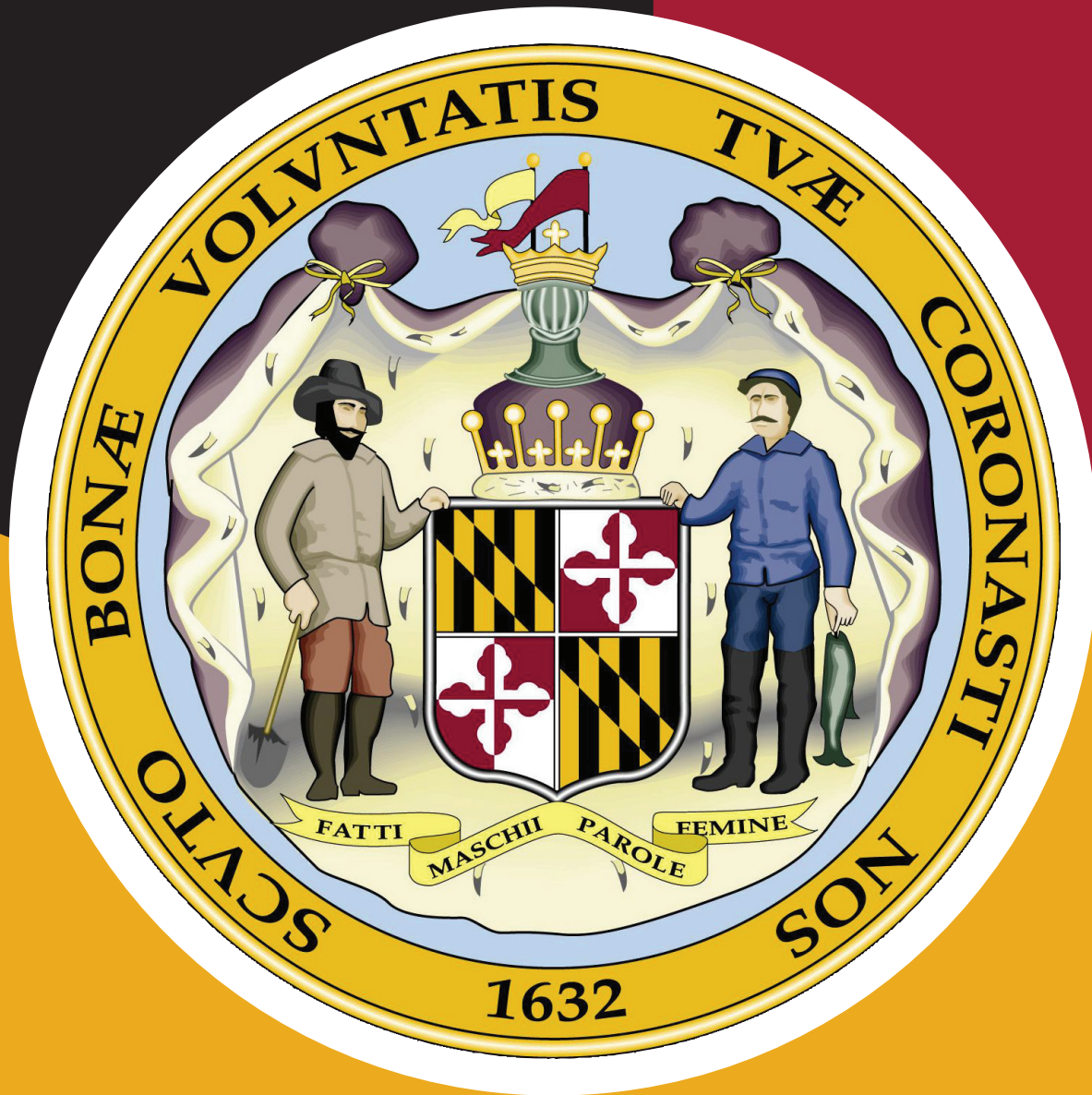


Maryland Department of Health and Mental Hygiene

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Cancer in Maryland: 2012 Incidence and Mortality Report

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Cancer in Maryland: 2012 Incidence and Mortality Report

**Maryland Cancer Registry
Center for Cancer Prevention and Control (CCPC)
Primary Care and Community Health Bureau
Prevention and Health Promotion Administration
Maryland Department of Health and Mental Hygiene**

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I. DATA HIGHLIGHTS

The Maryland Cancer Registry presents cancer incidence and mortality data as a supplement to the Cancer Report 2015 of the Cigarette Restitution Fund Program, located at http://phpa.dhmdh.maryland.gov/cancer/Pages/surv_data-reports.aspx. Data presented in this report includes cancers reported for the year 2012 and are presented as age-adjusted rates and number of cancer cases and deaths by gender and race.

A. Incidence

- A total of **27,962** new cases of invasive cancer were diagnosed among Maryland residents in 2012.
- Most frequently diagnosed cancer by gender:
 - *Males:* **Prostate cancer** was the most frequently diagnosed cancer in 2012 among Maryland men with a total of **3,520** new cases.
 - *Females:* **Breast cancer** was the most commonly reported cancer among Maryland women with a total of **4,397** new cases reported in 2012.

B. Mortality

- **10,525** Maryland residents died as a result of any type of cancer in 2012, making cancer the second leading cause of death in Maryland.
- Cancer of the lung, bronchus and trachea was the most common cause of cancer deaths among Marylanders with **2,744** cancer deaths in 2012. When observed separately by sex, lung, bronchus, and trachea cancer was the leading cause of death among both men and women.

Appendix A of the 2015 Cancer Report of the Cigarette Restitution Fund Program contains cancer report data sources, references, and data considerations. Data suppression followed the Cigarette Restitution Fund Program rules located at: http://phpa.dhmdh.maryland.gov/cancer/Documents/Mortality%20Suppression%20Policy_01062012_FINAL.pdf.

II. INTRODUCTION

According to the Maryland Cancer Registry (MCR), a total of 31,000 Maryland residents were diagnosed with cancer in 2012. Cancer is the second leading cause of death in the United States, exceeded only by heart disease. In the U.S., cancer accounts for nearly one out of every four deaths; in 2012, approximately 577,190 Americans died of cancer (more than 1,500 people a day), and in Maryland, 10,400 people died from cancer.

A. Maryland Cancer Registry (MCR)

The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland and is the State of Maryland's official source for cancer statistics.

History

In 1992, the Maryland General Assembly enacted Maryland Health-General Article §§ 18-203 and 18-204 which required hospitals, radiation therapy centers, and in- and out-of-state cancer diagnostic laboratories (that provide services to Maryland physicians) to electronically report all cancer cases diagnosed and/or treated in Maryland beginning July 1, 1993. In 1996, the laws were amended to require freestanding ambulatory care facilities, surgical centers, and physicians (whose non-hospitalized patients are not otherwise reported by either a hospital, radiation therapy center, surgical center or ambulatory care facility) to report cancer cases diagnosed and/or treated beginning with cases diagnosed January 1, 1999.

In 2001, the Maryland General Assembly enacted House Bill 636, requiring the reporting of benign brain and central nervous system tumors to the MCR effective October 2001.

The Code of Maryland Regulations 10.14.01 were adopted in 1992 and were further amended in 1993, 1997, 2003, and 2012. The MCR operates in accordance with Public Law 20-515 and the standards set by the North American Association of Central Cancer Registries (NAACCR) and the Centers for Disease Control and Prevention's National Program of Cancer Registries (NPCR).

Interstate data collection

Through data exchange agreements with 12 states, including the neighboring states of Delaware, Pennsylvania, Virginia, West Virginia, and the District of Columbia, the MCR collects information on Maryland residents diagnosed and/or treated for cancer in these area. The MCR also receives information on Maryland residents from selected federal hospitals.

Funding

The MCR first received funding from the Centers for Disease Control and Prevention, National Program of Cancer Registries in 1996. The MCR has since received yearly funding from the NPCR to support MCR efforts towards the collection of timely, complete and accurate data. Other funding sources include the Cigarette Restitution Fund and Maryland State General Funds.

B. MCR Operations

The MCR is composed of two entities:

- i. A central office, located in the Center for Cancer Prevention and Control at the Maryland Department of Health and Mental Hygiene (DHMH), which has administrative, technical, analytical, fiscal and custodial oversight of MCR.
- ii. A subcontractor, Westat, Inc., collects and processes all cancer reports, and performs data quality assurance and database management.

C. Organization of this Report

This report is a supplement to the Cancer Report 2015 Cigarette Restitution Fund Program and provides 2012 cancer incidence and mortality statistics for the State of Maryland. Data tables include counts for major cancer sites and age-adjusted incidence and mortality rates by year, site, gender, and race for Maryland and its counties. *New to the 2012 I&M Report* are County Data Pages that summarize data for leading cancer sites in each county.

This report is also available on the MCR website at: http://phpa.dhmh.maryland.gov/cancer/Pages/surv_data-reports.aspx.

III. DATA COLLECTION AND MANAGEMENT

A. Reporting Facilities

This report presents data collected from **48** Maryland hospitals, **12** radiation treatment centers, **49** laboratories, **61** ambulatory surgery centers, **68** physicians and **13** state center cancer registries and the District of Columbia central cancer registry. Each facility is required to submit cancer report on all new cancer cases.

B. Cancer Case Reporting and Definition

The MCR is the source for cancer incidence (new cases) data presented in this report and its database contains two types of tumor cases:

- i. *Invasive cancers* include all malignant cancers at any site (except for non-genital basal and squamous cell carcinoma of skin), and *in situ* cancers of the urinary bladder diagnosed in Maryland residents between January 1, 2012 and December 31, 2012. (American Cancer Society (ACS) criteria)
- ii. *Additional benign and in situ tumors* the Maryland DHMH considers important for the review and evaluation of state cancer control programs. These cases are not included in this report.

The ACS criteria are also used for incidence calculations by the National Cancer Institute's Surveillance Epidemiology End Results Program (SEER), the American College of Surgeons (ACoS), and the North American Association of Central Cancer Registries (NAACCR).

Cancer sites are grouped according to the conventions of the SEER Program using the International Classification of Disease, Third Edition (ICD-O-3) by the World Health Organization (WHO) and are shown in Table A: International Classification of Diseases for Oncology, Third Edition (ICD-O-3) and ICD-10 Codes Used to Derive MCR Incidence and Mortality Cancer Data. Only new cases diagnosed among Maryland residents in 2012 are included in the analysis.

Table A: International Classification of Disease for Oncology, Third Edition (ICD-O-3) and ICD-10 Codes Used to Derive MCR Incidence and Mortality Cancer Data

ICD-O-3 Codes Used to Derive Incidence Data			ICD-10 Codes Used to Derive Mortality Data
Site	Incidence Topography (Site)	Incidence Histology	CDC Wonder Site Selections
All sites	C00.0 – C80.9	Includes all invasive cancers of all sites except --excludes basal and squamous cell skin cancers; Includes in situ cancer of the urinary bladder	C00.0 – C97, D09.0
Brain and Other Nervous System	C70.0--C72.9	Excludes codes 9050-9055, 9140, and 9590-9989	C70.0—C72.9
Cervix	C53.0--C53.9	Excludes codes 9050-9055, 9140, and 9590-9989	C53.0—C53.9
Colon and Rectum	C18.0--C20.9, C26.0	Excludes codes 9050-9055, 9140, and 9590-9989	C18.0—C20.9, C26.0
Corpus and Uterus NOS	C54.0--C54.9, C55.9	Excludes codes 9050-9055, 9140, and 9590-9989	C54.0—C54.9, C55
Esophagus	C15.0--C15.9	Excludes codes 9050-9055, 9140, and 9590-9989	C15.0—C15.9
Female Breast	C50.0--C50.9	Excludes codes 9050-9055, 9140, and 9590-9989	C50.0--C50.9
Hodgkins Lymphoma	C 00.0--C80.9	Includes codes 9650-9667	C81.0 - C81.9
Kidney and Renal Pelvis	C64.9, C65.9	Excludes codes 9050-9055, 9140, and 9590-9989	C64.1 –C64.9, C65.1 – C64.9
Larynx	C32.0--C32.9	Excludes codes 9050-9055, 9140, and 9590-9989	C32.0—C32.9
Leukemia	C00.0--C80.9	Includes codes 9733, 9742, 9800, 9801, 9805, 9820, 9826, 9831-9837, 9840, 9860, 9861, 9863, 9866, 9867, 9870-9876, 9891, 9895-9897, 9910, 9920, 9930, 9931, 9940, 9945, 9946, 9948, 9963, 9964	C91.0 - C91.9, C92.0 - C92.9, C93.0 - C93.9, C94.0 - C94.7, C95.0 - C95.9
	C42.0, C42.1, C42.4	Includes codes 9823, 9827	
Liver and Intrahepatic Bile Duct	C22.0, C22.1	Excludes codes 9050-9055, 9140, and 9590-9989	C22.0—C22.9
Lung and Bronchus	C34.0--C34.9	Excludes codes 9050-9055, 9140, and 9590-9989	C34.0—C34.9

Site	Incidence Topography (Site) ICD-O-3	Incidence Histology	CDC Wonder Site Selections ICD-10
Multiple Myeloma	C42.1, C42.0, C42.4	Includes codes 9731-9732, 9734	C90.0
Myeloma			C88.0 - C88.9, C90.0 - C90.3
Myelodysplastic Syndromes	C42.1	Includes codes 9980,9982-9987,9989, 9991, 9992	D46.0 – D46.9
Non-Hodgkins Lymphoma	C00.0--C80.9	Includes codes 9590-9596, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9689-9691,9695, 9698-9702, 9705, 9708-9709, 9714-9719, 9727-9729	C82.0 - C82.9, C83.0 - C83.9, C84.0 - C84.5, C85.0 - C85.9
	C00.0--C80.9 excluding codes C42.0, C42.1, C42.2	Includes codes 9823, 9827	
Oral Cavity and Pharynx	C00.0--C14.8	Excludes codes 9050-9055, 9140, and 9590-9989	C00.0 - C14.8
Ovary	C56.9	Excludes codes 9050-9055, 9140, and 9590-9989	C56.1 – C56.9
Pancreas	C25.0--C25.9	Excludes codes 9050-9055, 9140, and 9590-9989	C25.0 - C25.9
Prostate	C61.9	Excludes codes 9050-9055, 9140, and 9590-9989	C61
Skin Melanoma	C44.0--C44.9	Includes codes 8720-8790	C43.0 – C43.9
Stomach	C16.0--C16.9	Excludes codes 9050-9055, 9140, and 9590-9989	C16.0 - C16.9
Testis	C62.0--C62.9	Excludes codes 9050-9055, 9140, and 9590-9989	C62.0 – C62.9
Thyroid	C73.9	Excludes codes 9050-9055, 9140, and 9590-9989	C73
Urinary Bladder (includes in situ and malignant)	C67.0--C67.9	Excludes codes 9050-9055, 9140, and 9590-9989	C67.0 - C67.9, D09.0

C. Registry Certification

Every year, NAACCR evaluates MCR data for completeness, quality and timeliness; in 2012, MCR's incidence data received NAACCR gold certification for all measures, indicating that data was at or greater than 95% complete. MCR's 2008 – 2012 incidence data also met the Centers for Disease Control and Prevention's National Program of Cancer Registries (NPCR) National Data Quality Standard and U.S. Cancer Statistics Publication Standard.

D. Quality Control and Quality Assurance (QC/QA)

The MCR conducts two major activities to maintain quality control and assurance of information received: 1) intra- and inter-record edits of cancer case reports, and 2) yearly audits, or case finding review and re-abstracting of a sample of records from selected reporting facilities. The MCR QA/QC program also provides the following components for case finding data completeness:

- i. A review of death certificate data to identify additional cancer cases among deceased Maryland residents who were not previously reported to the MCR, *and*
- ii. Following back with the ordering physician about cases reported by laboratories-only to obtain additional demographic, clinical and treatment data.

E. Data Confidentiality

DHMH regards data received, processed, and reported to or by the MCR confidential, and data are secured from unauthorized access and disclosure. MCR manages and releases information in accordance with the laws and regulations established for and by the State of Maryland as set forth in the Md. Code Ann., Health-General §§ 18-203 and 204, the Code of Maryland Regulations 10.14.01, Cancer Registry and policies available at: http://phpa.dhmfh.maryland.gov/cancer/Pages/mcr_regs.aspx.

IV. DATA CHARTS

The data charts in this report present 2012 cancer incidence by cancer group, gender, and race for the State of Maryland. The County Data Pages contains 2012 counts of incidence and mortality for the top five cancer incidence and mortality rates (2008 – 2012), the top five cancer incidence and mortality rates by gender and race, and the distribution of the top five cancers stage at diagnosis (2008-2012). All tables and charts should be reviewed with caution as small numbers are subject to wide variation. Confidence intervals are included with rates in the state tables to help guide interpretation. In accordance with the MCR Data Use Manual and Procedures, this report presents data in the aggregate.

