CANCER SURVEILLANCE IN VIRGINIA

Cancer

The Virginia Tumor Registry (VTR) has been operating since 1970, when five hospitals began reporting. It has grown steadily since then (Table 11), so that in 1988 forty-seven hospitals were reporting to the Central Registry.

In this report, data will be presented in two formats, one section will be on all cancer cases ever reported to the VTR (1970-1988), and another section on cases diagnosed in 1988. The most current year for which to report cancer data is 1988, given the acceptable lag time in reporting information on persons with cancer to the VTR.

These data represent an underestimate of the prevalence of cancer in Virginia, given that the VTR was a voluntary, hospital-based registry until July, 1989. Since these statistics are not population based, population rates will not be calculated.

Cancer Cases Reported 1970-1988

Slightly more females than males have been reported with cancer (100,362 females (50.6%, 98,089 males (49.4%)). Eighty percent of the cases have been white (159,510 cases), 19.0% black (37,757 cases) and 0.6% (1,184 cases) another race. Only 1.4% of the reported cases have been less than twenty years old, 3.4% were in their twenties, 5.7% in their thirties, 9.6% in their forties, 19.2% in their fifties, 28.7% in their sixties, and 32.0% have been age 70 or older.

The distribution of body sites affected by cancer in males and females is presented in Table 12. The three most common sites of cancer in males have been lung and bronchus (25.5%), prostate

(17.8%), and colon and rectum (11.4%). Women have most commonly experienced cancer of the breast (27.0%), cervix uteri (12.2%), colon and rectum (11.9%), and lung and bronchus (10.1%).

Cancer Cases Diagnosed in 1988

In 1988, forty-seven of Virginia's hospitals reported a total of 18,095 cases of cancer to the Virginia Tumor Registry. The most frequently reported body sites for cancer cases diagnosed in 1988 are listed in Table 13.

Females were slightly more likely (9,230 cases, 51.0%) than males (8,858 cases, 48.9%) to be reported with cancer. In 1988, cancer of the lung and bronchus was responsible for the most cases in the total population and in males, but was the third most common site in females, following cancer of the breast and colorectal cancer. Whites (14,779 cases) were reported to have cancer more than four times more often than nonwhites (3,309 cases).

Two hundred children were diagnosed with cancer in 1988. Of these, 98 were age 1-9 and 102 were age 10-19. The age distribution of reported cases is shown graphically, depicting a clear increase in cancer risk with advancing age.

The Eastern Region reported the most cases (4,410, 24.4%) followed by the Central (3,304, 18.3%), Northern (3,151, 17.4%), Southwest (3,120, 17.2%), and the Northwest (2,561, 14.1%). Persons residing out of state but diagnosed and/or treated in a Virginia hospital accounted for 1,112 cases.

Data on the five most common cancer sites diagnosed in 1988 are presented in graphic form on the following pages.

Table 11. Number of Hospitals Reporting to the Virginia Tumor Registry and Number of Cases Reported by Year, 1970-1988

