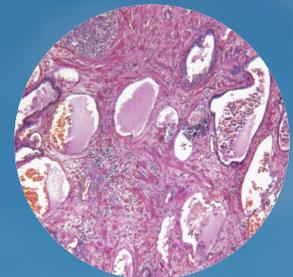




Westchester
— MEDICAL CENTER —

2012 Cancer Report

2011 Registry Data



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Goals and Objectives

Reduce morbidity and mortality of individuals at high risk for and diagnosed with cancer in the Hudson Valley Region and beyond.

- Obtain and disseminate descriptive data concerning the nature and extent of cancer in the communities served to promote cancer prevention and early detection.
- Promote accrual to cancer clinical trials and participate in continuous performance improvement through maintenance of a quality data base and regular reports to the medical staff, New York State Cancer Registry and the National Cancer Data Base.
- Encourage lifetime continuous medical follow-up for all Westchester Medical Center cancer patients through the annual surveillance system.
- Provide internal and external professional education for healthcare providers regarding all aspects of the cancer experience.
- Establish infrastructure competencies and oversight monitoring of subcommittee work to insure program compliance.
- Maintain the standards set forth by the American College of Surgeons Commission on Cancer as a Teaching Hospital Cancer Program along with the Pediatric Cancer Program Component.



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2012 Cancer Committee

Physician Members

Tauseef Ahmed, MD	Chief of Oncology Chair Cancer Committee
Mitchell Cairo, MD, PhD	Chief, Pediatric Hematology, Oncology and Stem Cell Transplantation
John Fallon, MD, PhD	Chairman of Pathology
Zvi Lefkovitz, MD	Chairman of Radiology
Avinash Mohan, MD	Neurosurgery
Chitti Moorthy, MD	Chairman of Radiation Oncology
Kristeen Ortega, MD	Director Rehabilitation Medicine
John Phillips, MD	Chief of Urologic Oncology
Tarah Pua, MD	Gynecologic Oncology
Yvette Smolin, MD	Psychiatry
Kathryn Spanknebel, MD	Chief of Surgical Oncology Cancer Liaison Physician
Oya Tugal, MD	Pediatric Oncology

Program Coordinators

Accreditation Task Force	Kathryn Spanknebel, MD
Conferences and Education	Andres Avila
Outreach	Rose Bartone, LCSW-R & Tarah Pua, MD
Pediatric Cancer Program	Oya Tugal, MD & Mitchell Cairo, MD, PhD
Quality	Carmel Sauerland, MSN, AOCN
Quality of Registry Data	John Fallon, MD, PhD
Research	Oya Tugal, MD & Kathryn Spanknebel, MD

Non-Physician Members

Andres Avila	Cancer Registry
Rose Bartone, LCSW-R	Child Life – Social Work
Marissa Chiapperino	Nutrition Services
Maureen Cooney, FNP	Pain Service – Palliative Care
Anthony Costello	Administration
Virginia Curran, RN	Data Coordinator Clinical Trials
Deanna Derdelinghen, CTR	Cancer Registry, Certicode
Rita Donovan, RN	Oncology Nursing
Francine Fields	Health Information Management
Jean Gottlieb	Quality and Safety
Tricia Hiller, MS, CChS	Director, Child Life
Regina Kristan, MSW, CSW	Oncology Social Services/ Hospice
Rev. Susan Lunning	Pastoral Services
Carmel Sauerland, MSN, AOCN	Oncology Nursing Services
Catherine Spratt, BSN, OCN	Patient Care Services, Cancer Program Administration
Richard Sweeney	Pharmacy
Kristen Welton	American Cancer Society, Community Mission Manager

Acknowledgements

We gratefully acknowledge the work and support of the members of the Cancer Committee, Subcommittees and the Cancer Program.

Special gratitude to the Cancer Registry staff for their dedication and loyalty, and to our wonderful volunteers for their invaluable assistance.