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2012

Maryland Cancer Incidence Cases by Selected Site, Race,
and Gender, for Males and Females

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Table I 1: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Incidence Rates and 95% Confidence Intervals, By Gender and Race

	Both Genders*** 2012											
	All Races*				White				African-American			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	27,962	432.1	427.0	437.3	19,508	440.4	434.0	446.7	7,132	425.9	415.6	436.3
Brain	403	6.5	5.9	7.2	293	7.1	6.3	8.0	84	5.0	3.9	6.2
Cervix	209	6.3	5.5	7.3	119	5.9	4.8	7.1	74	7.6	5.9	9.6
Colon and Rectum	2,291	35.8	34.4	37.4	1,543	34.5	32.8	36.3	637	40.1	36.9	43.5
Esophagus	270	4.2	3.7	4.7	217	4.8	4.2	5.5	46	2.8	2.0	3.8
Female Breast (Malignant Only)	4,397	125.0	121.2	128.8	2,940	126.9	122.2	131.7	1,217	121.5	114.6	128.7
Hodgkin Lymphoma	141	2.4	2.0	2.8	93	2.5	2.0	3.0	46	2.5	1.8	3.3
Kidney and Renal Pelvis	927	14.2	13.3	15.2	637	14.2	13.1	15.4	262	15.5	13.6	17.6
Larynx	194	2.9	2.5	3.3	128	2.7	2.3	3.3	62	3.6	2.7	4.6
Leukemia	753	12.1	11.2	13.0	528	12.3	11.3	13.5	162	10.3	8.7	12.1
Liver and Intrahepatic Bile Duct	519	7.6	6.9	8.3	288	6.2	5.5	6.9	186	10.4	8.9	12.0
Lung and Bronchus	3,584	56.4	54.5	58.3	2,601	58.5	56.3	60.9	890	55.9	52.2	59.9
Melanoma	1,320	20.7	19.6	21.9	1,288	29.9	28.2	31.6	13	**	**	**
Multiple Myeloma	382	5.9	5.3	6.5	209	4.6	4.0	5.3	157	9.7	8.2	11.5
Myelodysplastic Syndrome	213	3.5	3.0	4.0	168	3.9	3.3	4.5	33	2.2	1.5	3.1
Non-Hodgkin Lymphoma	1,012	15.9	14.9	16.9	756	17.2	16.0	18.5	203	11.9	10.2	13.7
Oral Cavity and Pharynx	710	10.5	9.7	11.3	538	11.7	10.7	12.7	148	8.3	7.0	9.8
Ovary	386	10.9	9.8	12.1	259	11.1	9.8	12.6	103	10.6	8.6	13.0
Pancreas	790	12.4	11.5	13.3	519	11.6	10.6	12.7	237	15.2	13.2	17.4
Prostate	3,520	112.0	108.2	115.9	2,158	97.5	93.3	101.8	1,213	159.7	150.3	169.5
Stomach	452	7.1	6.5	7.8	251	5.7	5.0	6.5	164	10.8	9.1	12.6
Testis	139	5.0	4.2	5.9	103	6.0	4.9	7.3	21	2.4	1.5	3.7
Thyroid	1,011	16.2	15.2	17.3	718	18.2	16.8	19.6	204	11.4	9.8	13.1
Urinary Bladder	1,289	20.5	19.4	21.7	1,046	23.4	21.9	24.9	172	11.5	9.7	13.4
Uterus	973	26.5	24.8	28.2	666	27.3	25.2	29.5	260	26.4	23.2	29.9

*All Races include other specified, unspecified and unknown race

***Both Genders include male, female, hermaphrodite, transsexual and unknown(unspecified).

Rates are per 100,000 and are age-adjusted to the 2000 U.S. Standard Population.

<6 = case counts of 1-5 are suppressed per DHMH/MCR Data Use Policy

** Rates based on case counts of 1-15 are suppressed per DHMH/MCR Data Use Policy

s= Case counts are suppressed to prevent disclosure of data in other cell(s)

Source: Data as of February 26, 2016 Maryland Cancer Registry

Table I 1: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Incidence Rates and 95% Confidence Intervals, By Gender and Race

	Both Genders*** 2012							
	Other****				Spanish/Hispanic Ethnicity (of Any Race)			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	902	248.1	231.4	265.8	750	285.8	262.7	310.1
Brain	16	4.6	2.6	7.6	17	4.5	2.3	7.9
Cervix	11	**	**	**	18	8.6	4.9	14.0
Colon and Rectum	87	25.8	20.4	32.1	63	26.1	19.4	34.1
Esophagus	<6	**	**	**	<6	**	**	**
Female Breast (Malignant Only)	187	85.0	73.0	98.5	139	93.2	77.1	111.4
Hodgkin Lymphoma	<6	**	**	**	<6	**	**	**
Kidney and Renal Pelvis	19	5.4	3.1	8.6	38	15.3	10.3	21.6
Larynx	<6	**	**	**	<6	**	**	**
Leukemia	25	7.1	4.5	10.6	36	12.0	7.6	17.8
Liver and Intrahepatic Bile Duct	42	12.7	9.0	17.4	25	11.2	6.9	17.1
Lung and Bronchus	84	26.3	20.6	32.8	35	19.0	12.8	26.7
Melanoma	<6	**	**	**	14	**	**	**
Multiple Myeloma	6	**	**	**	13	**	**	**
Myelodysplastic Syndrome	6	**	**	**	6	**	**	**
Non-Hodgkin Lymphoma	33	9.2	6.2	13.1	26	11.2	6.8	16.9
Oral Cavity and Pharynx	17	4.5	2.6	7.4	19	8.1	4.5	13.2
Ovary	19	8.3	5.0	13.2	22	13.5	8.0	21.2
Pancreas	27	9.2	5.9	13.5	11	**	**	**
Prostate	71	43.6	33.5	55.8	68	64.1	48.1	83.2
Stomach	29	8.5	5.5	12.4	19	6.8	3.8	11.2
Testis	<6	**	**	**	13	**	**	**
Thyroid	65	15.5	11.9	19.9	55	13.2	9.6	17.8
Urinary Bladder	38	12.4	8.6	17.2	15	**	**	**
Uterus	40	17.6	12.5	24.3	29	21.3	13.7	31.1

*All Races include other specified, unspecified and unknown race

***Both Genders include male, female, hermaphrodite, transsexual and unknown(unspecified).

Rates are per 100,000 and are age-adjusted to the 2000 U.S. Standard Population.

<6 = case counts of 1-5 are suppressed per DHMH/MCR Data Use Policy

** Rates based on case counts of 1-15 are suppressed per DHMH/MCR Data Use Policy

s= Case counts are suppressed to prevent disclosure of data in other cell(s)

****Other includes Asian Pacific Islander, American Indian and Alaskan Native

Source: Data as of February 26, 2016 Maryland Cancer Registry

Table I 2: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Incidence Rates and 95% Confidence Intervals, By Gender and Race for Males

	Male 2012											
	All Races*				White				African-American			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	13,628	469.4	461.3	477.6	9,641	469.6	460.0	479.3	3,376	488.6	470.9	506.7
Brain	241	8.3	7.3	9.5	174	8.8	7.5	10.3	50	6.4	4.7	8.6
Colon and Rectum	1,174	41.8	39.3	44.3	801	39.7	36.9	42.6	310	48.6	43.0	54.8
Esophagus	210	7.4	6.4	8.5	166	8.1	6.9	9.5	37	5.5	3.8	7.8
Hodgkin Lymphoma	70	2.4	1.9	3.1	50	2.7	2.0	3.5	20	2.4	1.4	3.9
Kidney and Renal Pelvis	561	18.8	17.2	20.5	395	18.7	16.9	20.7	150	20.5	17.1	24.3
Larynx	139	4.6	3.9	5.5	88	4.1	3.3	5.1	49	6.9	5.0	9.3
Leukemia	415	15.2	13.8	16.8	291	15.1	13.3	16.9	88	14.8	11.6	18.5
Liver and Intrahepatic Bile Duct	373	12.0	10.7	13.3	204	9.4	8.1	10.8	135	17.7	14.6	21.2
Lung and Bronchus	1,783	64.2	61.1	67.3	1,287	64.2	60.7	67.9	447	72.9	65.8	80.5
Melanoma	794	27.9	25.9	30.0	781	38.6	35.9	41.5	<6	**	**	**
Multiple Myeloma	201	7.0	6.1	8.1	117	5.8	4.7	7.0	74	11.5	8.9	14.7
Myelodysplastic Syndrome	125	4.9	4.1	5.9	100	5.4	4.4	6.6	21	3.6	2.1	5.7
Non-Hodgkin Lymphoma	537	19.0	17.4	20.7	420	21.0	18.9	23.1	95	13.7	10.9	17.0
Oral Cavity and Pharynx	492	15.7	14.3	17.2	380	17.3	15.6	19.2	96	12.6	10.0	15.6
Pancreas	390	13.7	12.3	15.2	271	13.3	11.7	15.0	102	15.7	12.6	19.4
Prostate	3,520	112.0	108.2	115.9	2,158	97.5	93.3	101.8	1,213	159.7	150.3	169.5
Stomach	260	9.4	8.2	10.6	164	8.2	7.0	9.6	77	12.5	9.7	15.9
Testis	139	5.0	4.2	5.9	103	6.0	4.9	7.3	21	2.4	1.5	3.7
Thyroid	237	7.8	6.9	8.9	172	8.5	7.2	9.9	41	5.1	3.6	6.9
Urinary Bladder	986	37.0	34.7	39.5	829	42.5	39.6	45.6	109	18.4	14.8	22.5

*All Races include other specified, unspecified and unknown race

***Both Genders include male, female, hermaphrodite, transsexual and unknown(unspecified).

Rates are per 100,000 and are age-adjusted to the 2000 U.S. Standard Population.

<6 = case counts of 1-5 are suppressed per DHMH/MCR Data Use Policy

** Rates based on case counts of 1-15 are suppressed per DHMH/MCR Data Use Policy

s= Case counts are suppressed to prevent disclosure of data in other cell(s)

Source: Data as of February 26, 2016 Maryland Cancer Registry

Table I 2: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Incidence Rates and 95% Confidence Intervals, By Gender and Race for Males

	Male 2012							
	Other****				Spanish/Hispanic Ethnicity (of Any Race)			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	398	251.6	225.7	279.5	295	270.0	233.8	309.7
Brain	10	**	**	**	7	**	**	**
Colon and Rectum	53	35.8	26.2	47.5	26	26.3	15.9	40.3
Esophagus	<6	**	**	**	<6	**	**	**
Hodgkin Lymphoma	0	0.0	0.0	0.0	<6	**	**	**
Kidney and Renal Pelvis	11	**	**	**	19	18.9	10.0	31.6
Larynx	<6	**	**	**	<6	**	**	**
Leukemia	18	10.9	6.2	17.7	17	12.0	5.3	22.4
Liver and Intrahepatic Bile Duct	33	20.9	14.0	29.8	14	**	**	**
Lung and Bronchus	47	32.7	23.3	44.3	14	**	**	**
Melanoma	<6	**	**	**	9	**	**	**
Multiple Myeloma	<6	**	**	**	6	**	**	**
Myelodysplastic Syndrome	<6	**	**	**	<6	**	**	**
Non-Hodgkin Lymphoma	15	**	**	**	14	**	**	**
Oral Cavity and Pharynx	14	**	**	**	9	**	**	**
Pancreas	12	**	**	**	<6	**	**	**
Prostate	71	43.6	33.5	55.8	68	64.1	48.1	83.2
Stomach	15	**	**	**	9	**	**	**
Testis	<6	**	**	**	13	**	**	**
Thyroid	21	11.3	6.8	17.7	11	**	**	**
Urinary Bladder	27	19.1	12.2	28.3	13	**	**	**

*All Races include other specified, unspecified and unknown race

***Both Genders include male, female, hermaphrodite, transsexual and unknown(unspecified).

Rates are per 100,000 and are age-adjusted to the 2000 U.S. Standard Population.

<6 = case counts of 1-5 are suppressed per DHMH/MCR Data Use Policy

** Rates based on case counts of 1-15 are suppressed per DHMH/MCR Data Use Policy

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****Other includes Asian Pacific Islander, American Indian and Alaskan Native

Source: Data as of February 26, 2016 Maryland Cancer Registry

Table I 3: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Incidence Rates and 95% Confidence Intervals, By Gender and Race for Females

	Female 2012											
	All Races*				White				African-American			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	14,297	407.2	400.4	414.0	9,843	422.0	413.5	430.8	3,744	386.0	373.3	398.9
Brain	162	5.0	4.3	5.9	119	5.6	4.6	6.8	34	3.9	2.7	5.5
Cervix	209	6.3	5.5	7.3	119	5.9	4.8	7.1	74	7.6	5.9	9.6
Colon and Rectum	1,109	31.2	29.3	33.1	739	30.3	28.1	32.7	322	34.1	30.4	38.2
Esophagus	58	1.6	1.2	2.1	49	2.0	1.5	2.7	9	**	**	**
Female Breast (Malignant Only)	4,397	125.0	121.2	128.8	2,940	126.9	122.2	131.7	1,217	121.5	114.6	128.7
Hodgkin Lymphoma	71	2.3	1.8	3.0	43	2.3	1.6	3.1	26	2.6	1.7	3.9
Kidney and Renal Pelvis	365	10.4	9.3	11.5	241	10.2	9.0	11.7	112	11.7	9.6	14.2
Larynx	55	1.4	1.1	1.9	40	1.5	1.1	2.1	13	**	**	**
Leukemia	337	9.7	8.7	10.8	236	10.1	8.8	11.6	74	7.9	6.2	10.0
Liver and Intrahepatic Bile Duct	145	3.9	3.3	4.6	83	3.3	2.6	4.1	51	5.2	3.8	6.9
Lung and Bronchus	1,789	50.5	48.2	53.0	1,308	54.1	51.2	57.2	438	45.4	41.1	50.0
Melanoma	524	15.5	14.1	16.9	505	23.3	21.2	25.5	8	**	**	**
Multiple Myeloma	181	5.0	4.3	5.8	92	3.7	3.0	4.6	83	8.6	6.8	10.7
Myelodysplastic Syndrome	88	2.5	2.0	3.1	68	2.8	2.1	3.5	12	**	**	**
Non-Hodgkin Lymphoma	474	13.3	12.1	14.6	335	14.0	12.5	15.6	108	10.7	8.7	13.0
Oral Cavity and Pharynx	218	6.2	5.4	7.1	158	6.7	5.7	7.9	52	5.2	3.9	6.9
Ovary	386	10.9	9.8	12.1	259	11.1	9.8	12.6	103	10.6	8.6	13.0
Pancreas	395	11.2	10.1	12.4	244	10.1	8.9	11.5	134	14.6	12.2	17.4
Stomach	191	5.4	4.6	6.2	87	3.6	2.9	4.5	86	9.4	7.5	11.7
Thyroid	774	24.0	22.3	25.8	546	27.7	25.4	30.3	163	16.4	13.9	19.2
Urinary Bladder	303	8.5	7.5	9.5	217	8.6	7.5	9.9	63	7.2	5.5	9.2
Uterus	973	26.5	24.8	28.2	666	27.3	25.2	29.5	260	26.4	23.2	29.9

*All Races include other specified, unspecified and unknown race

***Both Genders include male, female, hermaphrodite, transsexual and unknown(unspecified).

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** Rates based on case counts of 1-15 are suppressed per DHMH/MCR Data Use Policy

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Source: Data as of February 26, 2016 Maryland Cancer Registry

Table I 3: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Incidence Rates and 95% Confidence Intervals, By Gender and Race for Females

	Female 2012							
	Other****				Spanish/Hispanic Ethnicity (of Any Race)			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	503	246.2	224.4	269.6	452	305.3	275.2	337.6
Brain	6	**	**	**	10	**	**	**
Cervix	11	**	**	**	18	8.6	4.9	14.0
Colon and Rectum	34	17.4	11.8	24.6	36	25.6	17.5	35.9
Esophagus	0	0.0	0.0	0.0	<6	**	**	**
Female Breast (Malignant Only)	187	85.0	73.0	98.5	139	93.2	77.1	111.4
Hodgkin Lymphoma	<6	**	**	**	<6	**	**	**
Kidney and Renal Pelvis	8	**	**	**	19	13.4	7.7	21.4
Larynx	0	0.0	0.0	0.0	0	**	**	**
Leukemia	7	**	**	**	19	12.1	6.6	19.9
Liver and Intrahepatic Bile Duct	9	**	**	**	10	**	**	**
Lung and Bronchus	36	20.5	14.1	28.7	21	18.4	11.1	28.3
Melanoma	<6	**	**	**	<6	**	**	**
Multiple Myeloma	<6	**	**	**	7	**	**	**
Myelodysplastic Syndrome	<6	**	**	**	<6	**	**	**
Non-Hodgkin Lymphoma	18	8.6	4.9	13.8	12	7.4	3.5	13.4
Oral Cavity and Pharynx	<6	**	**	**	10	**	**	**
Ovary	19	8.3	5.0	13.2	22	13.5	8.0	21.2
Pancreas	15	**	**	**	6	**	**	**
Stomach	14	**	**	**	10	**	**	**
Thyroid	44	19.5	14.1	26.4	44	21.6	15.3	29.8
Urinary Bladder	11	**	**	**	<6	**	**	**
Uterus	40	17.6	12.5	24.3	29	21.3	13.7	31.1

