



State of New Jersey

DEPARTMENT OF HEALTH AND SENIOR SERVICES
DIVISION OF EPIDEMIOLOGY, ENVIRONMENTAL AND OCCUPATIONAL HEALTH
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JAMES E. MCGREEVEY
Governor

CLIFTON R. LACY, M.D.
Commissioner

July 29, 2003

Carol Wolff
Camden Area Health Education Center
514 Cooper Street
Camden, New Jersey 08102

Dear Ms. Wolff:

As requested by the Camden Health Study Task Force, I am providing several follow-up items discussed at the last Task Force meeting in March. The three additional pieces of information enclosed regarding cancer in Camden City include:

1. an SIR analysis for all cancers combined, lung cancer, esophageal cancer, and stomach cancer for each of the 20 census tracts in Camden City;
2. a citywide SIR analysis of childhood cancer for all cancers combined, brain and central nervous system cancers, and leukemia for two age groups (less than 20 years of age and less than 10 years of age); and
3. citywide descriptive incidence numbers by sex and SEER recode group.

Also enclosed is a map of Camden showing the relationship of the city's census tracts.

The two additional items which we are continuing to work on in consultation with Cancer Epidemiology Services include a recalculation of expected numbers using Camden County rates (less Camden City) and an analysis of lung cancer rates in Camden County municipalities. We hope to complete these items shortly.

If you have any further questions concerning this information, please write, or call me at (609) 588-3120.

Sincerely,

Jerald A. Fagliano, M.P.H., Ph.D.
Program Manager

Enclosures

c: Dr. Eddy Bresnitz, Assistant Commissioner/State Epidemiologist, DEEOH
New Jersey State Cancer Registry
Robert Lentine, Camden County Division of Health

Camden City Census Tracts



**Camden City Cancer Incidence (1979-1998): All Races Combined
By Census Tract**

Cancer Type	Sex	Observed	Expected	SIR ¹	95% CI
Census Tract 1:					
All Cancers Combined	Male	20	33.6	0.60 **	0.36 - 0.92
	Female	14	13.7	1.02	0.56 - 1.72
Lung	Male	5	4.3	1.16	0.38 - 2.72
	Female	0	0.9	0	-
Esophageal	Both	<5	NR	2.85	0.04 - 15.8
Stomach	Both	0	0.7	0	-
Census Tract 2:					
All Cancers Combined	Male	137	95.9	1.43 *	1.20 - 1.69
	Female	112	126.7	0.88	0.73 - 1.06
Lung	Male	33	16.6	1.98 *	1.37 - 2.79
	Female	19	12.9	1.48	0.89 - 2.31
Esophageal	Both	12	2.3	5.24 *	2.70 - 9.15
Stomach	Both	<5	NR	0.85	0.23 - 2.18
Census Tract 3:					
All Cancers Combined	Male	201	175.7	1.14	0.99 - 1.31
	Female	151	176.8	0.85	0.72 - 1.00
Lung	Male	44	30.7	1.43 *	1.04 - 1.92
	Female	11	17.3	0.63	0.32 - 1.14
Esophageal	Both	13	3.5	3.68 *	1.96 - 6.29
Stomach	Both	10	7.2	1.38	0.66 - 2.54

¹ Note: *=statistically high, **= statistically low, NR= not reported because observed <5.

Data from the New Jersey Department of Health and Senior Services' State Cancer Registry with analysis by the Department's Consumer and Environmental Health Services (July 2003).

Camden City Cancer Incidence (1979-1998): All Races Combined
By Census Tract

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Cancer Type	Sex	Observed	Expected ¹	SIR	95% CI
Census Tract 4:					
All Cancers Combined	Male	222	208.0	1.07	0.93 - 1.22
	Female	161	209.8	0.77 **	0.65 - 0.90
Lung	Male	67	36.4	1.84 *	1.43 - 2.34
	Female	15	21.2	0.71	0.40 - 1.17
Esophageal	Both	8	4.2	1.89	0.81 - 3.72
Stomach	Both	22	9.0	2.45 *	1.53 - 3.71
Census Tract 5:					
All Cancers Combined	Male	86	83.4	1.03	0.83 - 1.27
	Female	99	103.0	0.96	0.78 - 1.17
Lung	Male	25	14.7	1.70 *	1.10 - 2.51
	Female	14	11.7	1.20	0.66 - 2.01
Esophageal	Both	<5	NR	1.99	0.54 - 5.09
Stomach	Both	7	4.6	1.51	0.60 - 3.11
Census Tract 6:					
All Cancers Combined	Male	12	13.1	0.92	0.47 - 1.60
	Female	7	13.8	0.51	0.20 - 1.04
Lung	Male	<5	NR	0.95	0.11 - 3.42
	Female	<5	NR	2.50	0.50 - 7.32
Esophageal	Both	0	0.3	0	-
Stomach	Both	0	0.5	0	-

¹ Note: *=statistically high, **= statistically low, NR= not reported because observed <5.