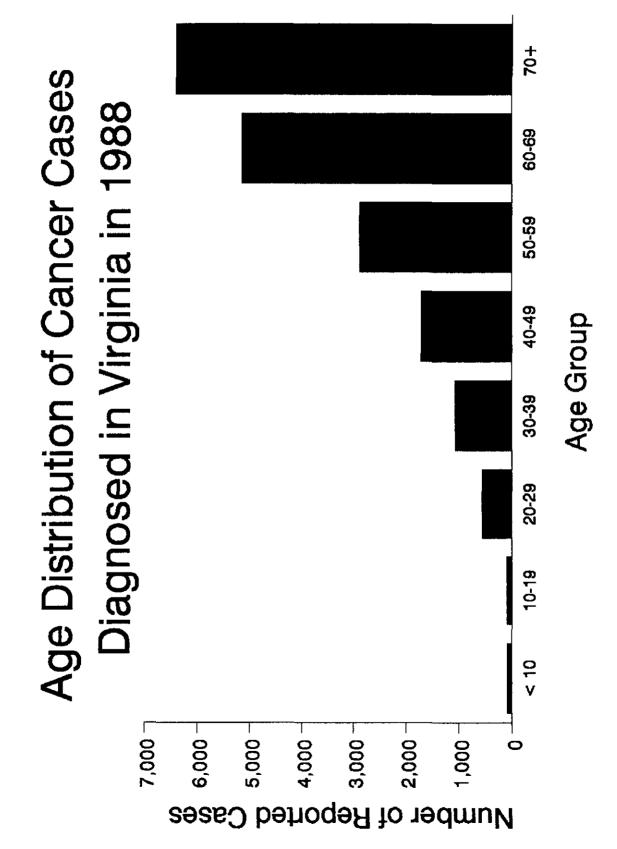
Year	Number of Hospitals Reporting	Number of Cases Reported		
1970	5	2,917		
1971	7	3,304		
1972	8	3,960		
1973	12	4,804		
1974	12	5,407		
1975	12	5,724		
1976	14	6,169		
1977	16	6,814		
1978	17	7,745		
1979	21	10,143		
1980	27	11,546		
1981	32	13,371		
1982	37	14,606		
1983	41	15,434		
1984	42	16,240		
1985	42	16,909		
1986	43	17,382		
1987	44	17,967		
1988	47	18,095		

Table 12. Number and Percent of Cancer Cases Reported to the Virginia Tumor Registry by Sex, 1970-1988

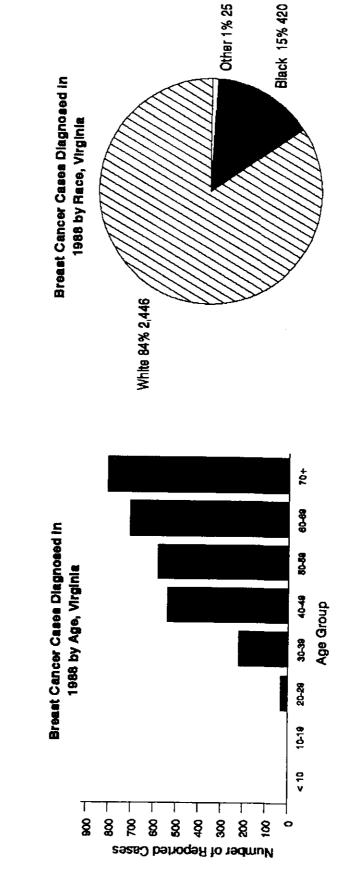
Cancer Site	Total Male			Female		Unk
		number	percent	number	percent	t
TOTAL	198537	98089	49.41	100362	50.55	86
Lung and Bronchus	35112	24994	71.18	10105	28.78	13
Breast	27300	211	0.77	27088	99.22	1
Colon and Rectum	23222	11228	48.35	11988	51.62	6
Prostate	17508	17497	99.94	0	0.00	11
Cervix Uteri	12261	0	0.00	12259	99.98	2
Bladder	7793	5621	72.13	2172	27.87	0
Corpus Uteri	6124	0	0.00	6123	99.98	1
Lymphoma	5113	2778	54.33	2330	45.57	5
Leukemia	4174	2332	55.87	1840	44.08	2
Larynx	3970	3314	83.48	654	16.47	2
Melanoma	3745	1899	50.71	1840	49.13	6
Kidney	3727	2305	61.85	1420	38.10	2
Stomach	3376	2073	61.40	1302	38.57	1
All Others	45112	23837	52.84	21241	47.09	34

Table 13. Number and Percent of Cancer Cases Reported to the Virginia Tumor Registry by Sex, 1988