*All Races include other specified, unspecified and unknown race

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****Other includes Asian Pacific Islander, American Indian and Alaskan Native

Source: Data as of February 26, 2016 Maryland Cancer Registry

2012

Maryland Cancer Mortality Cases by Selected Site, Race, and Gender, for Males and Females

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Table M 1: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Mortality Rates and 95% Confidence Intervals, By Gender and Race

	Both Genders 2012											
	All Races*				White				African-American			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	10,525	165.7	162.5	168.9	7,391	164.4	160.6	168.2	2,837	183.0	176.0	190.0
Brain	256	4.0	3.5	4.5	209	4.9	4.2	5.5	43	2.5	1.8	3.4
Cervix	73	2.0	1.6	2.6	38	1.6	1.2	2.3	31	3.0	2.0	4.3
Colon and Rectum	943	14.9	13.9	15.8	611	13.5	12.4	14.6	304	20.1	17.7	22.5
Esophagus	273	4.2	3.7	4.7	218	4.8	4.2	5.5	50	3.0	2.2	4.0
Female Breast (Malignant Only)	857	23.7	22.1	25.3	568	23.1	21.1	25.0	259	26.5	23.2	29.8
Hodgkins Lymphoma	24	0.4	0.2	0.6	14	**	**	**	s	**	**	**
Kidney and Renal Pelvis	205	3.2	2.8	3.7	154	3.4	2.9	3.9	46	3.0	2.1	4.0
Larynx	64	1.0	0.8	1.3	43	0.9	0.7	1.3	s	1.4	0.8	2.2
Leukemia	396	6.4	5.8	7.1	306	7.0	6.2	7.8	75	4.9	3.8	6.2
Liver and Intrahepatic Bile Duct	440	6.6	6.0	7.3	259	5.6	4.9	6.3	152	9.0	7.5	10.5
Lung and Bronchus	2,744	43.5	41.8	45.1	1,998	44.7	42.8	46.7	677	44.2	40.7	47.7
Melanoma	169	2.7	2.3	3.1	160	3.6	3.1	4.2	<10	**	**	**
Multiple Myeloma	253	4.0	3.5	4.5	143	3.2	2.6	3.7	106	7.0	5.6	8.4
Non-Hodgkins Lymphoma	315	5.1	4.5	5.7	250	5.6	4.9	6.3	57	3.8	2.9	5.0
Oral Cavity and Pharynx	138	2.1	1.7	2.5	93	2.0	1.6	2.5	44	2.6	1.9	3.6
Ovary	267	7.3	6.4	8.2	192	7.6	6.5	8.7	64	7.0	5.4	9.0
Pancreas	744	11.6	10.8	12.5	505	11.2	10.2	12.1	216	13.9	12.0	15.9
Prostate	499	20.4	18.6	22.2	317	17.4	15.5	19.4	179	35.4	29.9	41.0
Stomach	180	2.8	2.4	3.2	91	2.0	1.6	2.5	79	5.4	4.2	6.8
Urinary Bladder	297	4.8	4.2	5.3	241	5.3	4.6	6.0	49	3.3	2.4	4.4
Uterus	213	5.8	5.0	6.6	110	4.4	3.5	5.2	97	10.1	8.2	12.5

*All Races includes White, Black or African American, Asian or Pacific Islander, American Indian or Alaska Native

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** Rates based on case counts of 0-19 are suppressed per DHMH / CDC Data Use Policy

Source: NCHS Compressed Mortality File in CDC Wonder

Table M 1: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Mortality Rates and 95% Confidence Intervals, By Gender and Race

	Both Genders 2012							
	***Other				Spanish/Hispanic Ethnicity (of Any Race)			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	297	90.9	79.9	101.8	173	81.3	67.7	94.9
Brain	<10	**	**	**	<10	**	**	**
Cervix	<10	**	**	**	<10	**	**	**
Colon and Rectum	28	7.9	5.1	11.7	12	**	**	**
Esophagus	<10	**	**	**	<10	**	**	**
Female Breast (Malignant Only)	30	14.1	9.3	20.5	19	**	**	**
Hodgkins Lymphoma	<10	**	**	**	<10	**	**	**
Kidney and Renal Pelvis	<10	**	**	**	<10	**	**	**
Larynx	<10	**	**	**	<10	**	**	**
Leukemia	15	**	**	**	11	**	**	**
Liver and Intrahepatic Bile Duct	29	9.4	6.1	13.8	11	**	**	**
Lung and Bronchus	69	22.8	17.4	29.2	18	**	**	**
Melanoma	<10	**	**	**	<10	**	**	**
Multiple Myeloma	<10	**	**	**	<10	**	**	**
Non-Hodgkins Lymphoma	<10	**	**	**	13	**	**	**
Oral Cavity and Pharynx	<10	**	**	**	<10	**	**	**
Ovary	11	**	**	**	10	**	**	**
Pancreas	23	7.4	4.6	11.4	15	**	**	**
Prostate	<10	**	**	**	<10	**	**	**
Stomach	10	**	**	**	10	**	**	**
Urinary Bladder	<10	**	**	**	<10	**	**	**
Uterus	<10	**	**	**	<10	**	**	**

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** Rates based on case counts of 0-19 are suppressed per DHMH / CDC Data Use Policy

***Other Includes Asian or Pacific Islander and American Indian or Alaska Native

s=Death counts are suppressed to prevent disclosure of data in other cell(s)

Source: CDC Wonder

Table M 2: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Mortality Rates and 95% Confidence Intervals, By Gender and Race for Males

	Male 2012											
	All Races*				White				African-American			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	5,328	197.3	191.9	202.8	3,791	194.1	187.8	200.4	1,409	233.2	220.0	246.4
Brain	155	5.4	4.5	6.3	126	6.3	5.2	7.4	26	3.7	2.4	5.6
Colon and Rectum	507	18.5	16.8	20.2	325	16.5	14.7	18.3	167	26.8	22.4	31.2
Esophagus	225	7.9	6.8	8.9	182	8.9	7.6	10.2	39	5.8	4.0	8.1
Hodgkins Lymphoma	<10	**	**	**	<10	**	**	**	<10	**	**	**
Kidney and Renal Pelvis	125	4.6	3.8	5.4	93	4.7	3.8	5.8	30	4.9	3.2	7.2
Larynx	s	2.1	1.6	2.8	s	1.9	1.4	2.7	s	3.5	2.0	5.6
Leukemia	214	8.3	7.2	9.5	164	8.8	7.4	10.2	43	7.5	5.2	10.3
Liver and Intrahepatic Bile Duct	302	10.1	8.9	11.2	180	8.6	7.3	9.8	104	14.5	11.5	17.5
Lung and Bronchus	1,455	53.6	50.7	56.4	1,033	52.7	49.4	56.0	389	63.9	57.0	70.7
Melanoma	111	4.2	3.4	5.0	105	5.5	4.4	6.5	<10	**	**	**
Multiple Myeloma	120	4.6	3.7	5.4	73	3.8	3.0	4.9	45	7.6	5.4	10.5
Non-Hodgkins Lymphoma	166	6.4	5.4	7.4	136	7.2	5.9	8.4	27	4.7	3.0	7.1
Oral Cavity and Pharynx	97	3.2	2.6	4.0	64	3.1	2.3	3.9	s	4.5	3.0	6.6
Pancreas	374	13.5	12.1	14.9	265	13.3	11.6	14.9	92	15.0	11.8	18.8
Prostate	499	20.4	18.6	22.2	317	17.4	15.5	19.4	179	35.4	29.9	41.0
Stomach	108	4.0	3.2	4.7	55	2.8	2.1	3.7	47	7.9	5.7	10.8
Urinary Bladder	209	8.3	7.1	9.4	174	9.2	7.8	10.6	31	5.8	3.9	8.5

*All Races includes White, Black or African American, Asian or Pacific Islander, American Indian or Alaska Native

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** Rates based on case counts of 0-19 are suppressed per DHMH / CDC Data Use Policy

Source: CDC Wonder

Table M 2: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Mortality Rates and 95% Confidence Intervals, By Gender and Race

	Male 2012							
	***Other				Spanish/Hispanic Ethnicity (of Any Race)			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	128	86.0	69.9	102.0	75	75.3	56.1	99.0
Brain	<10	**	**	**	<10	**	**	**
Colon and Rectum	15	**	**	**	<10	**	**	**
Esophagus	<10	**	**	**	<10	**	**	**
Hodgkins Lymphoma	<10	**	**	**	<10	**	**	**
Kidney and Renal Pelvis	<10	**	**	**	<10	**	**	**
Larynx	<10	**	**	**	<10	**	**	**
Leukemia	<10	**	**	**	<10	**	**	**
Liver and Intrahepatic Bile Duct	18	**	**	**	<10	**	**	**
Lung and Bronchus	33	25.2	16.8	36.5	<10	**	**	**
Melanoma	<10	**	**	**	<10	**	**	**
Multiple Myeloma	<10	**	**	**	<10	**	**	**
Non-Hodgkins Lymphoma	<10	**	**	**	<10	**	**	**
Oral Cavity and Pharynx	<10	**	**	**	<10	**	**	**
Pancreas	17	**	**	**	<10	**	**	**
Prostate	<10	**	**	**	<10	**	**	**
Stomach	<10	**	**	**	<10	**	**	**
Urinary Bladder	<10	**	**	**	<10	**	**	**

Rates are per 100,000 and are age-adjusted to the 2000 U.S. Standard Population.

<10 = case counts of 0-9 are suppressed per DHMH / CDC Data Use Policy

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** Rates based on case counts of 0-19 are suppressed per DHMH / CDC Data Use Policy

***Other Includes Asian or Pacific Islander and American Indian or Alaska Native Source:

Source: CDC Wonder

Table M 3: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Mortality Rates and 95% Confidence Intervals, By Gender and Race for Females

	Female 2012											
	All Races*				White				African-American			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	5,197	144.4	140.4	148.3	3,600	143.8	139.0	148.6	1,428	153.9	145.7	162.1
Brain	101	3.0	2.4	3.6	83	3.7	2.9	4.6	17	**	**	**
Cervix	73	2.0	1.6	2.6	38	1.6	1.2	2.3	31	3.0	2.0	4.3
Colon and Rectum	436	12.1	10.9	13.3	286	11.1	9.8	12.5	137	15.6	12.9	18.3
Esophagus	48	1.3	1.0	1.8	36	1.4	1.0	2.0	11	**	**	**
Female Breast (Malignant Only)	857	23.7	22.1	25.3	568	23.1	21.1	25.0	259	26.5	23.2	29.8
Hodgkins Lymphoma	s	**	**	**	s	**	**	**	<10	**	**	**
Kidney and Renal Pelvis	80	2.2	1.7	2.8	61	2.4	1.8	3.1	16	**	**	**
Larynx	<10	**	**	**	<10	**	**	**	<10	**	**	**
Leukemia	182	5.0	4.3	5.8	142	5.5	4.6	6.5	32	3.4	2.3	4.8
Liver and Intrahepatic Bile Duct	138	3.9	3.2	4.5	79	3.1	2.5	3.9	48	5.2	3.8	6.9
Lung and Bronchus	1,289	36.1	34.1	38.1	965	38.8	36.3	41.3	288	31.9	28.1	35.7
Melanoma	58	1.6	1.2	2.1	55	2.3	1.7	3.0	<10	**	**	**
Multiple Myeloma	133	3.8	3.1	4.4	70	2.8	2.1	3.5	61	6.8	5.2	8.8
Non-Hodgkins Lymphoma	149	4.2	3.5	4.8	114	4.5	3.7	5.4	30	3.3	2.2	4.8
Oral Cavity and Pharynx	41	1.1	0.8	1.5	29	1.1	0.7	1.5	s	**	**	**
Ovary	267	7.3	6.4	8.2	192	7.6	6.5	8.7	64	7.0	5.4	9.0
Pancreas	370	10.3	9.2	11.3	240	9.5	8.3	10.8	124	13.5	11.0	15.9
Stomach	72	2.0	1.5	2.5	36	1.4	1.0	2.0	32	3.8	2.5	5.4
Urinary Bladder	88	2.4	1.9	3.0	67	2.6	2.0	3.3	18	**	**	**
Uterus	213	5.8	5.0	6.6	110	4.4	3.5	5.2	97	10.1	8.2	12.5

*All Races includes White, Black or African American, Asian or Pacific Islander, American Indian or Alaska Native

Rates are per 100,000 and are age-adjusted to the 2000 U.S. Standard Population.

<10 = case counts of 0-9 are suppressed per DHMH / CDC Data Use Policy

s=Death counts are suppressed to prevent disclosure of data in other cell(s)

** Rates based on case counts of 0-19 are suppressed per DHMH / CDC Data Use Policy

Source: CDC Wonder

Table M 3: Cancer Sites and All Sites Combined for Maryland:
Count, Age-Adjusted Mortality Rates and 95% Confidence Intervals, By Gender and Race

	Female 2012							
	***Other				Spanish/Hispanic Ethnicity (of Any Race)			
	Count	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI
All Sites	169	94.0	79.1	108.8	98	84.2	67.3	104.2
Brain	<10	**	**	**	<10	**	**	**
Cervix	<10	**	**	**	<10	**	**	**
Colon and Rectum	13	**	**	**	<10	**	**	**
Esophagus	<10	**	**	**	<10	**	**	**
Female Breast (Malignant Only)	30	14.1	9.3	20.5	19	**	**	**
Hodgkins Lymphoma	<10	**	**	**	<10	**	**	**
Kidney and Renal Pelvis	<10	**	**	**	<10	**	**	**
Larynx	<10	**	**	**	<10	**	**	**
Leukemia	<10	**	**	**	<10	**	**	**
Liver and Intrahepatic Bile Duct	11	**	**	**	<10	**	**	**
Lung and Bronchus	36	21.3	14.6	29.8	<10	**	**	**
Melanoma	<10	**	**	**	<10	**	**	**
Multiple Myeloma	<10	**	**	**	<10	**	**	**
Non-Hodgkins Lymphoma	<10	**	**	**	<10	**	**	**
Oral Cavity and Pharynx	<10	**	**	**	<10	**	**	**
Ovary	11	**	**	**	10	**	**	**
Pancreas	<10	**	**	**	<10	**	**	**
Stomach	<10	**	**	**	<10	**	**	**
Urinary Bladder	<10	**	**	**	<10	**	**	**
Uterus	<10	**	**	**	<10	**	**	**

Rates are per 100,000 and are age-adjusted to the 2000 U.S. Standard Population.