Figure 1
Total Cancer Cases 1981 - 2011
Westchester Medical Center Cancer Registry

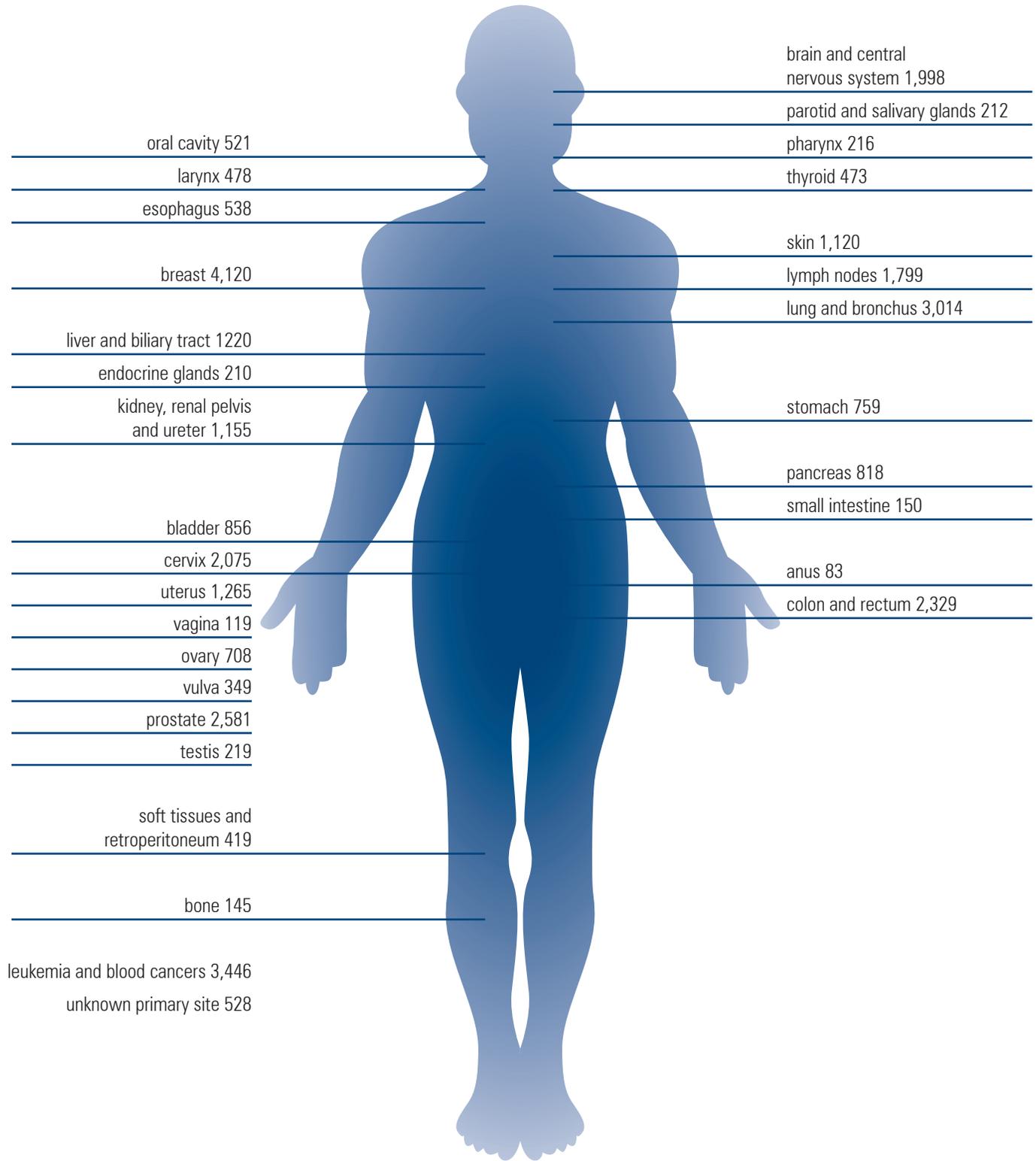


Figure 1A
Total Cancer Cases 1981 - 2011
Westchester Medical Center Cancer Registry