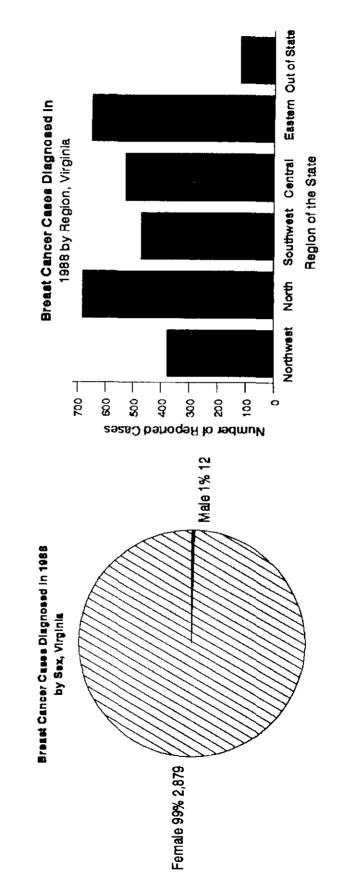
Cancer Site	Total	Male		Female		Unk
	· · · · · · · · · · · · · · · · · · ·	number	percent	number	percent	
TOTAL	18095	8858	48.95	9230	51.01	7
Lung and Bronchus	3208	2178	67.89	1028	32.04	2
Breast	2892	12	0.41	2879	99.55	1
Colon and Rectum	2254	1135	50.35	1118	49.60	1
Prostate	1691	1690	99.94	0	0.00	1
Cervix Uteri	945	0	0.00	945	100.00	(
Bladder	689	499	72.42	190	27.58	(
Lymphoma	532	289	54.32	241	45.30	2
Corpus Uteri	479	0	0.00	479	100.00	(
Kidney	355	215	60.56	140	39.44	(
Leukemia	331	193	58.31	138	41.69	(
Melanoma	316	170	53.80	146	46.20	(
Larynx	305	254	83.28	51	16.72	(
Stomach	275	170	61.82	105	38.18	(
All Others	3823	2053	53.70	1770	46.30	