<10 = case counts of 0-9 are suppressed per DHMH / CDC Data Use Policy

s=Death counts are suppressed to prevent disclosure of data in other cell(s)

** Rates based on case counts of 0-19 are suppressed per DHMH / CDC Data Use Policy

***Other Includes Asian or Pacific Islander and American Indian or Alaska Native Source:

Source: CDC Wonder

2012 Maryland Incidence and Mortality Cancer Fact Sheets (By County)

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Maryland Department of
Health and Mental Hygiene

Allegany County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

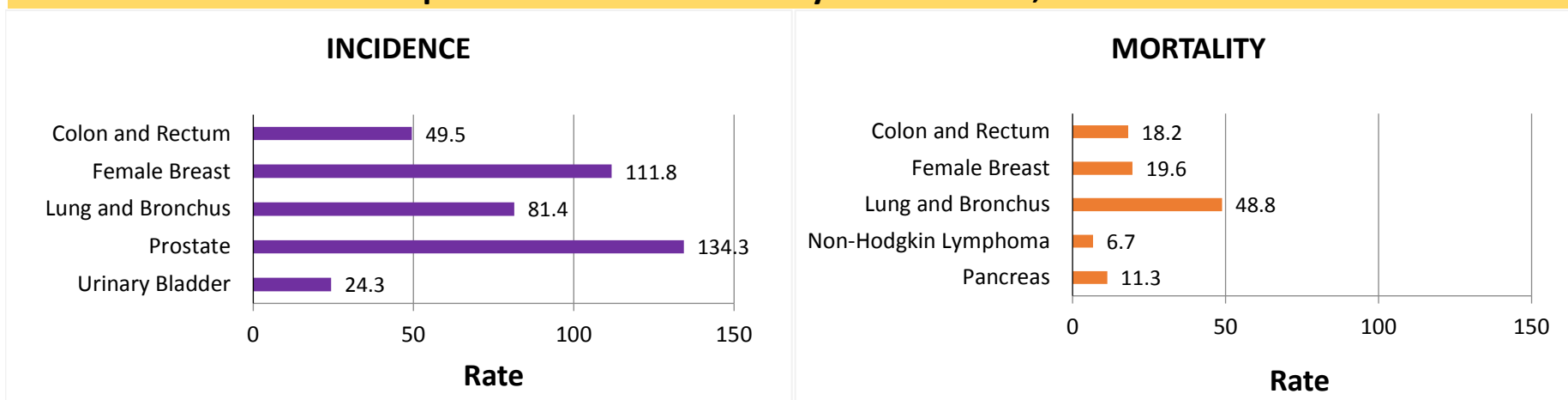
The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in **2012**. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

In 2012, the number of incidence and mortality cases in Allegany County were:

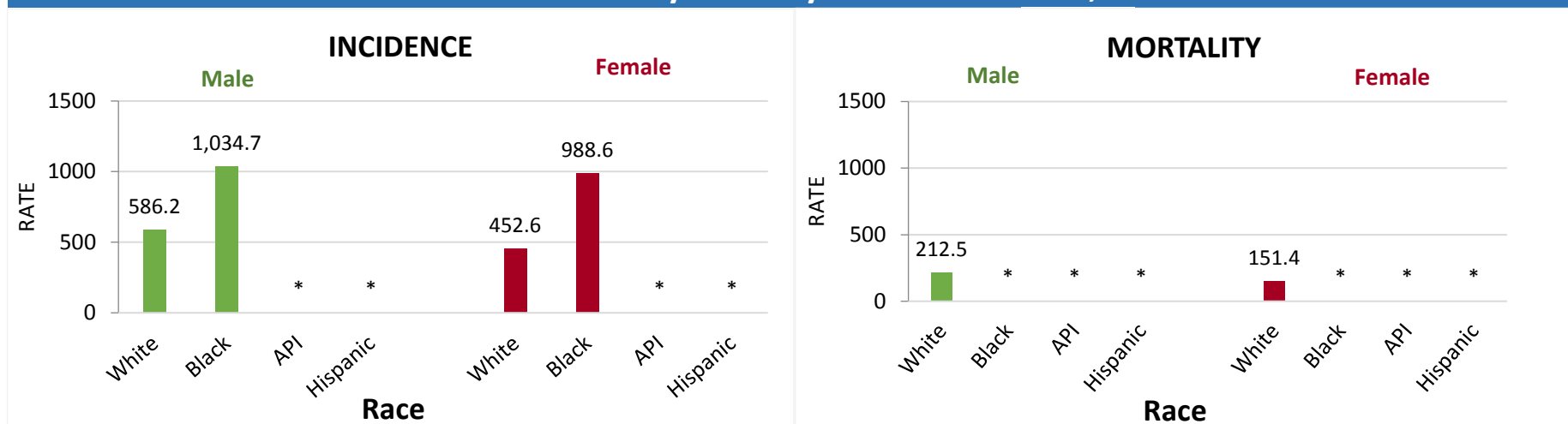
Incidence: 465 new cases of all cancer cases

Mortality: 159 deaths from cancer

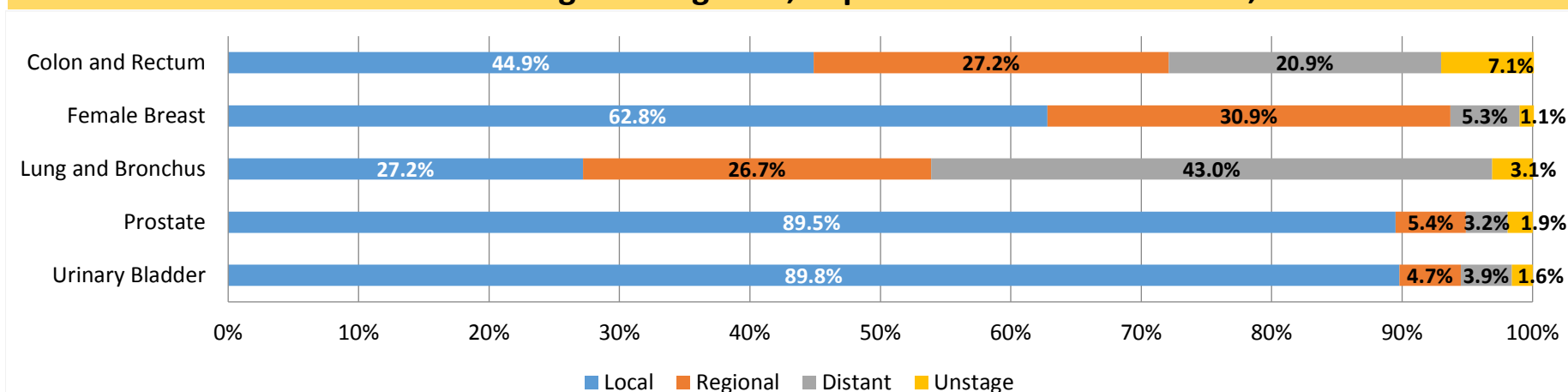
Top 5 Incidence and Morality Cancer Rates, 2008-2012



Incidence and Mortality Rates by Race and Gender, 2008-2012



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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API = Asian or Pacific Islander



Maryland Department of
Health and Mental Hygiene

Anne Arundel County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

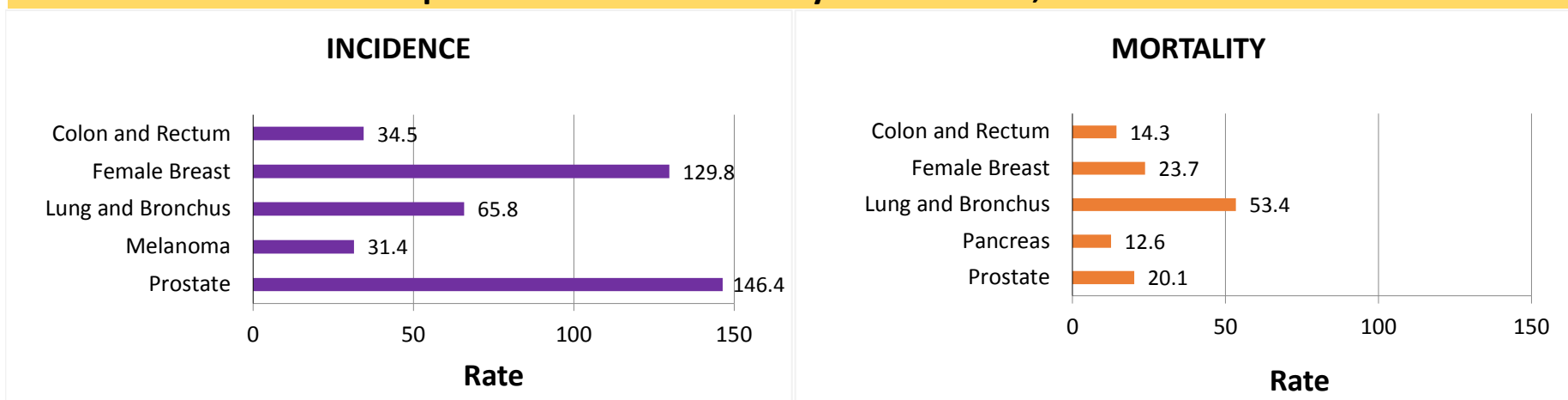
The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

In 2012, the number of incidence and mortality cases in Anne Arundel County were:

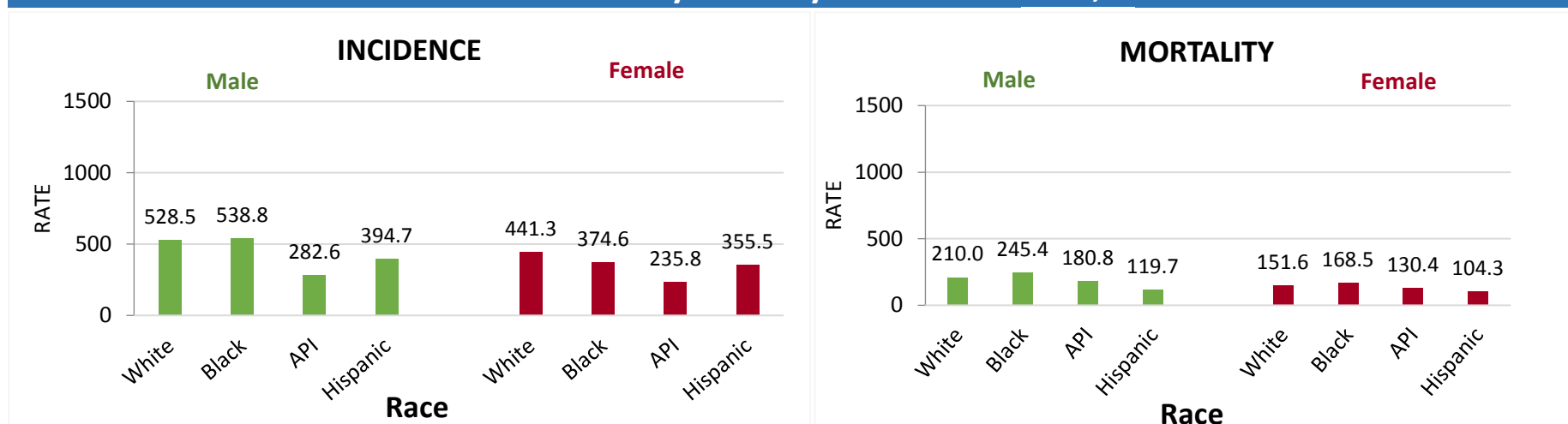
Incidence: 2,703 new cases of all cancer cases

Mortality: 949 deaths from cancer

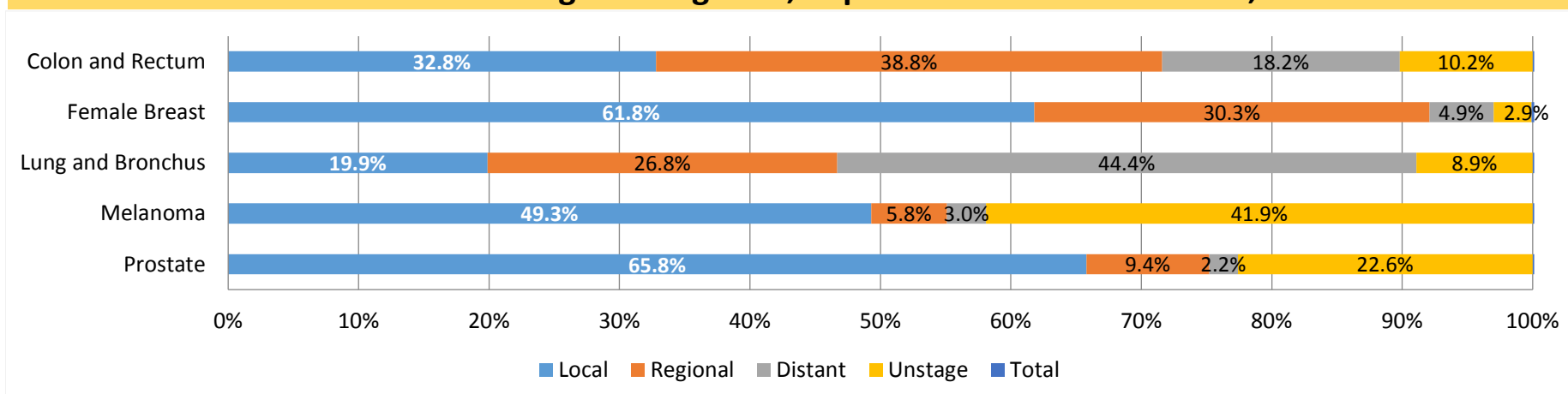
Top 5 Incidence and Morality Cancer Rates, 2008-2012



Incidence and Mortality Rates by Race and Gender, 2008-2012



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Mortality Rates based on death counts of 0-19 are suppressed per DHMH / CCPC Mortality Data Suppression Policy

API = Asian or Pacific Islander



Maryland Department of
Health and Mental Hygiene

Baltimore City



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

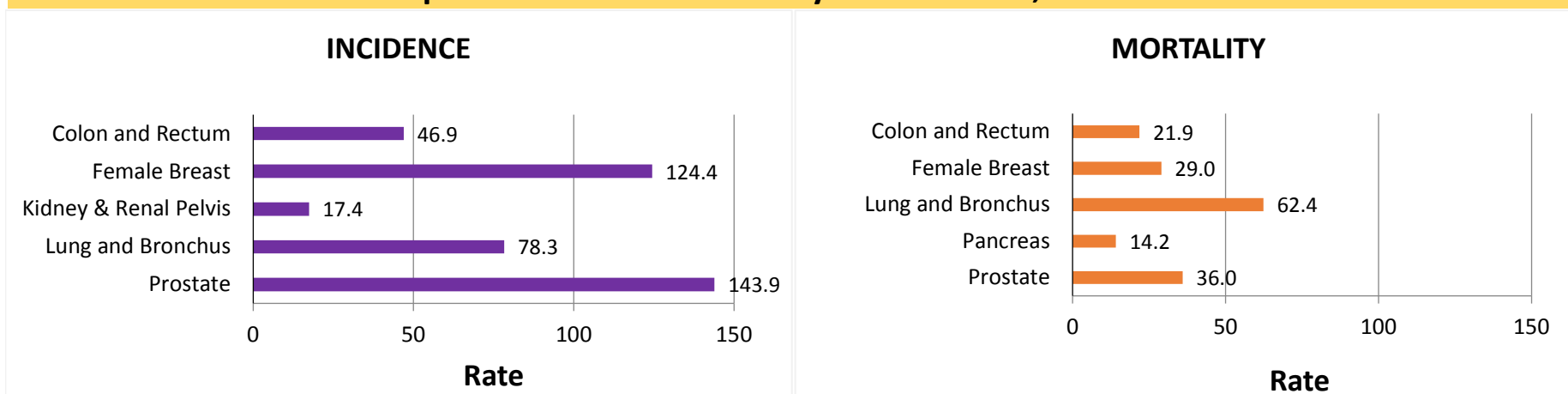
The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

In 2012, the number of incidence and mortality cases in Baltimore City were:

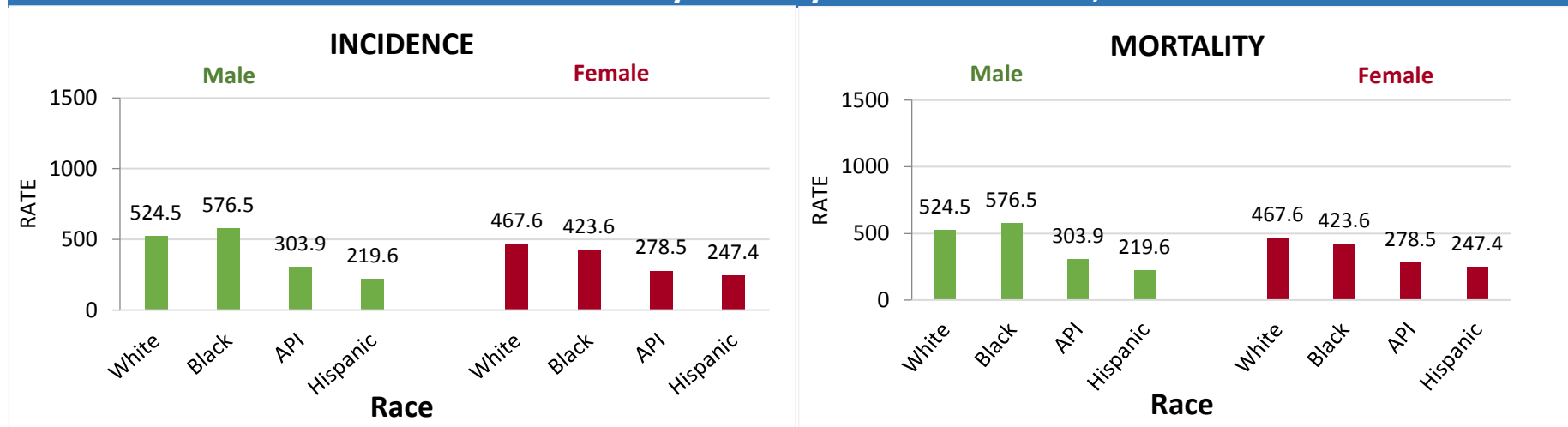
Incidence: 3,091 new cases of all cancer cases

