

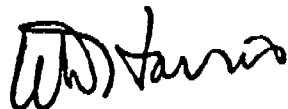
UNIROYAL, Inc.

OXFORD
(Location)

August 5, 1976

TO: R. J. Dowling
FROM: W. D. Harris
SUBJECT: U.S. Cases of Confirmed Deaths Due to Vinyl Chloride
Exposure

The attached table from NIOSH lists the cases of angiosarcoma accepted by the pathologists as typical vinyl chloride induced angiosarcoma. The Bridgeport G.E. worker and the accountant in a fabricating plant have been eliminated. The two cases who are still alive were not included in my calculations which follow the table.



WDH/df

Attachments

cc: B. R. Leach
D. E. Dudrow
R. E. Lowell
J. D. Forbes, M.D.
L. F. Dieringer

BOR 010364

**REPORTED CASES OF ANGIOSARCOMA OF THE LIVER AMONG
VINYL CHLORIDE POLYMERIZATION WORKERS**

HIOSH
Nov. 12

COUNTRY	CASE #	BIRTH DATE	1st VC or PVC EXPOSURE	DX ANGIO-SARCOMA	AGE AT DX	YRS 1st EXP TO DX	TOT YRS EXP	DATE OF DEATH
United States	01*	10-17-23	12-09-43	03-03-73	49	22	16	03-03-73
United States	02*	08-19-33	11-15-55	05-00-70	37	14	13	09-28-71
United States	03*	05-25-15	11-28-45	12-19-73	58	28	28	12-19-73
United States	04*	01-15-24	07-06-52	08-19-67	43	15	15	01-07-63
United States	05*	01-25-12	06-19-44	04-09-64	52	20	18	04-09-64
United States	06*	00-00-29	01-17-62	02-00-74	45	12	12	07-24-75
United States	07*	05-03-22	03-00-44	00-00-68	45	24	18	03-23-68
United States	08*	05-06-20	10-07-46	08-00-61	41	15	15	08-29-61
United States	09*	11-03-31	09-09-54	03-01-74	43	17	17	03-00-75
United States	10*	08-16-13	06-12-51	05-00-68	55	17	17	05-10-68
United States	11*	05-27-09	10-14-46	03-00-70	61	23	23	03-16-70
United States	12*	11-17-13	09-13-49	05-02-69	50	20	15	05-02-69
United States	13*	12-01-21	08-19-44	05-00-74	52	30	30	07-04-74
United States	16*	11-04-27	05-08-50	00-00-69	41	17	4	03-27-69
United States	17*	05-06-31	06-23-55	10-11-74	43	19	19	ALIVE
United States	18*	04-22-28	00-00-54	00-00-75	46	21	13	11-02-75
United States	19	00-00-15	00-00-43	06-19-75	60	32	32	ALIVE
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 = 45

Median Values:

17 U.S. Cases

17 Non-U.S. Cases

34 Total Cases

46.0	20.0	17.0
43.0	17.0	15.0
45.0	18.0	16.0

* Indicates microscopically confirmed angiosarcoma of the liver.

"00" Indicates unknown data.

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Year of Death	Code No's. of workers who died during year	Rolling Ave.	
		Starting 1961	Starting 1968
1961	08	1.0	
1962		0.50	
1963		0.33	
1964	05	0.50	
1965		0.40	
1966		0.33	
1967	04	0.43	
1968	07, 10	0.63	2.0
1969	12, 16	0.78	2.0
1970	02, 11	0.9	2.0
1971		0.82	1.5
1972		0.75	1.2
1973	01, 03	0.84	1.3
1974	06, 09, 13	1.0	1.7
1975	18	1.0	1.8

Recognizing that the big build-up of the industry came in the '50 and '60's and with a 20 year median period between first exposure and diagnosis, there has been no rapid build-up as was feared. It is likely that improvements in new plants offset volume. I would anticipate that there might be a slight increase in incidence over the next few years followed by a decline throughout the remainder of the century.

BOR 010366