

February 9, 1977

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AVON LAKE CANCER CASE

Marie Schmiederer called this morning with the following report:

Dr. Groppe of the Cleveland Clinic called Dr. Nepomuceno, plant physician at Avon Lake Tuesday afternoon. Groppe said he has a woman patient with primary liver cancer, not angiosarcoma. He asked Nepomuceno if we (BFGoodrich) or he are aware of any excess liver cancer rates in the Avon Lake area. Nepomuceno told Groppe he is not aware of any excess rates and then he called Bob Montgomery in the Chemical Division personnel office. Nepomuceno did not know the patient's name.

Ron Cross, Avon Lake Plant Personnel Manager, told Marie this morning that a Mrs. Gearing lives on Moore Road close to the plant and has frequently complained about fumes and odors from our operations. She is reported to have cancer.

I advised Marie that this matter should be confined to the most careful professional and medical level and that the subject should not be discussed in any way which could lead to rumors or get to the media.

I then called Dr. Guyton; Drs. Gold, Dietz and Johnson are out of town. Dr. Guyton will call Nepomuceno to learn details then will decide whether he should get in touch with Dr. Groppe to try to answer his questions. Incidentally we know of no community cancer studies in the Avon Lake area except for the studies conducted by Dr. Peter Infante when he was with the state health department.

C.T.

Cleveland Lane

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Chart 1.

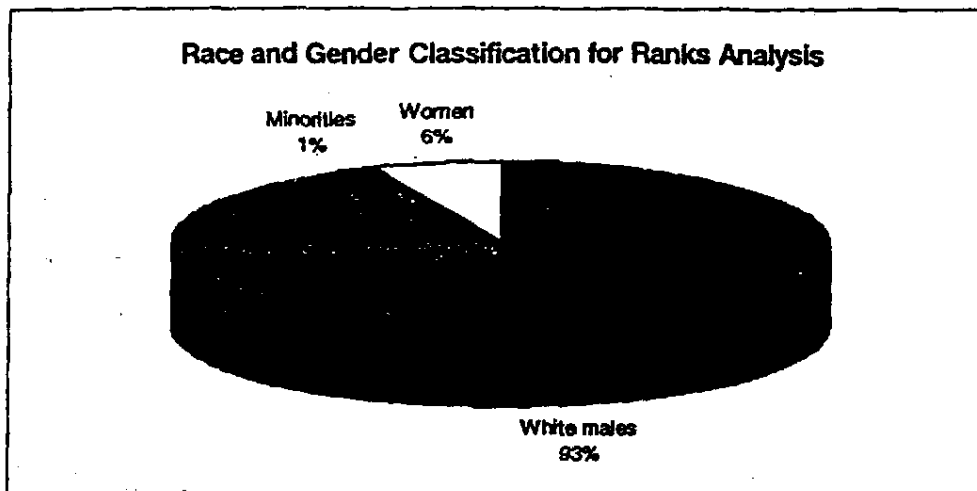


Table 1. Age and Employment Duration per Stratum

Stratum	N	CASE				CONTROLS		
		Start	Stop	Age	Months of Employment	Min Age	Max Age	Avg Age
✓ 1	3	Feb-42	May-73	22	(31.3 yrs)	21	24	23
✓ 2	3	Apr-65	Jul-78	34	(13.2 yrs)	33	35	34
3	2	Sep-49	Oct-81	22	(32.1 yrs)	21	22	22
✓ 4	13	Dec-45	Jun-63	27	(17.5 yrs)	26	28	27
✓ 5	4	Feb-43	Feb-44	18	(1.0 yrs)	18	19	18
6	7	Jan-54	Jun-87	21	(33.4 yrs)	19	23	21
✓ 7	10	Oct-44	May-65	36	(20.6 yrs)	35	38	36
✓ 8	4	Nov-49	Aug-71	36	(21.8 yrs)	36	38	37
9	15	Jan-50	Sep-52	23	(2.7 yrs)	22	25	24
✓ 10	6	Jan-47	Apr-70	33	(23.3 yrs)	33	35	34
11	5	Apr-47	Jan-84	23	(38.7 yrs)	23	24	24
✓ 12	10	Aug-49	Mar-51	23	(1.5 yrs)	21	24	22

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Table B-3: Case series for brain cancer deaths, sorted by date of death.