Mortality: 1,383 deaths from cancer

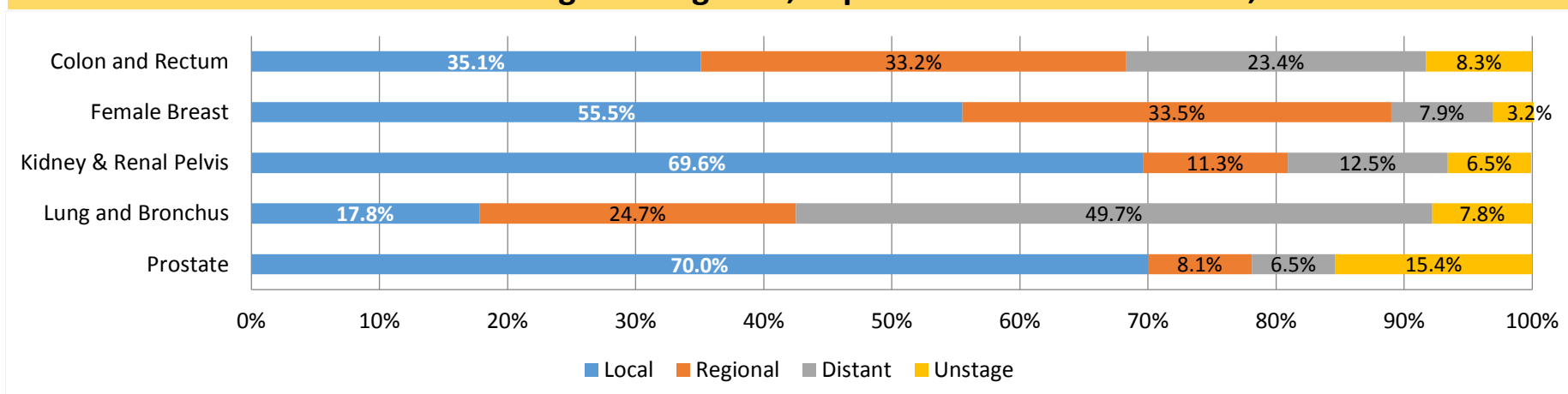
Top 5 Incidence and Morality Cancer Rates, 2008-2012



Incidence and Mortality Rates by Race and Gender, 2008-2012



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Maryland Department of
Health and Mental Hygiene

Baltimore County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

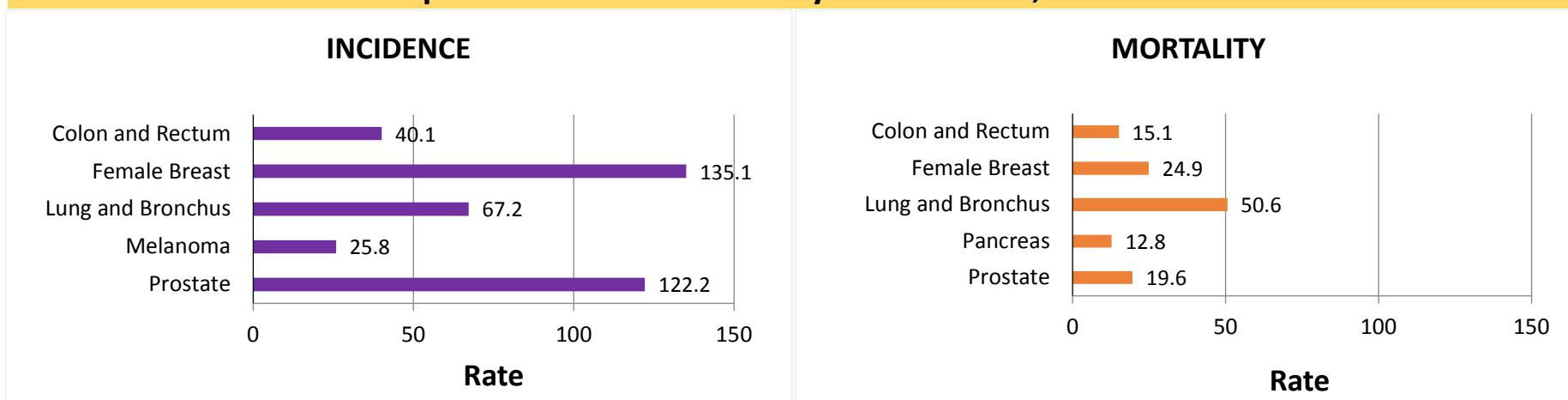
The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

In 2012, the number of incidence and mortality cases in Baltimore County were:

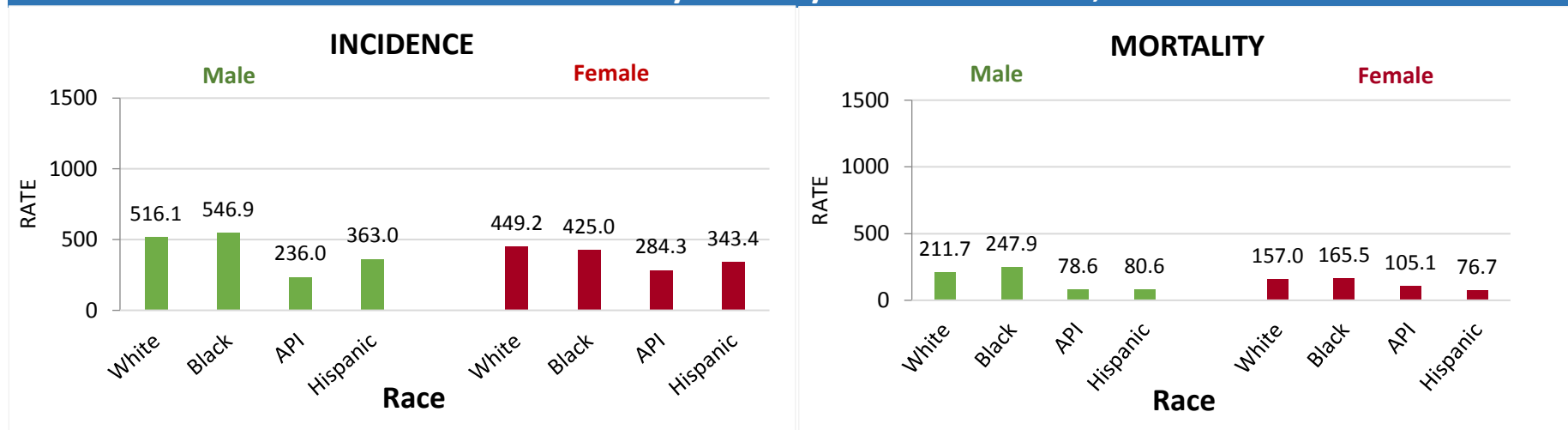
Incidence: 4,579 new cases of all cancer cases

Mortality: 1,741 deaths from cancer

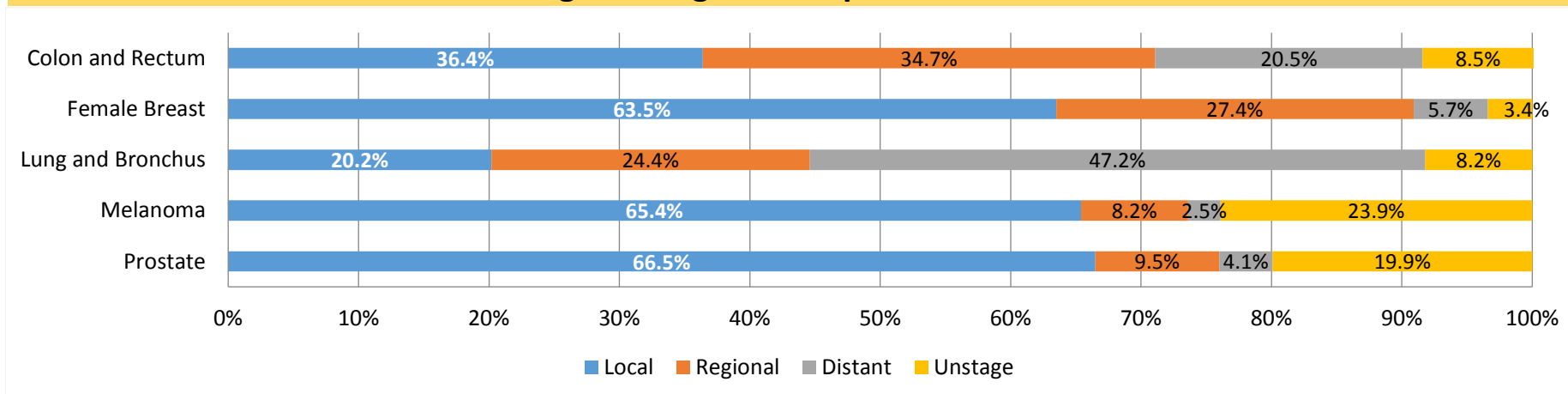
Top 5 Incidence and Morality Cancer Rates, 2008-2012



Incidence and Mortality Rates by Race and Gender, 2008-2012



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Mortality Rates based on death counts of 0-19 are suppressed per DHMH / CCPC Mortality Data Suppression Policy

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Maryland Department of
Health and Mental Hygiene

Calvert County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

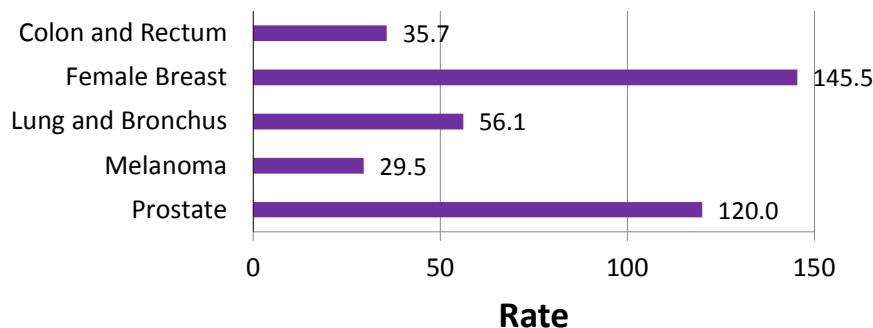
In 2012, the number of incidence and mortality cases in Calvert County were:

Incidence: 415 new cases of all cancer cases

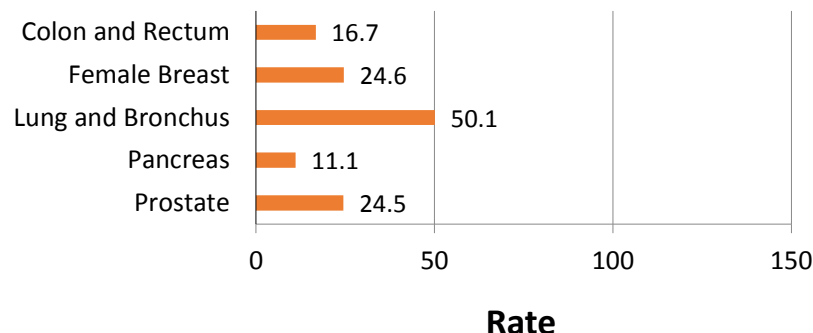
Mortality: 166 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

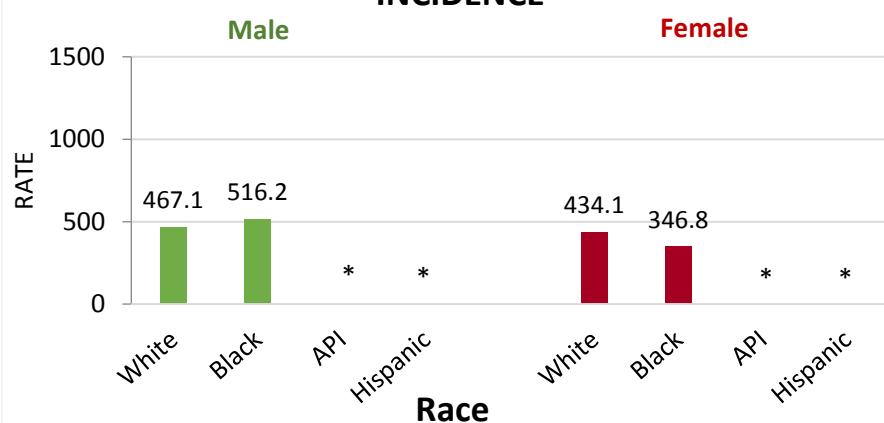


MORTALITY

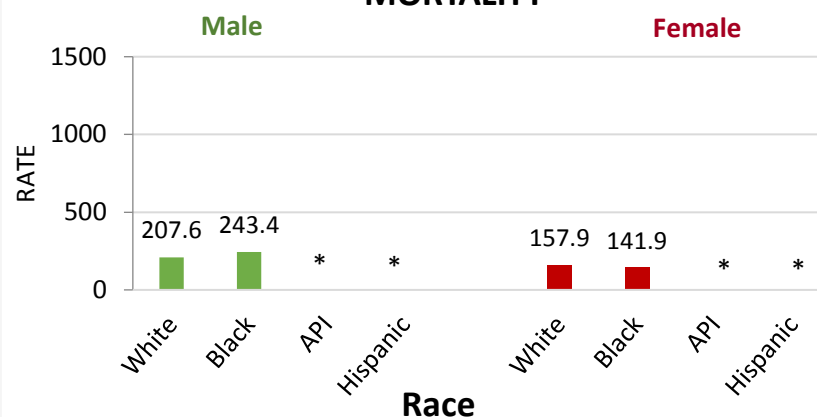


Incidence and Mortality Rates by Race and Gender, 2008-2012

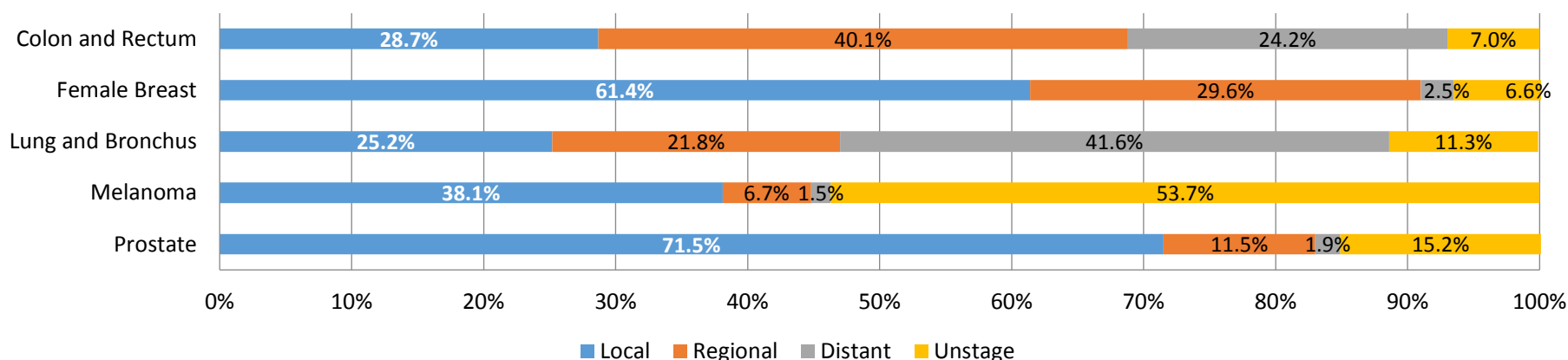
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

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Maryland Department of
Health and Mental Hygiene

Caroline County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

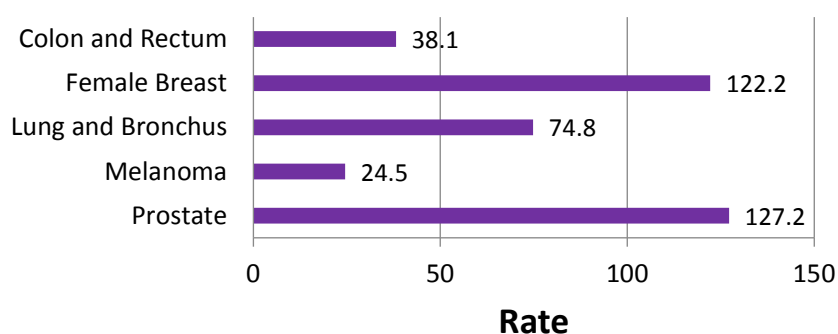
In 2012, the number of incidence and mortality cases in Caroline County were:

