O. Box No. 6 Bessemer Road
Welwyn Garden City Hertfordshire
England AL7 1HD

Rose Kaminski
Illness Effects Section
Surveillance Branch
Division of Surveillance, Hazard,
Evaluation, and Field Studies
NIOSH
R. A. Taft Laboratories
4676 Columbia Parkway
Cincinnati, OH 45226



ASI 000012421



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
CENTER FOR DISEASE CONTROL

September 1, 1977

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
ROBERT A. TAFT LABORATORIES
4676 COLUMBIA PARKWAY, CINCINNATI OHIO 45226

T. R. Torkelson, Sc.D.
Corporate Medical
The Dow Chemical Company
Bennett Building
2030 Dow Center
Midland, Michigan 48640

Dear Dr. Torkelson:

Thank you for the information concerning angiosarcomas associated with vinyl chloride in your letter of August 22, 1977 to Dr. Spirtas. We would like to obtain more details on the cases new to this office and would, therefore, appreciate any additional information you have on these, or better yet, the name and address of the person we could contact for more information. Also, to your knowledge, have these additional cases been microscopically confirmed?

In regard to your question concerning the U.S. cases, you are correct about the name of case 18, and case 23 was employed at the Great American Chemical Company in Fitchburg, Massachusetts. In regard to German case 8, I have enclosed a copy of the documentation we have received concerning the German cases.

Several weeks ago you mentioned correspondence among Drs. Philip Landrigan, Hans Popper, Louis Thomas and Marcus Key concerning the validity of U.S. cases 14 and 15. I was unable to find any such correspondence in our files. I telephoned Dr. Thomas and Dr. Falk in regard to this matter and it was agreed that case 14 should be removed from our lists. Dr. Thomas stated that case 15 couldn't be discounted as an angiosarcoma since it was microscopically confirmed but that a determination couldn't be made as to whether or not this angiosarcoma was VC induced. As a result, Table II will not be presented in the Current Intelligence Report we intend to submit to JOM.

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Page 2 - Dr. T. R. Torkelson

Since I spoke with you last, two more U.S. cases have been reported to this office. I have enclosed a revised copy of Table I, which includes these cases, plus the additional cases you provided.

Again, thank you for the information you have provided.

Sincerely yours,

A handwritten signature in cursive script that reads "Rose Kaminski".

Rose Kaminski, Statistician
Illness Effects Section
Surveillance Branch
Division of Surveillance, Hazard
Evaluations, and Field Studies

Enclosure

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TABLE 1
REPORTED CASES OF ANGIOSARCOMA OF THE LIVER AMONG
VINYL CHLORIDE POLYMERIZATION WORKERS