Primary Site	Total	Sex		Class		Dominant/Collaborative AJCC Stage Group						
		Male	Female	Analytic	Non Analytic	0	I	II	III	IV	NA	UNK
C00-Lip	21	17	4	16	5	1	4	4	1	2	0	4
C01-Base of Tongue	127	92	35	112	15	2	9	12	17	56	1	15
C02-Other and Unspecified Parts of Tongue	130	81	49	104	26	5	27	16	15	27	1	13
C03-Gum	31	15	16	21	10	1	5	3	1	8	2	1
C04-Floor of Mouth	85	53	32	69	16	1	15	10	2	29	5	7
C05-Palate	65	41	24	57	8	5	7	10	3	14	6	12
C06-Other and Unspecified Parts of Mouth	62	38	24	55	7	0	8	4	4	27	6	6
C07-Parotid Gland	81	41	40	65	16	0	16	15	11	16	1	6
C08-Other and Unspecified Major Salivary Glands	16	11	5	11	5	0	3	1	1	4	0	2
C09-Tonsil	115	86	29	101	14	0	10	12	19	45	0	15
C10-Oropharynx	45	32	13	39	6	0	2	3	3	21	0	10
C11-Nasopharynx	65	44	21	45	20	0	3	3	8	19	4	8
C12-Pyiform Sinus	38	32	6	32	6	1	2	4	5	17	0	3
C13-Hypopharynx	33	26	7	28	5	0	0	3	3	16	0	6
C14-Other and Ill-Defined Sites in Lip, Oral Cavity and Pharynx	35	26	9	27	8	0	1	3	3	10	10	0
C15-Esophagus	538	381	157	432	106	13	40	73	82	75	8	141
C16-Stomach	759	529	230	606	153	11	94	66	135	182	30	88
C17-Small Intestine	150	86	64	132	18	4	10	17	17	19	38	27
C18-Colon	1,598	868	730	1,058	540	129	190	185	155	189	10	200
C19-Rectosigmoid Junction	204	123	81	139	65	12	20	31	18	20	1	37
C20-Rectum	527	303	224	413	114	42	68	65	77	60	17	84
C21-Anus and Anal Canal	83	36	47	60	23	8	5	20	13	3	1	10
C22-Liver and Intrahepatic Bile Ducts	933	700	233	853	80	0	171	193	181	180	29	99
C23-Gallbladder	105	36	69	81	24	4	8	16	10	30	2	11
C24-Other and Unspecied Parts of Biliary Tract	182	88	94	161	21	4	15	37	29	40	3	33
C25-Pancreas	818	419	399	689	129	5	62	150	111	261	13	87
C26-Other and Ill-Defined Digestive Organs	17	9	8	12	5	0	0	1	0	1	10	0
C30-Nasal Cavity and Middle Ear	28	22	6	20	8	0	1	2	0	1	14	2
C31-Accessory Sinuses	53	36	17	46	7	1	2	0	2	18	19	4
C32-Larynx	397	320	77	343	54	20	81	36	82	106	1	17
C33-Trachea	6	5	1	5	1	0	0	0	0	0	5	0
C34-Bronchus and Lung	3,014	1,747	1,267	2,339	675	5	364	136	537	784	35	478
C37-Thymus	30	11	19	26	4	0	1	1	0	0	24	0
C38-Heart, Mediastinum and Pleura	105	73	32	79	26	0	9	9	9	15	24	13
C39-Other and Ill-Defined Sites within Respiratory System and Intrathoracic Organs	1	1	0	1	0	0	0	0	0	0	1	0
C40-Bones, Joints and Articular Cartilage of Limbs	62	38	24	43	19	0	10	6	2	5	3	17
C41-Bones, Joints and Articular Cartilage of Other and Unspecified Sites	83	52	31	58	25	0	9	3	1	5	21	19
C42-Hematopoietic and Reticuloendothelial Systems	3,446	2,051	1,395	2,268	1,178	0	1	1	1	5	2,258	2

Figure 1A continued
Total Cancer Cases 1981 - 2011
Westchester Medical Center Cancer Registry