Incidence: 193 new cases of all cancer cases

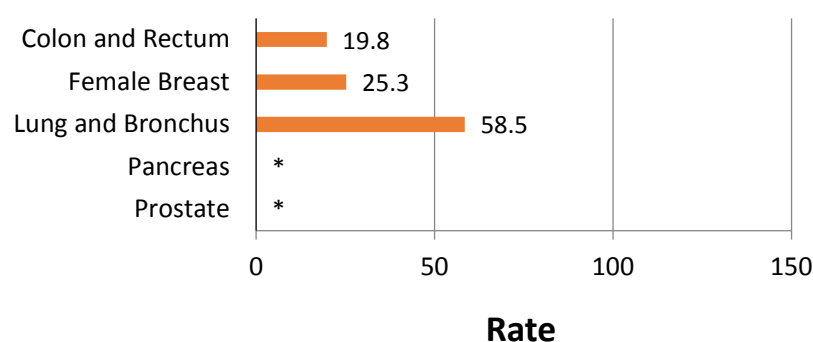
Mortality: 80 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

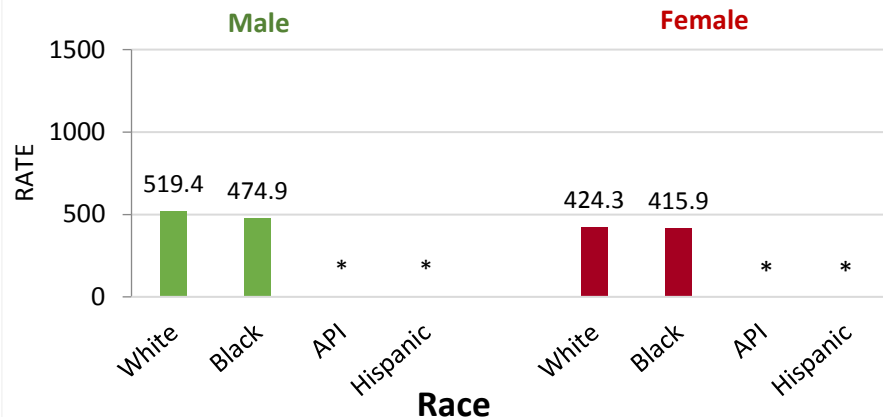


MORTALITY

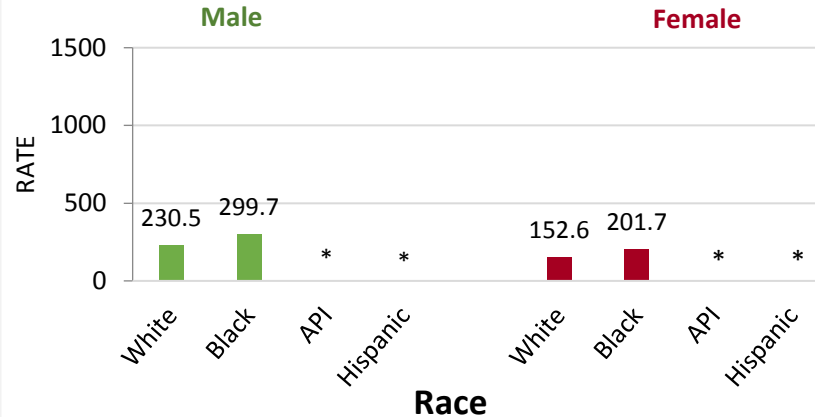


Incidence and Mortality Rates by Race and Gender, 2008-2012

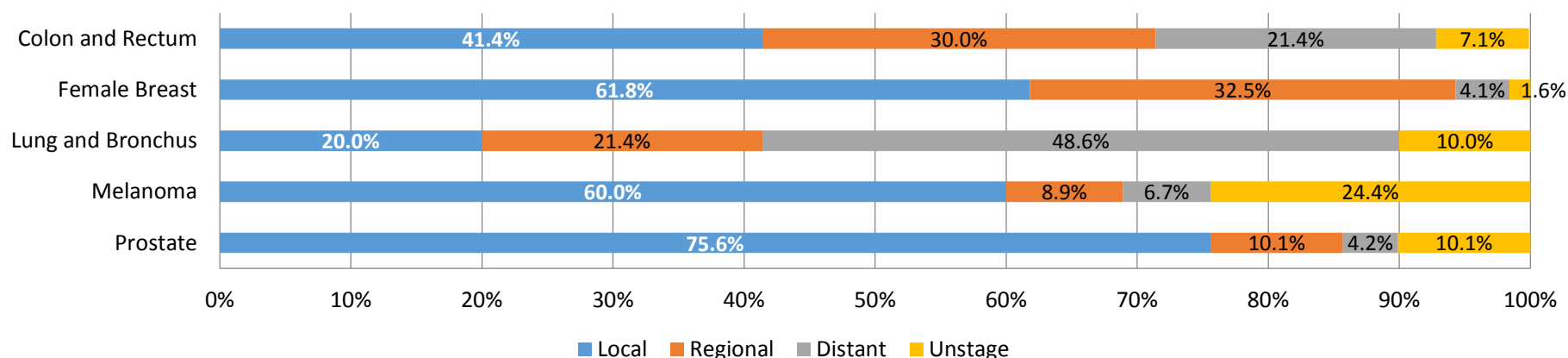
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Maryland Department of
Health and Mental Hygiene

Carroll County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

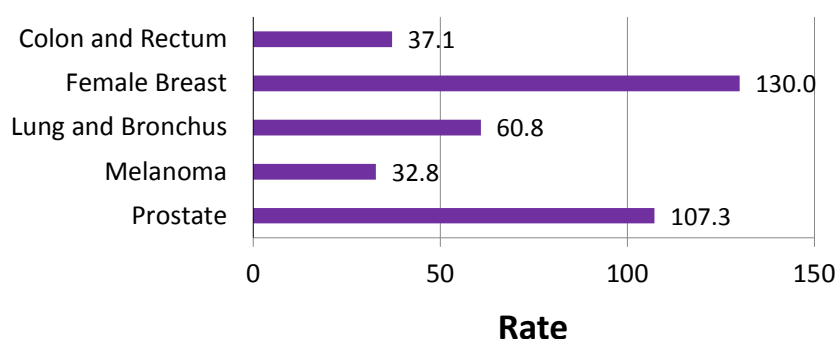
In 2012, the number of incidence and mortality cases in Carroll County were:

Incidence: 936 new cases of all cancer cases

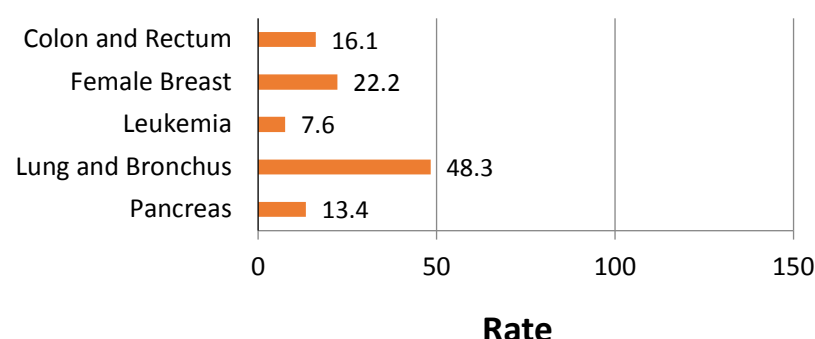
Mortality: 333 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

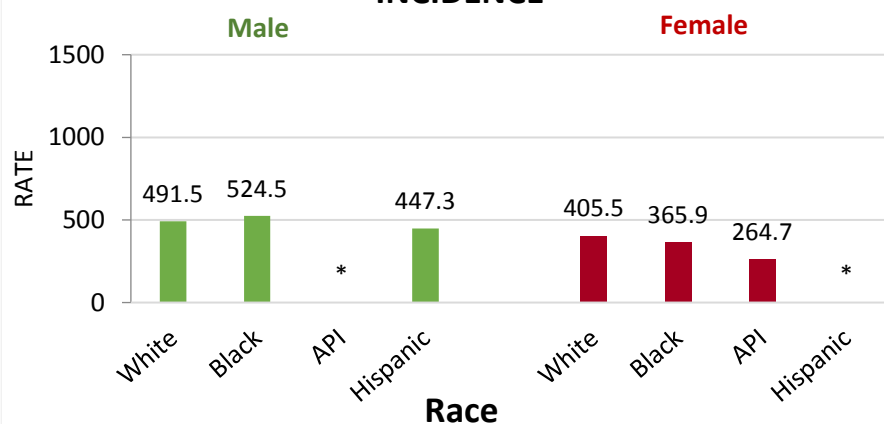


MORTALITY

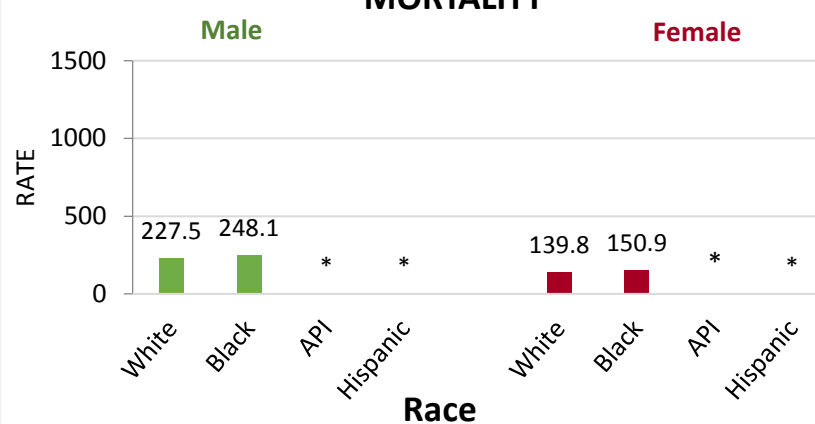


Incidence and Mortality Rates by Race and Gender, 2008-2012

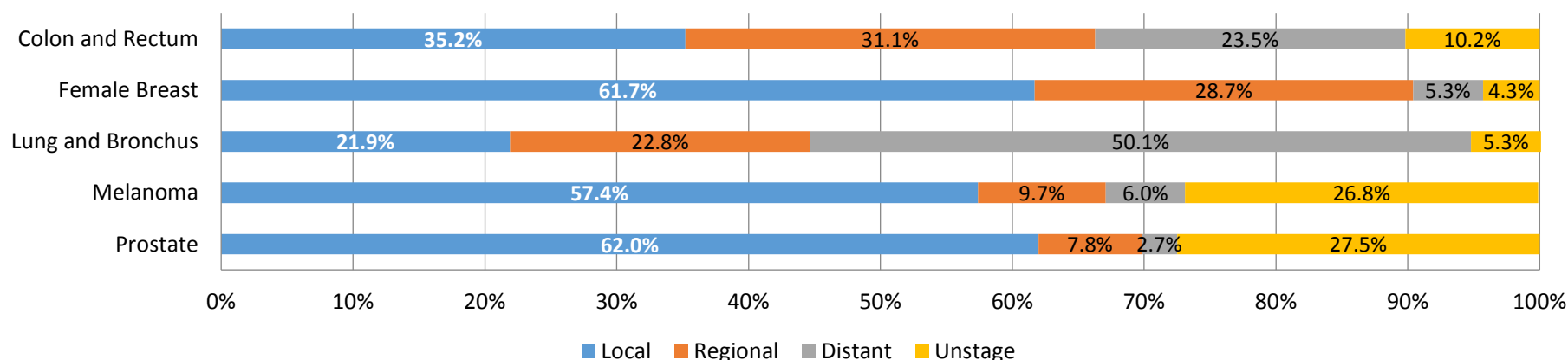
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Maryland Department of
Health and Mental Hygiene

Cecil County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

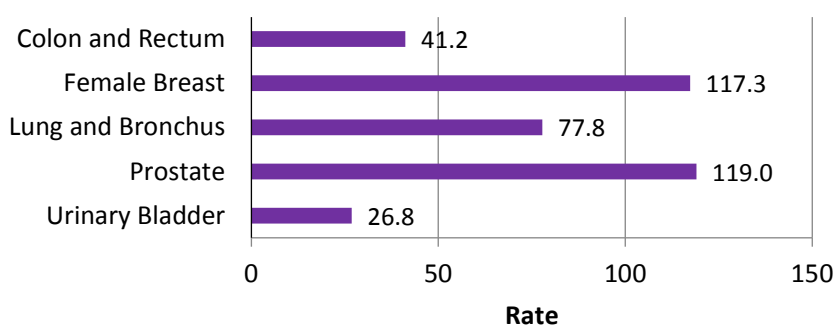
In 2012, the number of incidence and mortality cases in Cecil County were:

Incidence: 556 new cases of all cancer cases

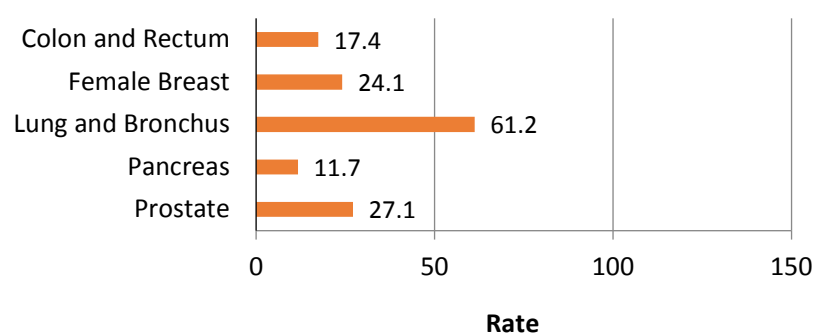
Mortality: 209 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

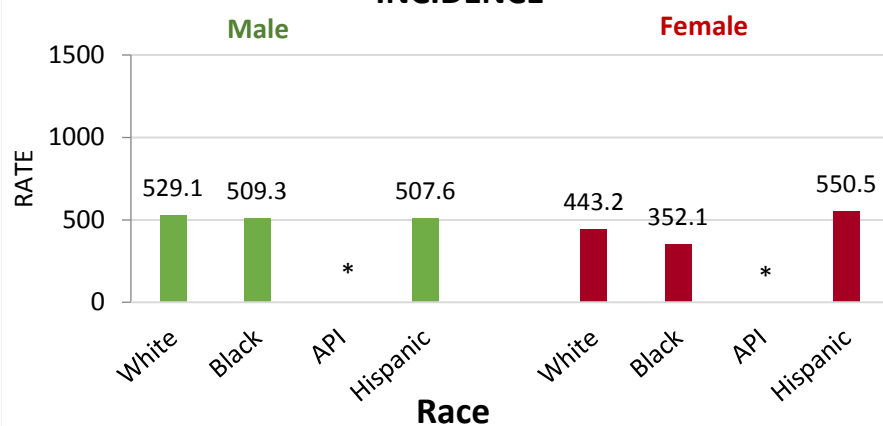


MORTALITY

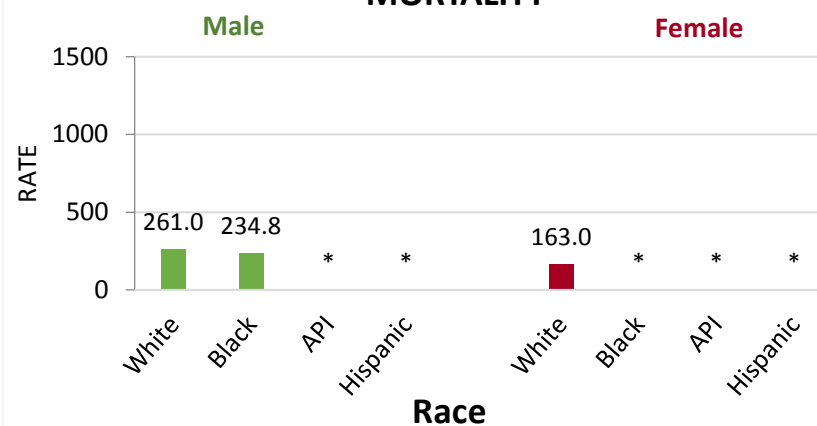


Incidence and Mortality Rates by Race and Gender, 2008-2012

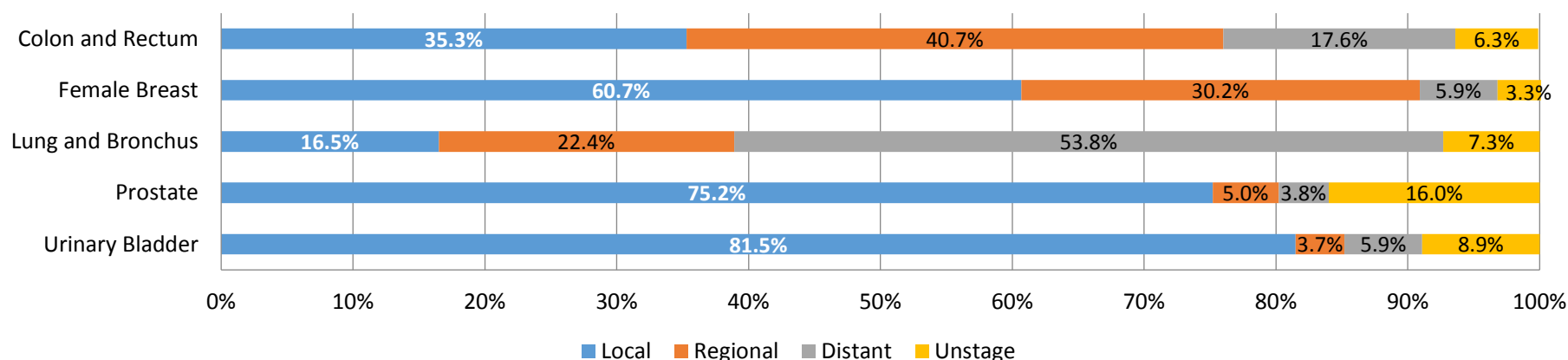
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Mortality Rates based on death counts of 0-19 are suppressed per DHMH / CCPC Mortality Data Suppression Policy