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Camden City Cancer Incidence (1979-1998): All Races Combined
By Census Tract

Cancer Type	Sex	Observed	Expected ¹	SIR	95% CI
Census Tract 7:					
All Cancers Combined	Male	91	67.0	1.36 *	1.09 - 1.67
	Female	62	57.6	1.08	0.83 - 1.38
Lung	Male	15	11.0	1.37	0.76 - 2.25
	Female	5	5.2	0.96	0.31 - 2.25
Esophageal	Both	<5	NR	1.67	0.19 - 6.04
Stomach	Both	6	2.3	2.56	0.94 - 5.57
Census Tract 8:					
All Cancers Combined	Male	230	220.2	1.04	0.91 - 1.19
	Female	259	258.0	1.00	0.89 - 1.13
Lung	Male	49	37.7	1.30	0.96 - 1.72
	Female	28	25.8	1.08	0.72 - 1.57
Esophageal	Both	9	4.8	1.86	0.85 - 3.54
Stomach	Both	18	10.3	1.75 *	1.03 - 2.76
Census Tract 9:					
All Cancers Combined	Male	103	111.8	0.92	0.75 - 1.12
	Female	115	137.8	0.83	0.69 - 1.00
Lung	Male	27	18.7	1.44	0.95 - 2.10
	Female	15	12.6	1.19	0.67 - 1.96
Esophageal	Both	5	2.4	2.11	0.68 - 4.92
Stomach	Both	10	4.9	2.05	0.98 - 3.77

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Camden City Cancer Incidence (1979-1998): All Races Combined
By Census Tract

Cancer Type	Sex	Observed	Expected ¹	SIR		95% CI
Census Tract 10:						
All Cancers Combined	Male	161	198.2	0.81	**	0.69 - 0.95
	Female	181	201.4	0.90		0.77 - 1.04
Lung	Male	50	34.2	1.46	*	1.08 - 1.93
	Female	22	19.5	1.13		0.71 - 1.71
Esophageal	Both	<5	NR	0.51		0.06 - 1.83
Stomach	Both	11	8.0	1.38		0.69 - 2.47
Census Tract 11:						
All Cancers Combined	Male	303	313.3	0.97		0.86 - 1.08
	Female	314	384.6	0.82	**	0.73 - 0.91
Lung	Male	85	53.6	1.59	*	1.27 - 1.96
	Female	41	37.4	1.10		0.79 - 1.49
Esophageal	Both	13	7.0	1.87		0.99 - 3.20
Stomach	Both	17	14.8	1.15		0.67 - 1.84
Census Tract 12:						
All Cancers Combined	Male	206	175.0	1.18	*	1.02 - 1.35
	Female	161	209.3	0.77	**	0.66 - 0.90
Lung	Male	39	29.8	1.31		0.93 - 1.79
	Female	15	19.1	0.79		0.44 - 1.30
Esophageal	Both	<5	NR	1.08		0.29 - 2.76
Stomach	Both	7	7.5	0.94		0.37 - 1.93

¹ Note: *=statistically high, **= statistically low, NR= not reported because observed <5.

Camden City Cancer Incidence (1979-1998): All Races Combined
By Census Tract

Cancer Type	Sex	Observed	Expected ¹	SIR	95% CI
Census Tract 13:					
All Cancers Combined	Male	170	155.8	1.09	0.93 - 1.27
	Female	152	199.1	0.76 **	0.65 - 0.89
Lung	Male	37	26.4	1.40	0.99 - 1.94
	Female	14	18.0	0.78	0.43 - 1.31
Esophageal	Both	14	3.4	4.13 *	2.25 - 6.92
Stomach	Both	11	6.8	1.61	0.80 - 2.89
Census Tract 14:					
All Cancers Combined	Male	261	236.1	1.11	0.98 - 1.25
	Female	256	264.9	0.97	0.85 - 1.09
Lung	Male	60	41.8	1.44 *	1.10 - 1.85
	Female	48	27.1	1.77 *	1.31 - 2.35
Esophageal	Both	7	5.2	1.35	0.54 - 2.79
Stomach	Both	15	10.3	1.46	0.82 - 2.41
Census Tract 15:					
All Cancers Combined	Male	279	216.6	1.29 *	1.14 - 1.45
	Female	260	271.4	0.96	0.85 - 1.08
Lung	Male	74	37.8	1.96 *	1.54 - 2.46
	Female	33	26.0	1.27	0.87 - 1.78
Esophageal	Both	9	4.9	1.84	0.84 - 3.49
Stomach	Both	16	9.9	1.62	0.93 - 2.63