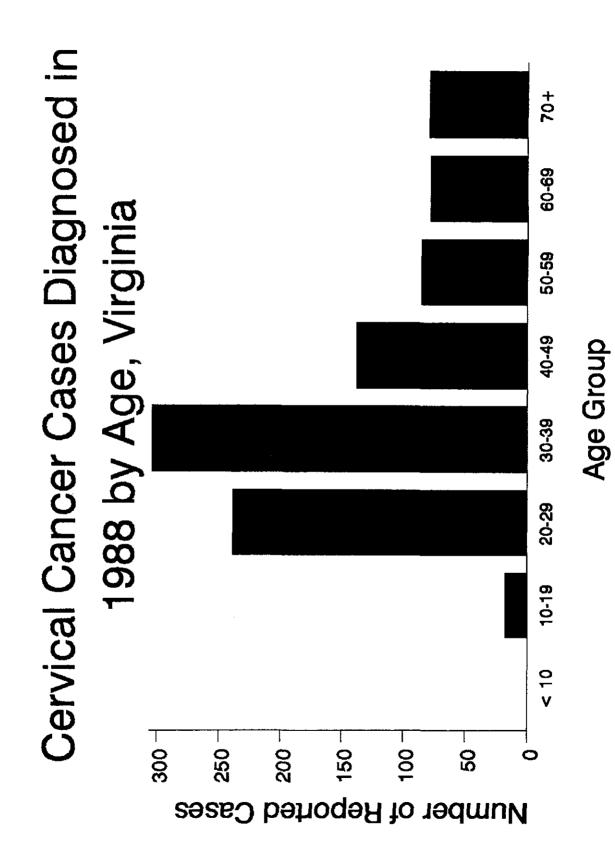


Breast Cancer, Virginia, 1988

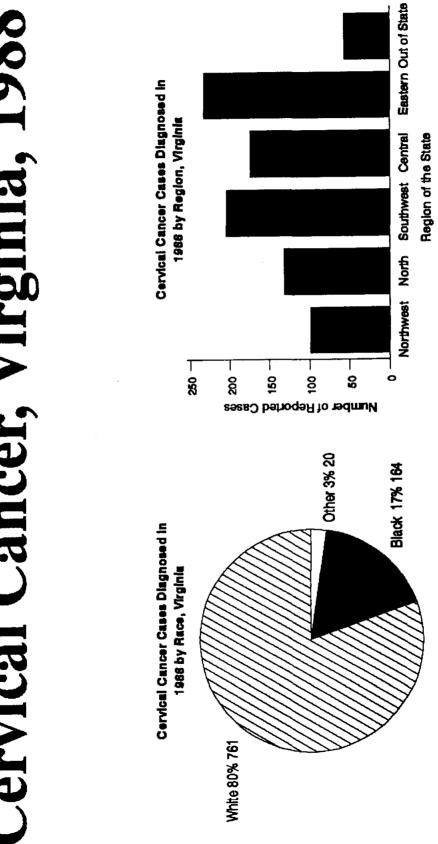


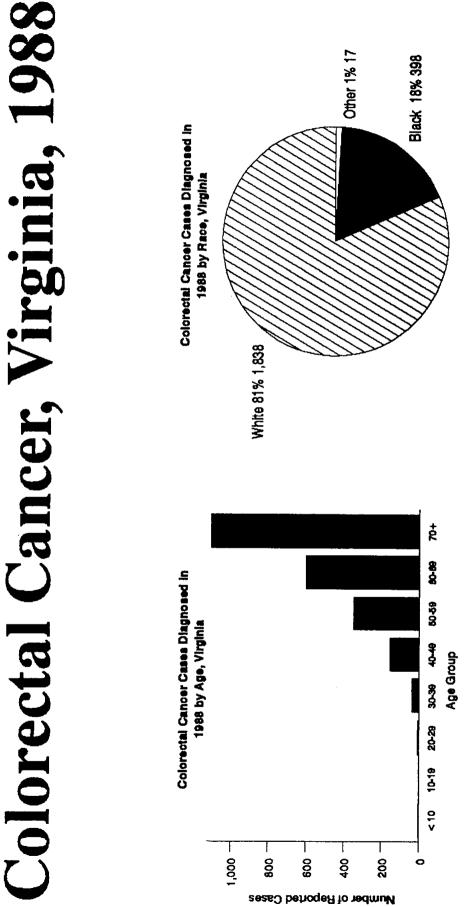
Breast Cancer, Virginia, 1988



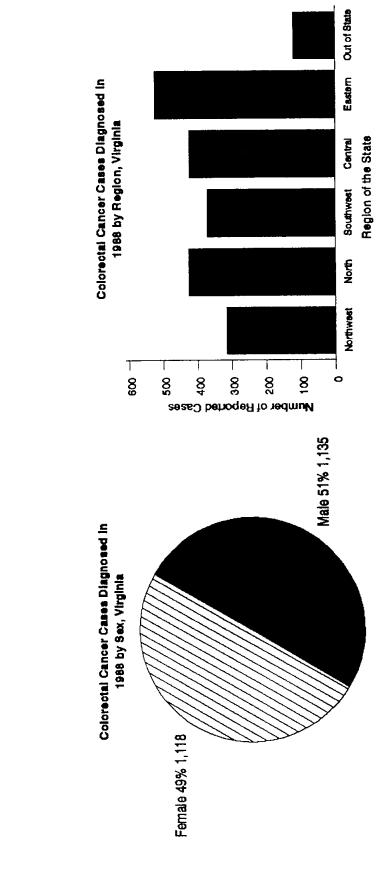