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Maryland Department of
Health and Mental Hygiene

Charles County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

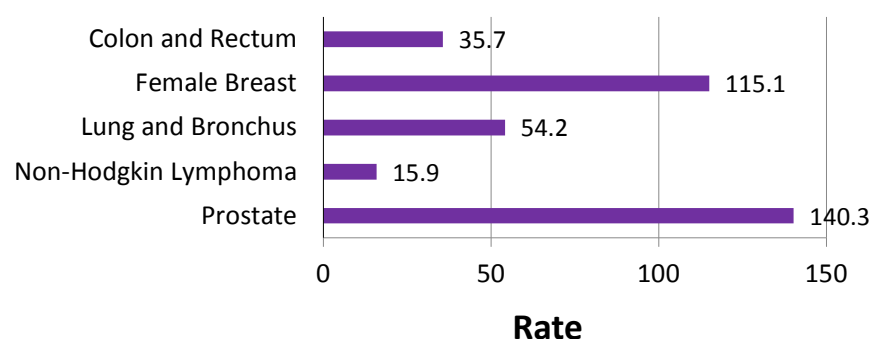
In 2012, the number of incidence and mortality cases in Charles County were:

Incidence: 587 new cases of all cancer cases

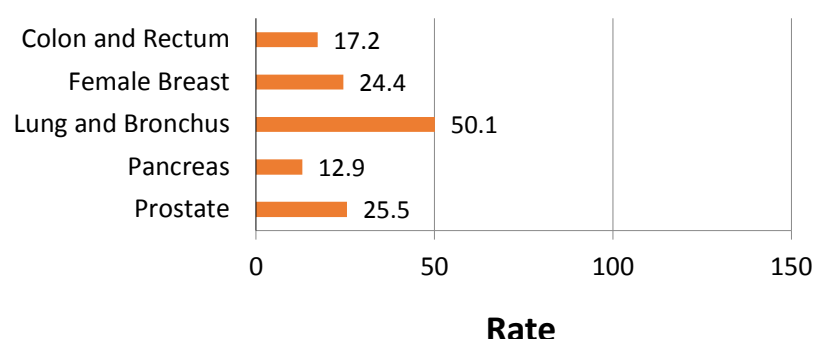
Mortality: 259 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

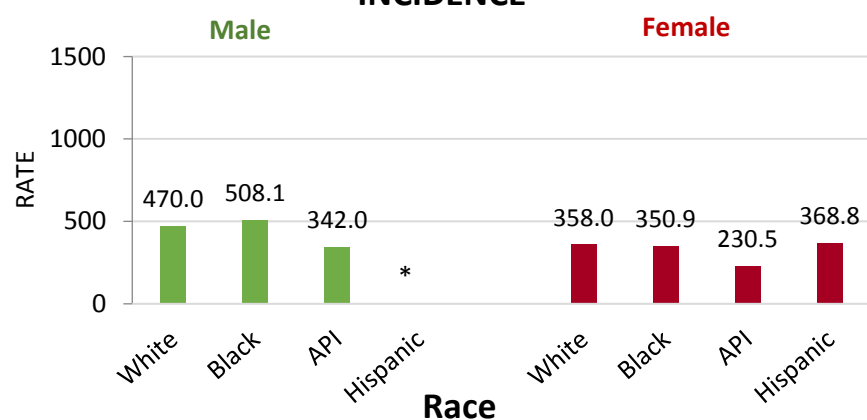


MORTALITY

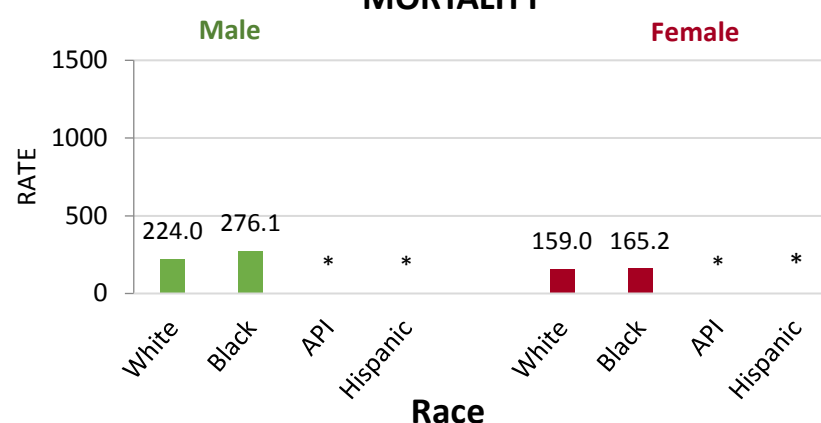


Incidence and Mortality Rates by Race and Gender, 2008-2012

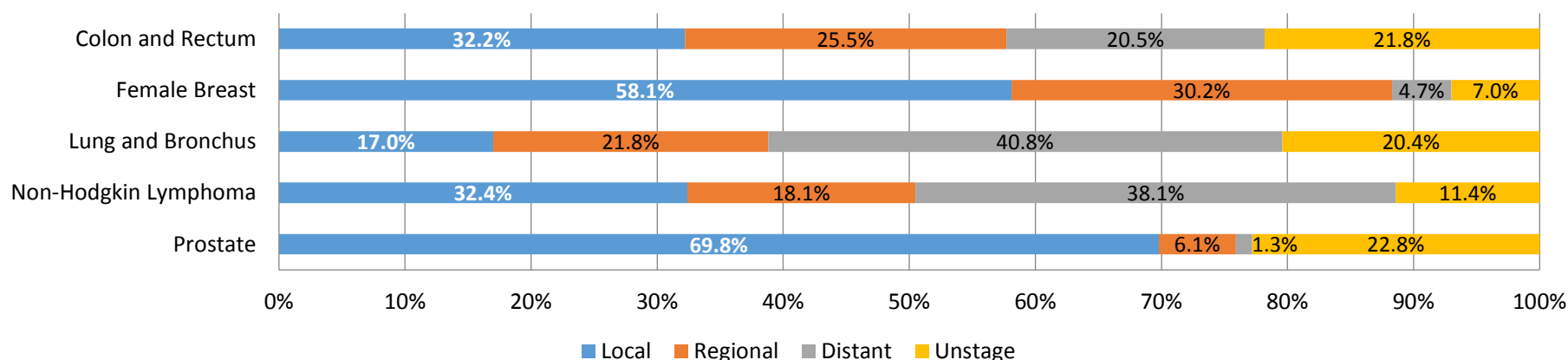
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Maryland Department of
Health and Mental Hygiene

Dorchester County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

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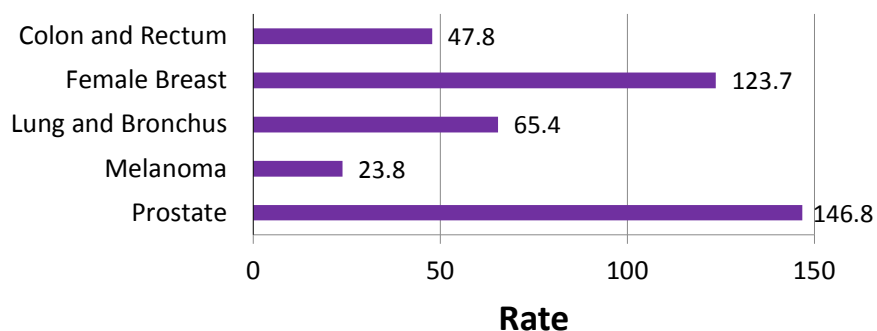
In 2012, the number of incidence and mortality cases in Dorchester County were:

Incidence: 225 new cases of all cancer cases

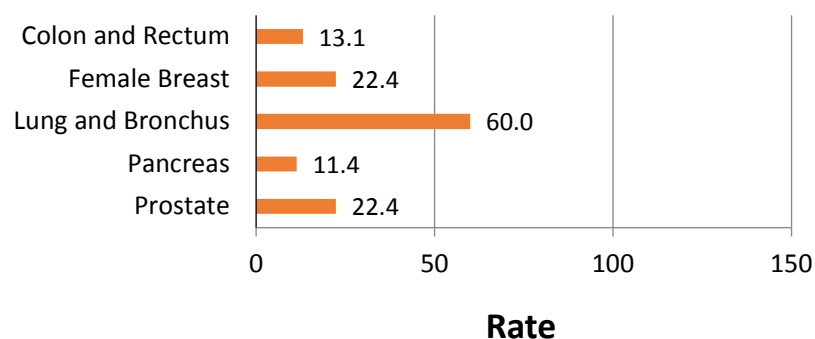
Mortality: 91 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

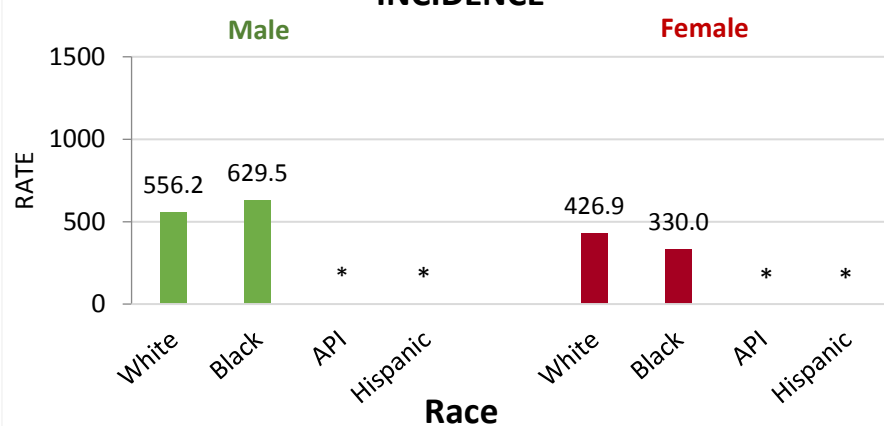


MORTALITY

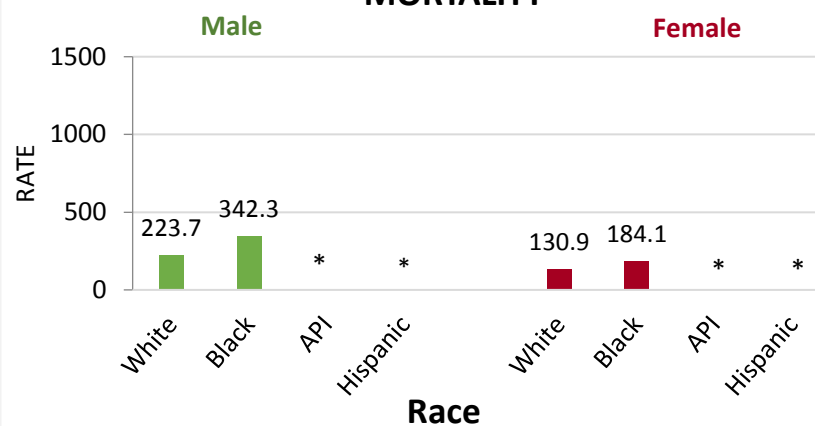


Incidence and Mortality Rates by Race and Gender, 2008-2012

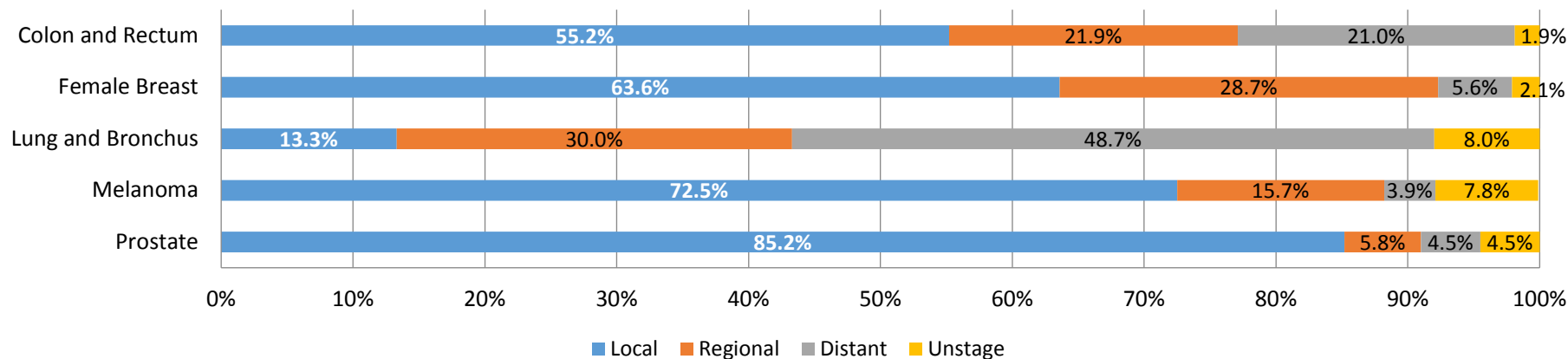
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Maryland Department of
Health and Mental Hygiene

Frederick County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

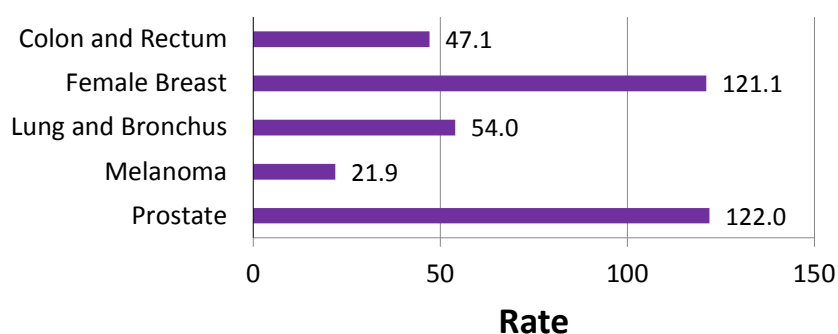
In 2012, the number of incidence and mortality cases in Frederick County were:

Incidence: 1,090 new cases of all cancer cases

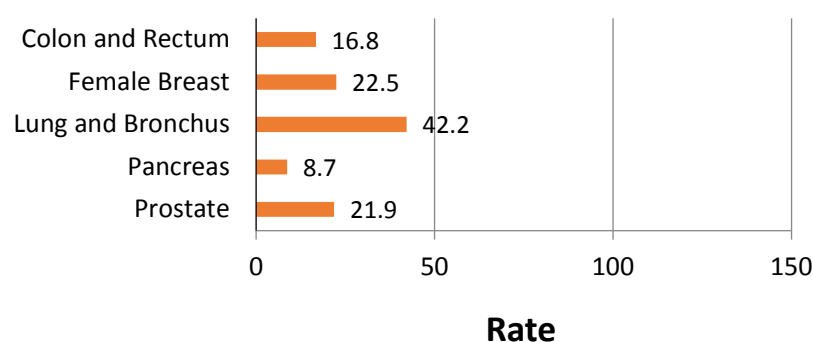
Mortality: 393 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

