



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.

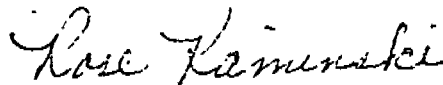
R&S 102901

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,



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

Enclosure

R&S 102902

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 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	06-19-44	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 = 63

* - indicates microscopically confirmed angiosarcoma of the liver.

"00" - indicates unknown data.