Primary Site	Total	Sex		Class		Dominant/Collaborative AJCC Stage Group						
		Male	Female	Analytic	Non Analytic	0	I	II	III	IV	NA	UNK
C44-Skin	1,120	657	462	439	681	44	91	57	60	47	64	76
C47-Peripheral Nerves and Autonomic Nervous System	15	5	10	11	4	0	1	0	0	4	4	2
C48-Retroperitoneum and Peritoneum	102	26	76	85	17	0	5	1	5	9	57	8
C49-Connective, Subcutaneous and Other Soft Tissues	317	195	122	242	75	0	36	23	43	38	60	42
C50-Breast	4,120	35	4,084	3,160	960	376	1,017	903	282	151	6	425
C51-Vulva	349	0	349	247	102	63	50	48	39	18	9	20
C52-Vagina	119	0	118	75	44	26	19	11	4	6	2	7
C53-Cervix Uteri	2,075	0	2,075	794	1,281	2	233	159	145	78	52	125
C54-Corpus Uteri	1,202	0	1,202	1,086	116	15	627	130	125	73	47	69
C55-Uterus, NOS	54	0	54	30	24	0	1	1	3	4	18	3
C56-Ovary	708	0	708	463	245	0	100	27	188	104	9	35
C57-Other and Unspecified Female Genital Organs	29	0	29	25	4	1	4	0	3	3	9	5
C58-Placenta	56	0	56	15	41	0	1	0	2	1	4	7
C60-Penis	27	27	0	22	5	3	8	4	1	1	0	5
C61-Prostate	2,581	2,581	0	2,105	476	7	229	1,380	148	148	1	192
C62-Testis	219	219	0	178	41	2	78	23	13	2	29	31
C63-Other and Unspecified Male Genital Organs	12	12	0	11	1	0	2	0	0	0	8	1
C64-Kidney	1,002	648	354	818	184	0	335	121	107	132	33	90
C65-Renal Pelvis	78	56	22	72	6	14	18	7	14	10	1	8
C66-Ureter	75	50	25	67	8	17	16	10	11	7	1	5
C67-Bladder	856	652	204	583	273	125	116	98	59	82	1	102
C68-Other and Unspecified Urinary Organs	30	18	12	25	5	2	5	1	6	5	4	2
C69-Eye and Adnexa	84	38	46	53	31	0	17	1	4	1	28	2
C70-Meninges	499	155	344	178	321	0	1	0	0	1	176	0
C71-Brain	1,264	700	564	960	304	0	59	39	62	163	622	15
C72-Spinal Cord, Cranial Nerves, and Other Parts of Central Nervous System	220	106	114	108	112	0	2	1	0	3	100	2
C73-Thyroid	473	130	343	390	83	1	243	42	32	26	12	34
C74-Adrenal Gland	84	39	45	69	15	0	0	0	0	3	66	0
C75-Other Endocrine Glands and Related Structures	210	112	98	164	46	0	0	0	0	0	164	0
C76-Other and III-Defined Sites	21	9	12	10	11	0	0	0	0	1	8	1
C77-Lymph Nodes	1,799	1,058	741	958	841	0	149	196	132	310	43	128
C80-Unknown Primary Site	528	260	268	333	195	0	0	0	0	1	331	1
Totals	34416	16357	18056	24422	9994	972	4736	4434	3046	3742	4572	2920

Figure 2
Total Cancer Cases 2011
Westchester Medical Center Cancer Registry

Primary Site	Total	Sex		Class		Dominant/Collaborative AJCC Stage Group						
		Male	Female	Analytic	Non Analytic	0	I	II	III	IV	NA	UNK
C00-Lip	1	0	1	1	0	0	0	0	0	1	0	0
C01-Base of Tongue	2	2	0	2	0	0	1	0	0	1	0	0
C02-Other and Unspecified Parts of Tongue	3	3	0	2	1	0	1	0	0	1	0	0
C03-Gum	1	0	1	0	1	0	0	0	0	0	0	0
C04-Floor of Mouth	3	2	1	2	1	0	1	1	0	0	0	0
C05-Palate	3	2	1	3	0	0	2	0	1	0	0	0
C06-Other and Unspecified Parts of Mouth	3	1	2	3	0	0	1	1	0	0	0	1
C07-Parotid Gland	2	1	1	2	0	0	0	0	2	0	0	0
C08-Other and Unspecified Major Salivary Glands	1	1	0	1	0	0	0	0	0	1	0	0
C09-Tonsil	4	4	0	3	1	0	0	0	0	2	0	1
C10-Oropharynx	1	1	0	0	1	0	0	0	0	0	0	0
C11-Nasopharynx	3	3	0	2	1	0	0	0	0	2	0	0
C13-Hypopharynx	1	0	1	0	1	0	0	0	0	0	0	0
C14-Other and Ill-Defined Sites in Lip, Oral Cavity and Pharynx	2	1	1	2	0	0	0	0	0	0	2	0
C15-Esophagus	8	4	4	6	2	1	1	0	1	1	0	2
C16-Stomach	16	9	7	16	0	0	3	3	4	6	0	0
C17-Small Intestine	6	2	4	5	1	0	0	2	1	1	0	1
C18-Colon	40	23	17	33	7	4	5	6	6	11	0	1
C20-Rectum	18	7	11	12	6	0	3	0	2	6	0	1
C21-Anus and Anal Canal	6	2	4	4	2	1	1	1	1	0	0	0
C22-Liver and Intrahepatic Bile Ducts	55	41	14	42	13	0	12	13	4	7	2	4
C23-Gallbladder	1	1	0	1	0	0	0	0	0	1	0	0
C24-Other and Unspecied Parts of Biliary Tract	3	3	0	3	0	0	0	0	1	0	0	2
C25-Pancreas	41	20	21	34	7	0	5	15	4	6	0	4
C26-Other and Ill-Defined Digestive Organs	1	1	0	1	0	0	0	0	0	0	1	0
C30-Nasal Cavity and Middle Ear	1	1	0	0	1	0	0	0	0	0	0	0
C32-Larynx	8	8	0	6	2	0	1	0	3	2	0	0
C34-Bronchus and Lung	89	44	45	66	23	0	19	6	8	27	0	6
C37-Thymus	1	0	1	1	0	0	0	0	0	0	1	0
C40-Bones, Joints and Articular Cartilage of Limbs	3	2	1	3	0	0	1	1	0	1	0	0
C41-Bones, Joints and Articular Cartilage of Other and Unspecified Sites	6	2	4	5	1	0	3	0	0	1	0	1
C42-Hematopoietic and Reticuloendothelial Systems	128	79	49	97	31	0	0	0	0	1	96	0