¹ Note: *=statistically high, **= statistically low, NR= not reported because observed <5.

Camden City Cancer Incidence (1979-1998): All Races Combined
By Census Tract

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Cancer Type	Sex	Observed	Expected ¹	SIR		95% CI
Census Tract 16:						
All Cancers Combined	Male	110	106.1	1.04		0.85 - 1.25
	Female	92	123.4	0.75	**	0.60 - 0.91
Lung	Male	24	18.7	1.29		0.82 - 1.91
	Female	22	12.4	1.78	*	1.11 - 2.69
Esophageal	Both	<5	NR	0.85		0.10 - 3.08
Stomach	Both	<5	NR	0.83		0.22 - 2.13
Census Tract 17:						
All Cancers Combined	Male	129	112.3	1.15		0.96 - 1.37
	Female	124	157.9	0.79	**	0.65 - 0.94
Lung	Male	37	19.2	1.93	*	1.36 - 2.66
	Female	17	15.9	1.07		0.62 - 1.71
Esophageal	Both	7	2.7	2.56	*	1.02 - 5.27
Stomach	Both	<5	NR	0.51		0.10 - 1.50
Census Tract 18:						
All Cancers Combined	Male	94	82.9	1.13		0.92 - 1.39
	Female	89	90.3	0.99		0.79 - 1.21
Lung	Male	23	14.4	1.59	*	1.01 - 2.39
	Female	13	9.0	1.45		0.77 - 2.47
Esophageal	Both	<5	NR	1.72		0.34 - 5.02
Stomach	Both	9	3.6	2.54	*	1.16 - 4.82

¹ Note: *=statistically high, **= statistically low, NR= not reported because observed <5.

Data from the New Jersey Department of Health and Senior Services' State Cancer Registry with analysis by the Department's Consumer and Environmental Health Services (July 2003).

**Camden City Cancer Incidence (1979-1998): All Races Combined
By Census Tract**

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Cancer Type	Sex	Observed	Expected ¹	SIR		95% CI
Census Tract 19:						
All Cancers Combined	Male	115	101.0	1.14		0.94 - 1.37
	Female	110	120.8	0.91		0.75 - 1.10
Lung	Male	25	17.3	1.44		0.93 - 2.13
	Female	11	10.9	1.01		0.50 - 1.80
Esophageal	Both	<5	NR	1.41		0.28 - 4.13
Stomach	Both	5	4.2	1.20		0.39 - 2.81
Census Tract 20:						
All Cancers Combined	Male	364	312.7	1.16	*	1.05 - 1.29
	Female	318	358.3	0.89	**	0.79 - 0.99
Lung	Male	85	54.5	1.56	*	1.25 - 1.93
	Female	45	38.1	1.18		0.86 - 1.58
Esophageal	Both	13	7.0	1.87		0.99 - 3.20
Stomach	Both	17	15.2	1.12		0.65 - 1.79

¹ Note: *=statistically high, **= statistically low, NR= not reported because observed <5.

Camden City Childhood Cancer Incidence (1979-1998): All Races Combined

Cancer Type	Sex	Observed	Expected	SIR ¹	95% CI
Ages 0-19:					
All Cancers Combined	Male	61	62.8	0.97	0.74 - 1.25
	Female	43	53.2	0.81	0.59 - 1.09
Brain/CNS	Male	9	11.5	0.78	0.36 - 1.49
	Female	6	9.2	0.65	0.24 - 1.42
Leukemia	Male	19	16.8	1.13	0.68 - 1.77
	Female	11	13.2	0.83	0.42 - 1.49
Ages 0-9:					
All Cancers Combined	Male	28	33.1	0.85	0.56 - 1.22
	Female	21	26.3	0.80	0.49 - 1.22
Brain/CNS	Both Male	<5	NR	0.55	0.15 - 1.41
	Female	5	5.5	0.91	0.29 - 2.11
Leukemia	Male	10	11.4	0.87	0.42 - 1.61
	Female	6	9.3	0.64	0.23 - 1.40

¹ Note: NR= not reported because observed <5.