COUNTRY	CASE NO.	BIRTH DATE	1ST VC OR PVC EXP.	DX ANGIO-SARCOMA	AGE AT DX	YEARS 1ST EXP. TO DX	TOT. YRS. EXP.	DATE OF DEATH
BELGIUM	01	00-00-00	00-00-00	00-00-00	00	00	00	06-29-76
CANADA	01*	12-15-13	00-00-44	00-00-55	41	10	11	09-02-55
CANADA	02*	03-06-14	00-00-43	00-00-57	43	14	14	12-21-57
CANADA	03*	08-26-19	00-00-41	00-00-62	42	21	20	03-22-62
CANADA	04*	04-05-19	00-00-45	00-00-67	48	22	22	01-21-68
CANADA	05*	05-07-11	00-00-44	00-00-68	57	24	05	07-05-68
CANADA	06*	12-15-19	00-00-47	00-00-71	51	24	23	04-10-71
CANADA	07*	11-09-19	00-00-46	00-00-72	53	26	25	12-24-72
CANADA	08	05-13-20	00-00-61	00-00-73	53	12	05	06-12-73
CANADA	09	07-19-21	00-00-46	00-00-74	53	28	26	09-04-74
CANADA	10	05-16-15	00-00-53	00-00-76	61	23	14	04-00-77
CZECH.	01*	00-00-28	00-00-57	00-00-73	46	16	16	00-00-74
CZECH.	02*	00-00-26	00-00-51	00-00-66	40	15	15	00-00-66
FED. REP. GER.	01*	06-04-30	10-01-56	09-19-68	38	11	11	01-25-69
FED. REP. GER.	02*	07-26-31	10-14-57	09-25-70	40	13	12	12-14-71
FED. REP. GER.	04	09-04-30	04-16-57	00-00-74	44	17	11	11-25-74
FED. REP. GER.	05*	01-01-32	12-16-62	00-00-75	43	13	12	01-09-75
FED. REP. GER.	07*	09-29-26	04-15-54	00-00-75	49	17	12	11-13-75
FED. REP. GER.	08*	10-19-17	04-19-54	00-00-75	58	22	21	12-25-75
FED. REP. GER.	09*	12-13-34	12-02-59	06-16-76	42	17	15	ALIVE
FED. REP. GER.	10	AWAITING DETAILS						
FRANCE	01*	04-15-24	01-00-46	02-18-67	43	21	19	02-19-67
FRANCE	02	06-03-11	07-06-59	01-08-75	63	15	12	01-24-75
FRANCE	03*	00-00-19	00-00-46	01-00-75	55	29	29	06-29-75
FRANCE	04*	01-27-27	10-19-49	01-04-76	49	26	26	01-04-76
FRANCE	05*	01-29-38	00-00-65	04-00-76	38	11	10	05-13-76
FRANCE	06*	04-14-34	00-00-58	09-00-76	42	18	17	09-12-76
FRANCE	07	00-00-27	07-01-50	07-00-76	49	26	23	07-02-76
FRANCE	08	00-00-00	00-00-00	00-00-00	00	00	00	01-30-77
GREAT BRIT.	01*	00-00-01	00-00-46	12-00-72	71	26	20	12-00-72
GREAT BRIT.	03	06-02-37	02-00-66	00-00-74	37	09	04	12-24-74
ITALY	02*	11-13-29	00-00-57	12-13-72	43	15	06	12-00-72
ITALY	03*	03-14-20	00-00-53	07-10-75	55	22	21	07-10-75
JAPAN	01	08-01-22	04-00-53	08-21-74	52	22	22	10-24-75
NORWAY	01*	12-23-15	03-00-50	12-20-71	56	22	21	01-04-72
SWEDEN	01*	06-23-27	08-14-51	02-00-70	43	19	18	10-20-70
SWEDEN	03	AWAITING DETAILS						
SWEDEN	04	AWAITING DETAILS						
U.S.A.	01*	10-17-23	12-09-48	03-03-73	49	22	16	03-03-73
U.S.A.	02*	08-19-33	11-15-55	05-00-70	37	14	13	09-28-71
U.S.A.	03*	05-25-15	11-28-45	12-19-73	58	28	28	12-19-73
U.S.A.	04*	01-15-24	07-06-52	08-19-67	43	15	15	01-07-68
U.S.A.	05*	01-25-12	05-19-44	04-09-64	52	20	18	04-09-64
U.S.A.	06*	00-00-29	01-17-62	02-00-74	45	12	12	07-24-75
U.S.A.	07*	05-03-22	08-27-44	00-00-68	45	24	18	03-23-68
U.S.A.	08*	05-06-20	10-07-46	08-00-61	41	15	15	08-29-61
U.S.A.	09*	11-08-31	09-09-54	03-01-74	43	17	17	03-00-75
U.S.A.	10*	08-16-13	06-12-51	05-00-68	55	17	17	05-10-68
U.S.A.	11*	05-27-09	10-14-46	03-00-70	61	23	23	03-16-70
U.S.A.	12*	11-17-18	09-13-49	05-02-69	50	20	15	05-02-69
U.S.A.	13*	12-01-21	08-19-44	05-00-74	52	30	30	07-04-74
U.S.A.	16*	11-04-27	05-08-50	00-00-69	41	17	4	03-27-69
U.S.A.	17*	05-06-31	06-23-55	10-11-74	43	19	19	ALIVE
U.S.A.	18*	04-22-28	09-15-54	00-00-75	46	21	13	11-02-75
U.S.A.	19*	00-00-15	00-00-43	06-19-75	60	32	32	ALIVE
U.S.A.	20*	08-31-17	00-00-55	01-30-76	58	21	18	01-30-76
U.S.A.	21*	00-00-10	12-00-46	00-00-77	67	30	22	01-02-77
U.S.A.	22*	10-02-23	00-00-49	01-00-76	52	27	27	12-04-76
U.S.A.	23*	00-00-23	09-08-58	00-00-00	50	00	14	04-06-73
U.S.A.	24*	00-00-17	00-00-39	05-27-77	60	38	26	05-27-77
U.S.A.	25*	08-07-10	09-00-47	03-10-77	67	30	20	03-10-77
YUGOSLAVIA	01*	04-05-14	00-00-53	04-08-73	59	20	20	04-08-73
YUGOSLAVIA	02*	11-15-31	00-00-50	07-12-73	42	23	18	07-12-73

Total reported cases = 61

* - indicates microscopically confirmed angiosarcoma of the liver.
"00" - indicates unknown data.