continued

Figure 2 continued
 Total Cancer Cases 2011
 Westchester Medical Center Cancer Registry

Primary Site	Total	Sex		Class		Dominant/Collaborative AJCC Stage Group						
		Male	Female	Analytic	Non Analytic	0	I	II	III	IV	NA	UNK
C44-Skin	6	6	0	4	2	0	1	1	0	1	0	1
C47-Peripheral Nerves and Autonomic Nervous System	1	0	1	1	0	0	1	0	0	0	0	0
C48-Retroperitoneum and Peritoneum	2	1	1	2	0	0	0	0	2	0	0	0
C49-Connective, Subcutaneous and Other Soft Tissues	14	7	7	9	5	0	7	0	1	1	0	0
C50-Breast	83	1	82	59	24	9	21	12	5	5	0	7
C51-Vulva	3	0	3	3	0	1	0	1	1	0	0	0
C53-Cervix Uteri	23	0	23	21	2	0	8	1	9	0	1	2
C54-Corpus Uteri	54	0	54	51	3	0	42	0	8	1	0	0
C55-Uterus, NOS	3	0	0	0	0	0	0	0	0	0	0	0
C56-Ovary	42	0	42	25	17	0	3	2	10	9	0	1
C57-Other and Unspecified Female Genital Organs	3	0	3	3	0	0	1	0	1	1	0	0
C60-Penis	2	2	0	1	1	0	0	0	0	0	0	1
C61-Prostate	98	98	0	72	26	0	27	36	6	2	0	1
C62-Testis	7	7	0	7	0	0	5	1	0	0	0	1
C64-Kidney	33	23	10	30	3	0	20	1	4	2	2	1
C65-Renal Pelvis	2	2	0	1	1	1	0	0	0	0	0	0
C66-Ureter	9	9	0	8	1	3	2	1	1	1	0	0
C67-Bladder	43	32	11	38	5	13	9	8	3	5	0	0
C68-Other and Unspecified Urinary Organs	1	1	0	1	0	0	0	0	0	1	0	0
C69-Eye and Adnexa	3	2	1	2	1	0	0	0	0	0	2	0
C70-Meninges	18	6	12	12	6	0	0	0	0	0	12	0
C71-Brain	38	24	14	34	4	0	2	0	0	0	32	0
C72-Spinal Cord, Cranial Nerves, and Other Parts of Central Nervous System	4	2	2	2	2	0	0	0	0	0	2	0
C73-Thyroid	16	8	8	15	1	0	10	0	1	3	0	1
C74-Adrenal Gland	2	1	1	1	1	0	0	0	0	0	1	0
C75-Other Endocrine Glands and Related Structures	4	2	2	3	1	0	0	0	0	0	3	0
C77-Lymph Nodes	42	27	15	31	11	0	5	5	3	12	0	6
C80-Unknown Primary Site	14	5	9	11	3	0	0	0	0	0	11	0
Totals	1031	536	495	806	225	33	224	118	94	123	168	46