Case No.	Plant No.	Cause of death (from death certificate)	Year of birth	Year of hire	Year of first exposure	Year of separation	Year of death	Age at death	Duration of exposure	Latency
1	25	glioblastoma multiforme	1897	1930	1935	1957	1957	59	18.3	22.4
2	12	carcinoma of the brain	1897	1922	1954	1958	1958	61	4.3	4.2
3	33	DC NOT FOUND	1909	1950	1950	1951	1959	50	1.0	9.0
4	4	malignant brain tumor	1919	1945	1945	1963	1963	44	17.6	17.7
5	25	glioblastoma multiforme	1910	1930	1935	1965	1967	57	21.9	32.7
6	2	malignant astrocytoma	1913	1955	1957	1968	1968	54	6.8	11.5
7	33	glioblastoma multiforme	1926	1950	1950	1952	1970	43	2.7	20.4
10	8	glioblastoma multiforme	1913	1947	1947	1969	1971	57	22.6	24.2
9	18	malignant brain tumor	1921	1947	1948	1970	1971	49	22.6	23.2
8	10	malignant brain tumor	1913	1949	1949	1970	1971	58	20.7	21.8
11	33	astrocytoma	1917	1956	1956	1958	1971	54	1.5	15.1
12	15	carcinoma of the brain	1905	1940	1962	1968	1972	67	5.7	10.4
13	9	ependymoma	1929	1967	1967	1972	1972	43	5.3	5.4
14	1	glioblastoma multiforme	1932	1965	1965	1973	1973	40	7.0	7.5
15	33	glioblastoma multiforme	1920	1942	1942	1972	1973	53	30.8	31.6
16	25	astrocytoma	1905	1933	1933	1969	1974	69	1.3	41.2
17	27	astrocytoma	1927	1948	1958	1969	1975	48	10.9	17.4
18	6	astrocytoma	1940	1971	1971	1976	1976	35	1.4	4.7

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Table B-3 (continued): Case series for brain cancer deaths, sorted by date of death.

	Case No.	Plant No.	Cause of death (from death certificate)	Year of birth	Year of hire	Year of first exposure	Year of separation	Year of death	Age at death	Duration of exposure	Latency
2	19	33	malignant glioma	1931	1965	1965	1977	1978	46	7.6	13.3
	20	43	glioblastoma	1922	1951	1951	1974	1979	56	3.9	10.1
7	21	33	glioblastoma	1908	1944	1944	1965	1979	70	20.5	34.4
	22	26	glioblastoma multiforme	1922	1950	1955	1979	1980	57	17.3	24.5
	23	25	glioblastoma multiforme	1911	1942	1953	1973	1983	71	7.5	29.9
	24	25	glioblastoma multiforme	1911	1942	1946	1972	1983	72	6.9	36.8
3(?)	25	33	high grade astrocytoma	1924	1944	1944	1984	1984	59	28.9	40.1
12	26	33	brain cancer	1927	1949	1949	1951	1984	57	1.6	35.2
	27	25	glioma of the brain	1916	1939	1939	1964	1985	69	2.4	46.1
	28	33	glioblastoma	1914	1942	1942	1948	1987	72	5.9	44.8
	29	33	brain cancer	1925	1955	1955	1958	1987	61	2.5	31.5
6	30	33	glioblastoma	1932	1954	1954	1987	1987	54	18.9	33.3
11(?)	31	33	brain glioma	1944	1966	1966	1980	1989	44	5.9	22.7
5	32	33	grade III astrocytoma	1925	1943	1943	1944	1989	64	1.0	46.7
	33	9	glioblastoma	1944	1967	1967	1990	1990	46	5.2	23.0
	34	18	malignant glioma	1928	1952	1952	1980	1991	62	20.2	38.4
	35	1	malignant glioblastoma	1922	1965	1965	1980	1992	70	7.2	27.1
	36	36	glioma of the brain	1922	1952	1952	1973	1993	70	20.6	41.3

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