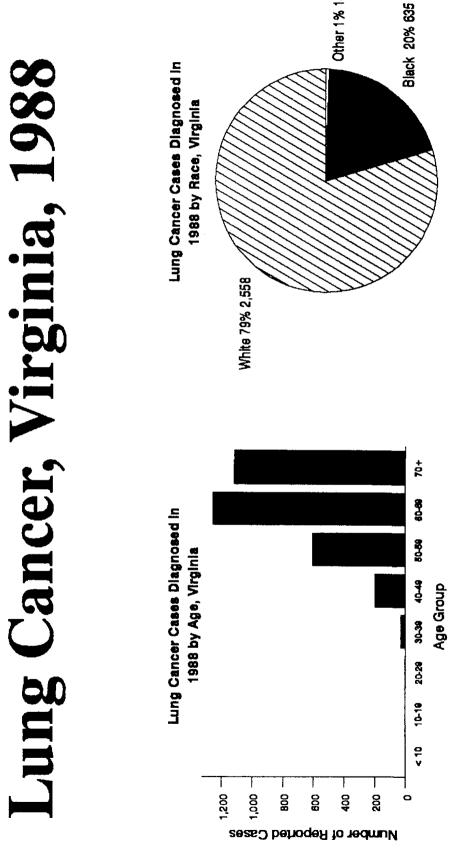
Cervical Cancer, Virginia, 1988



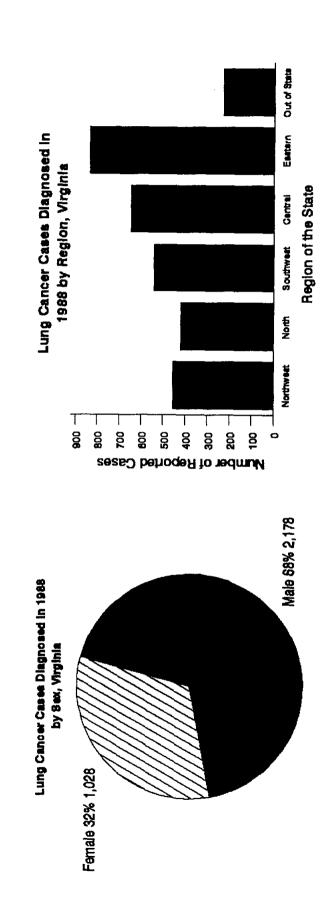


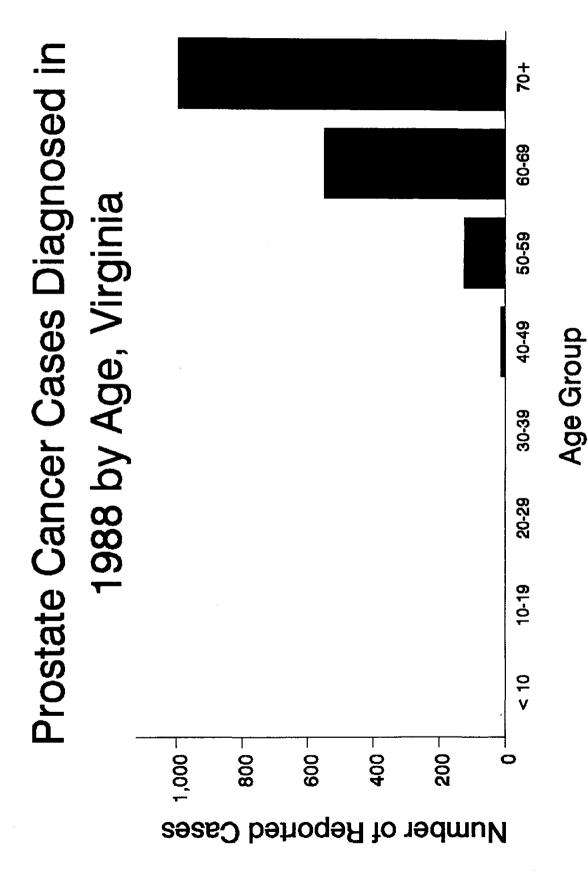
Colorectal Cancer, Virginia, 1988





Lung Cancer, Virginia, 1988





Prostate Cancer, Virginia, 1988