Figure 2A
10 Most Frequent
Primary Sites 2011
Analytic Cancer Cases

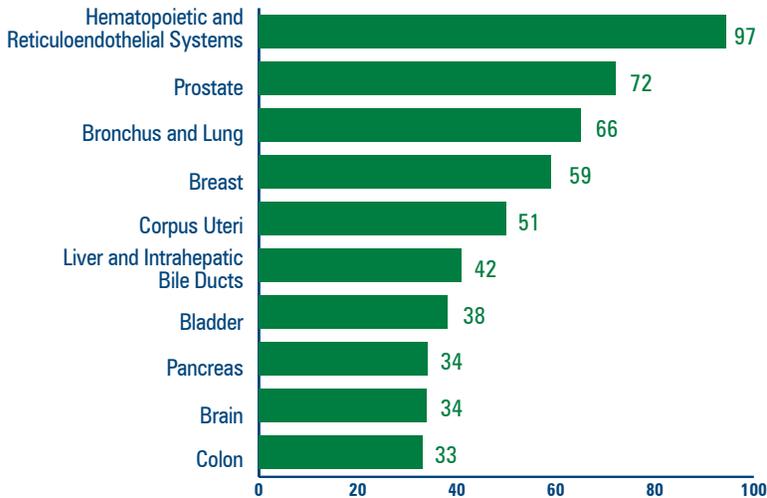
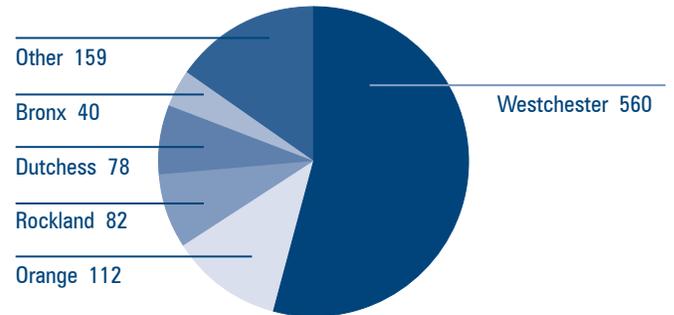


Figure 2B
Geographic Distribution
by County
Total 2011 Cases: 1031



Glossary

Reference Date: Definite starting date of Cancer Registry data collection. All cancer cases diagnosed or treated at WMC after this date must be included in the database.

Accessioned: Entered into the Cancer Registry database by year first seen at WMC for each new primary cancer.

Analytic Case: Case which was first diagnosed and/or received all or part of first course of treatment at WMC.

Non-Analytic Case: Case seen at WMC for recurrent or metastatic disease, after all of the first course of treatment was completed elsewhere. Cases first diagnosed at autopsy.

First Course of Treatment: Initial cancer directed treatment(s) usually initiated or planned within four months after diagnosis.

Extent of Disease (Stage): Determined at the time of initial diagnosis. Stage assigned according to AJCC-TNM Staging System, or SEER Summary Staging.

In-Situ: Tumor meets all microscopic criteria for malignancy except invasion.

Regional: Tumor has spread by direct extension to immediately adjacent organs or tissue and/or metastasized to regional lymph nodes.

Metastases: Change in location of disease of its manifestation or spread from one organ or part to another, not directly connected.

Localized: Tumor is confined to the organ of origin.

Distant: Tumor has spread beyond immediately adjacent organs or tissues by direct extension and/or has either developed secondary or metastatic tumors or metastasized to distant lymph nodes or organs.

Unknown: Classification used when stage cannot be determined from information available or medical authority.

American Joint Committee on Cancer TNM Staging: Staging classification scheme based on the premise that cancer of similar histology or site of origin share similar patterns of growth and extension: (T) Tumor, (N) Nodal involvement, and (M) Distant metastases.

SEER: Surveillance, Epidemiology and End Results, branch of NCI.

NCDB: National Cancer Data Base, project of American College of Surgeons and American Cancer Society.

NOS: Not Otherwise Specified.

Non-Reportable: Patients with a history of cancer only or seen for consult only, are excluded from the registry database in accordance with the American College of Surgeons' guidelines.

Palliative: Therapy that relieves symptoms such as pain without altering the disease course.