

Cancer Surveillance in Rural Northeastern Pennsylvania:
Incidence and Mortality of Common Cancers

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Table 1. Standardized incidence ratios by primary cancer site and sex, northeast Pennsylvania[¶], 2004-2008

Primary site	Cases No.	SIR [†]		
		Both Sexes	Men	Women
All sites	22,712	106*	105*	107*
Brain	296	110	108	111
Breast, female	2818	-	-	92*
Bronchus & lung	3,343	115*	131*	98
Colon & rectum	2,753	125*	132*	119*
Esophagus	284	127*	138*	96
Hodgkin's lymphoma	132	122*	128	116
Kidney & renal pelvis	721	110*	113*	106
Larynx	205	137*	142*	119
Leukemia	578	101	97	106
Liver/intra-hepatic bile duct	253	79*	83*	72*
Melanoma of the skin	691	75*	74*	75*
Multiple myeloma	255	92	97	87
Non-Hodgkin's Lymphoma	857	92*	87*	97
Oral cavity & pharynx	521	109	114*	97
Ovary	365	-	-	113*
Pancreas	586	100	106	94
Prostate [§]	2,577	-	76*	-
Stomach	360	105	108	100
Testis	107	-	114	-
Thyroid	693	156*	107	173*
Urinary bladder	1,249	126*	125*	128*
Uterine cervix	181	-	-	133*
Uterine corpus	892	-	-	142*

[¶] Limited to Lackawanna, Luzerne, Pike, Susquehanna, Wayne and Wyoming counties.

[†] Standardized incidence ratio = observed / expected cases X 100.

* Significantly different from 100, p < 0.05.

[§] SIR computed taking race (white, black) into account.

Table 2. Standardized mortality ratios by primary cancer site and sex, northeast Pennsylvania[¶], 2004-2008

Primary site	Deaths No.	SMR†		
		Both Sexes	Men	Women
All sites	9,283	107*	113*	102
Brain	182	95	97	94
Breast, female	621	-	-	99
Bronchus & lung	2,434	99	109*	86*
Colon & rectum	966	116*	121*	112*
Esophagus	256	126*	136*	90
Hodgkin's lymphoma	27	153	226*	72
Kidney & renal pelvis	218	114	110	119
Larynx	72	129	136*	105
Leukemia	366	109	101	119*
Liver/intra-hepatic bile duct	218	87*	91	82
Melanoma of the skin	135	109	119	93
Multiple myeloma	157	92	99	86
Non-Hodgkin's Lymphoma	327	101	95	108
Oral cavity & pharynx	123	104	114	87
Ovary	278	-	-	119*
Pancreas	551	105	110	100
Prostate	479	-	110	-
Stomach	199	112	118	106
Testis	9	-	213	-
Thyroid	19	80	74	84
Urinary bladder	208	98	107	80
Uterine cervix	52	-	-	95
Uterine corpus	165	-	-	140*

[¶] Limited to Lackawanna, Luzerne, Pike, Susquehanna, Wayne and Wyoming counties.

† Standardized mortality ratio = observed / expected deaths X 100.

* Significantly different from 100, p < 0.05.

Table 3. Standardized incidence and mortality ratios by primary cancer site, both sexes, northeast Pennsylvania[†], 2004-2008

Primary site	Cases		Deaths	
	No.	SIR (95% CI*)	No.	SMR (95% CI*)
Brain	296	110 (97.1, 122.1)	182	95 (81.6, 109.4)
Breast, female	2,818	92 (88.6, 95.4)	621	99 (90.9, 106.5)
Bronchus & lung	3,343	115 (110.9, 118.7)	2,434	99 (94.7, 102.6)
Colon & rectum	2,753	125 (120.5, 129.8)	966	116 (108.9, 123.6)
Esophagus	284	127 (112.5, 142.2)	256	126 (110.3, 141.0)
Hodgkin's lymphoma	132	122 (101.4, 143.1)	27	153 (95.2, 210.6)
Kidney & renal pelvis	721	110 (101.9, 117.9)	218	114 (98.4, 128.6)
Larynx	205	137 (118.0, 155.4)	72	129 (99.2, 158.7)
Leukemia	578	101 (93.0, 109.5)	366	109 (98.1, 120.5)
Liver/intra-hepatic bile duct	253	79 (69.5, 89.1)	218	87 (75.3, 98.4)
Melanoma of the skin	691	75 (69.3, 80.5)	135	109 (91.0, 127.9)
Multiple myeloma	255	92 (81.1, 103.7)	157	92 (77.7, 106.5)
Non-Hodgkin's lymphoma	857	92 (85.7, 98.0)	327	101 (90.3, 112.2)
Oral cavity & pharynx	521	109 (99.2, 117.9)	123	104 (85.7, 122.5)
Ovary	365	113 (101.1, 124.2)	278	119 (105.2, 133.2)
Pancreas	586	100 (91.6, 107.7)	551	105 (96.2, 113.7)
Prostate	2,577	76 (73.3, 79.2)	479	110 (99.9, 119.6)
Stomach	360	105 (93.8, 115.5)	199	112 (96.8, 128.0)
Testis	107	114 (92.3, 135.4)	9	213 (73.7, 351.4)
Thyroid	693	156 (144.5, 167.7)	19	80 (43.8, 115.5)
Urinary bladder	1,249	126 (118.6, 132.5)	208	98 (84.8, 111.4)
Uterine cervix	181	133 (113.7, 152.5)	52	95 (69.1, 120.8)
Uterine corpus	892	142 (132.9, 151.6)	165	140 (118.6, 161.4)

[†] Limited to Lackawanna, Luzerne, Pike, Susquehanna, Wayne and Wyoming counties.

* Confidence interval.

Figures in Bold font are significantly different from 100.