Camden City Malignant Cancer Incidence: 1979-1998 (N=6,446)

<u>Site Group</u>	<u>Site Subgroup</u>	<u>SEER Recode</u>	<u>Male</u>	<u>Female</u>
Oral Cavity and Pharynx	Lip	20010	<5	<5
	Tongue	20020	37	14
	Salivary Gland	20030	<5	7
	Floor of Mouth	20040	16	11
	Gum and Other Mouth	20050	21	8
	Nasopharynx	20060	10	8
	Tonsil	20070	18	7
	Oropharynx	20080	9	<5
	Hypopharynx	20090	28	8
	Other Oral Cavity and Pharynx	20100	11	<5
Digestive System	Esophagus	21010	104	31
	Stomach	21020	116	77
	Small Intestine	21030	13	7
	Cecum	21041	53	52
	Appendix	21042	0	<5
	Ascending Colon	21043	35	36
	Hepatic Flexure	21044	8	5
	Transverse Colon	21045	23	24
	Splenic Flexure	21046	6	11
	Descending Colon	21047	22	27
	Sigmoid Colon	21048	80	85
	Large Intestine, NOS	21049	50	63
	Rectosigmoid Junction	21051	46	45
	Rectum	21052	78	65
	Anus, Anal Canal and Anorectum	21060	6	10
	Liver	21071	31	16
	Intrahepatic Bile Duct	21072	<5	<5
	Gallbladder	21080	10	20
	Other Biliary	21090	8	8
	Pancreas	21100	78	89
Retroperitoneum	21110	<5	<5	
Peritoneum, Omentum and Mesentery	21120	<5	<5	
Other Digestive Organs	21130	<5	<5	
Respiratory System	Nose, Nasal Cavity and Middle Ear	22010	6	<5
	Larynx	22020	82	31
	Lung and Bronchus	22030	825	399
	Pleura	22050	15	<5
	Trachea, Mediastinum and Other Respiratory Organs	22060	5	<5
Bones and Joints		23000	7	7
Soft Tissue including Heart		24000	25	20
Skin excluding Basal and Squamous	Melanoma of the Skin	25010	20	15
	Other Non-Epithelial Skin	25020	28	10
Breast		26000	11	759
Female Genital System	Cervix Uteri	27010	-	198
	Corpus Uteri	27020	-	133
	Uterus, NOS	27030	-	16
	Ovary	27040	-	125
	Vagina	27050	-	7
	Vulva	27060	-	15
	Other Female Genital Organs	27070	-	<5

Male Genital System	Prostate	28010	741	-
	Testis	28020	12	-
	Penis	28030	8	-
	Other Male Genital Organs	28040	<5	-
Urinary System	Urinary Bladder	29010	135	63
	Kidney and Renal Pelvis	29020	62	61
	Ureter	29030	<5	<5
	Other Urinary Organs	29040	0	<5
Eye and Orbit		30000	<5	<5
Brain and Other Nervous System	Brain	31010	35	32
	Cranial Nerves Other Nervous System	31040	<5	<5
Endocrine System	Thyroid	32010	5	33
	Other Endocrine including Thymus	32020	6	<5
Lymphoma	Hodgkin - Nodal	33011	22	15
	Hodgkin - Extranodal	33012	<5	<5
	NHL - Nodal	33041	69	64
	NHL - Extranodal	33042	33	25
Myeloma		34000	58	55
Leukemia	Acute Lymphocytic Leukemia	35011	13	5
	Chronic Lymphocytic Leukemia	35012	14	12
	Other Lymphocytic Leukemia	35013	<5	<5
	Acute Myeloid Leukemia	35021	13	21
	Chronic Myeloid Leukemia	35022	7	9
	Other Myeloid Leukemia	35023	6	<5
	Acute Monocytic Leukemia	35031	<5	<5
	Chronic Monocytic Leukemia	35032	<5	<5
	Other Monocytic Leukemia	35033	0	0
	Other Acute Leukemia	35041	8	5
	Other Chronic Leukemia	35042	0	0
	Aleukemic, Subleukemic and NOS	35043	7	5
		37000	127	136
Miscellaneous			16	14
Other - Squamous Cell Carcinoma (not a reportable condition)				