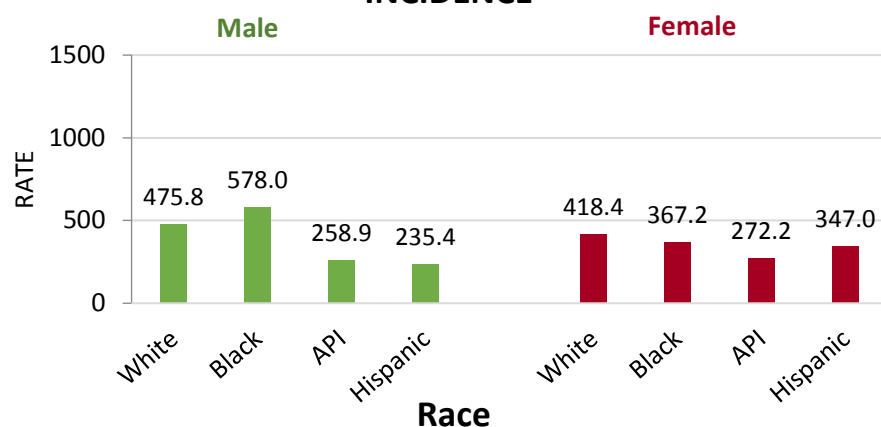


MORTALITY

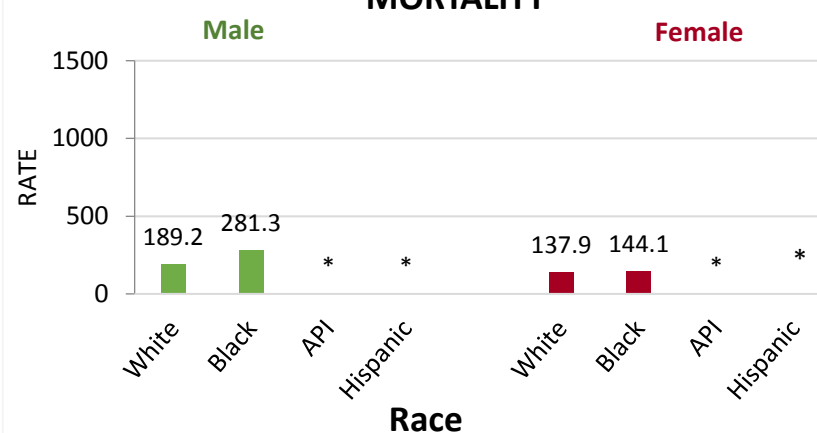


Incidence and Mortality Rates by Race and Gender, 2008-2012

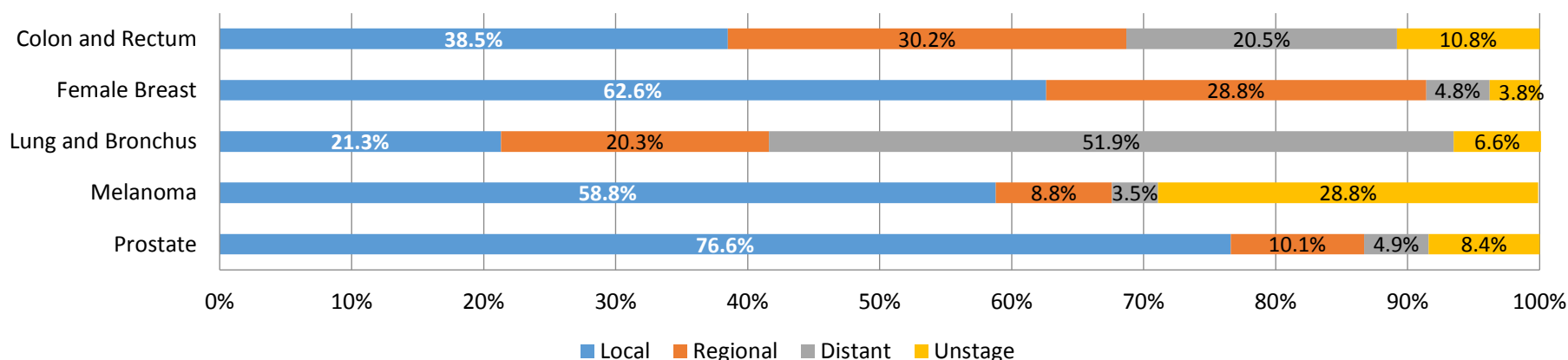
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Mortality Rates based on death counts of 0-19 are suppressed per DHMH / CCPC Mortality Data Suppression Policy

API = Asian or Pacific Islander



Maryland Department of
Health and Mental Hygiene

Garrett County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

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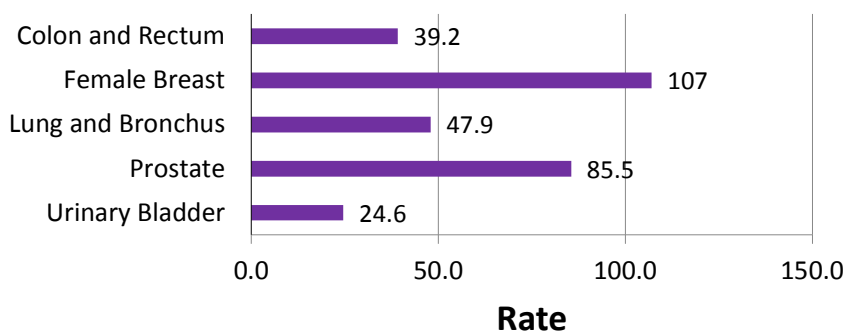
In 2012, the number of incidence and mortality cases in Garrett County were:

Incidence: 166 new cases of all cancer cases

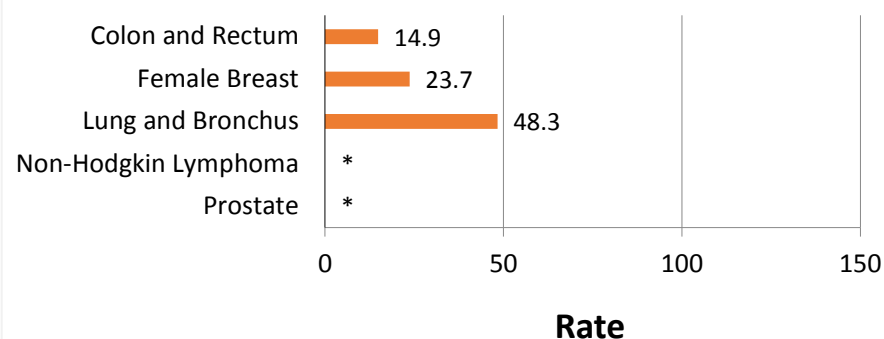
Mortality: 66 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

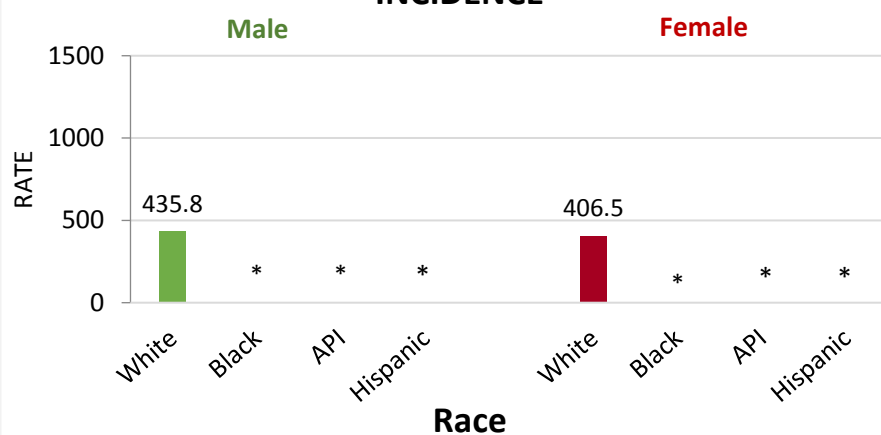


MORTALITY

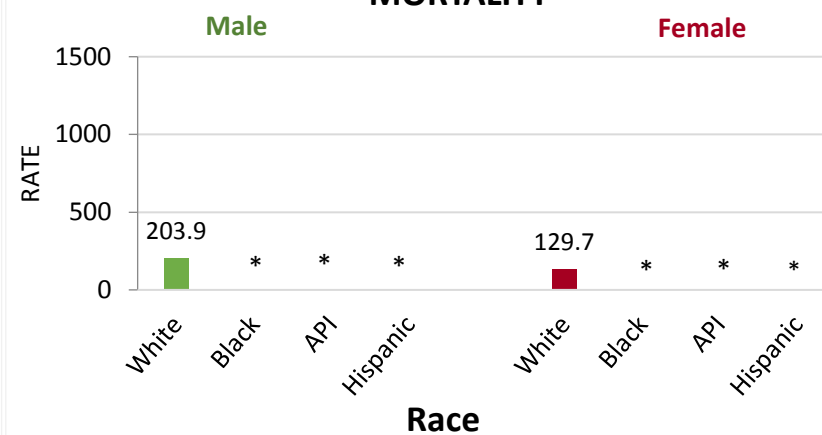


Incidence and Mortality Rates by Race and Gender, 2008-2012

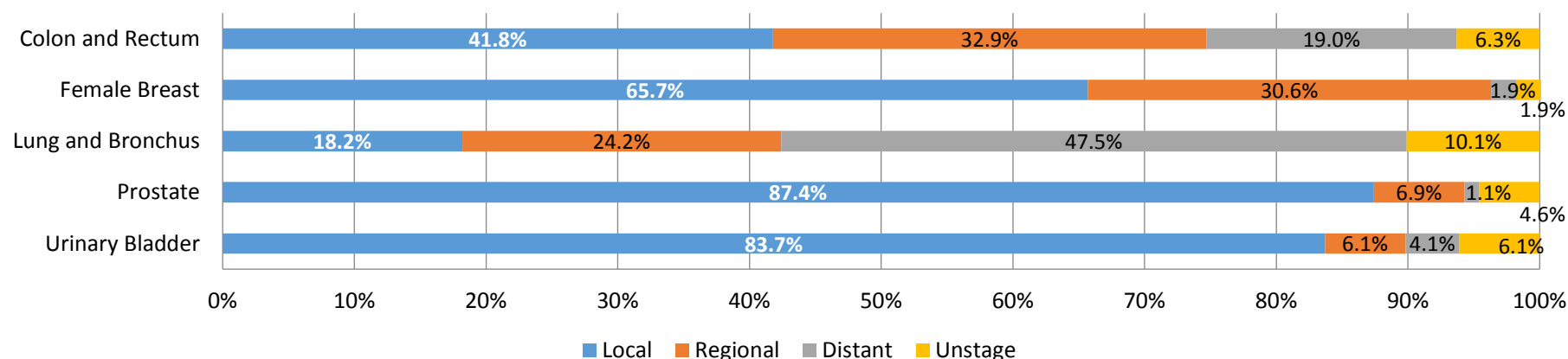
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Maryland Department of
Health and Mental Hygiene

Harford County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

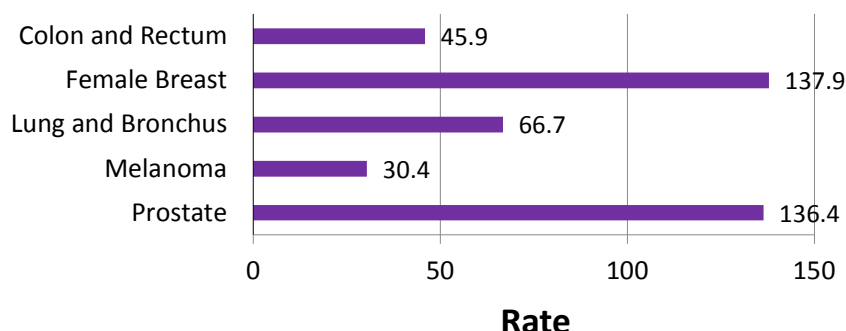
In 2012, the number of incidence and mortality cases in Harford County were:

Incidence: 1,325 new cases of all cancer cases

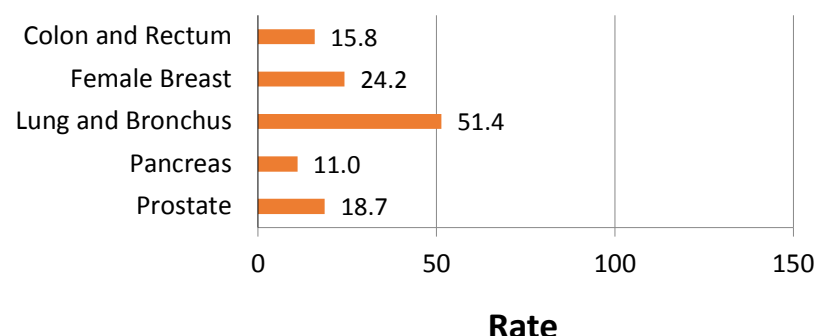
Mortality: 491 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

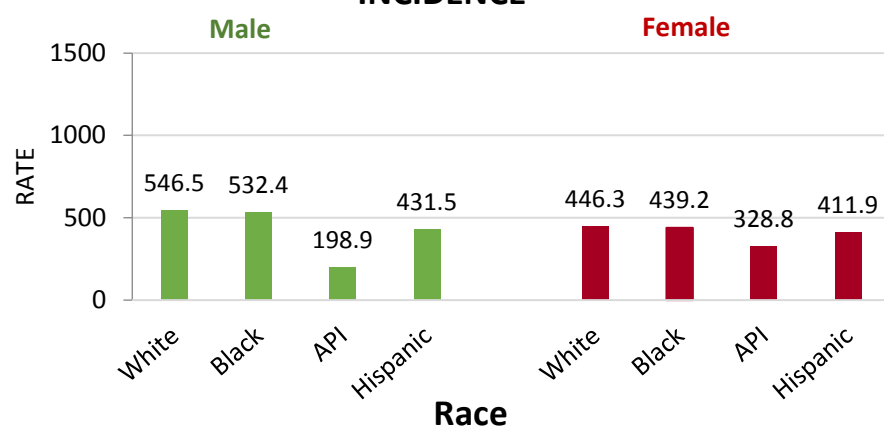


MORTALITY

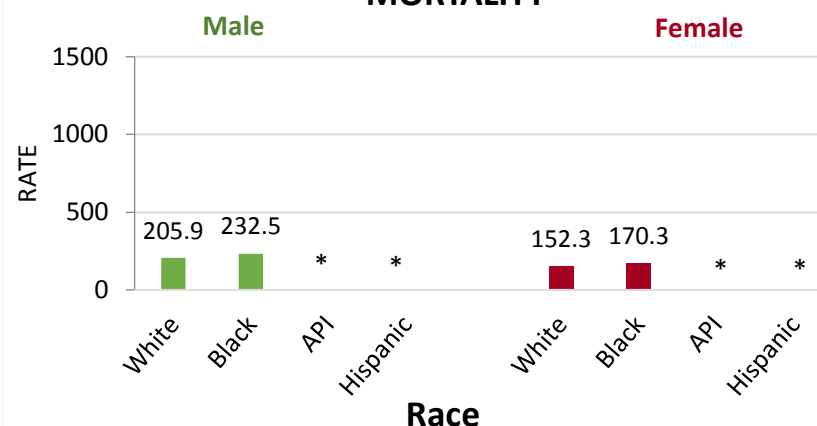


Incidence and Mortality Rates by Race and Gender, 2008-2012

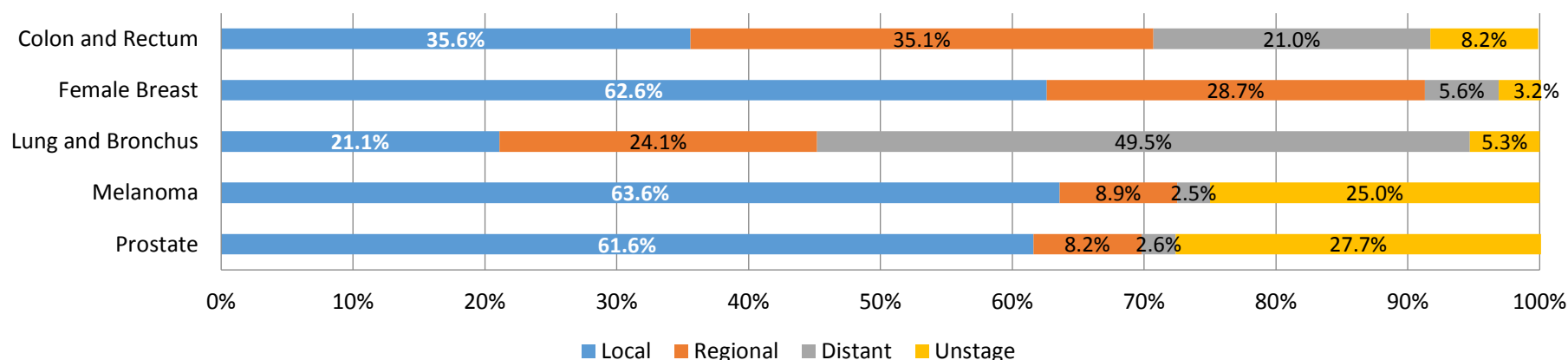
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

Incidence Rates based on case counts of 1-15 are suppressed per DHMH / MCR Data Use Policy and Procedures

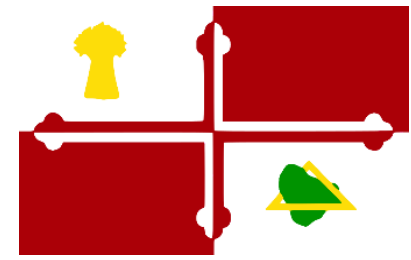
Mortality Rates based on death counts of 0-19 are suppressed per DHMH / CCPC Mortality Data Suppression Policy

API = Asian or Pacific Islander



Maryland Department of
Health and Mental Hygiene

Howard County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

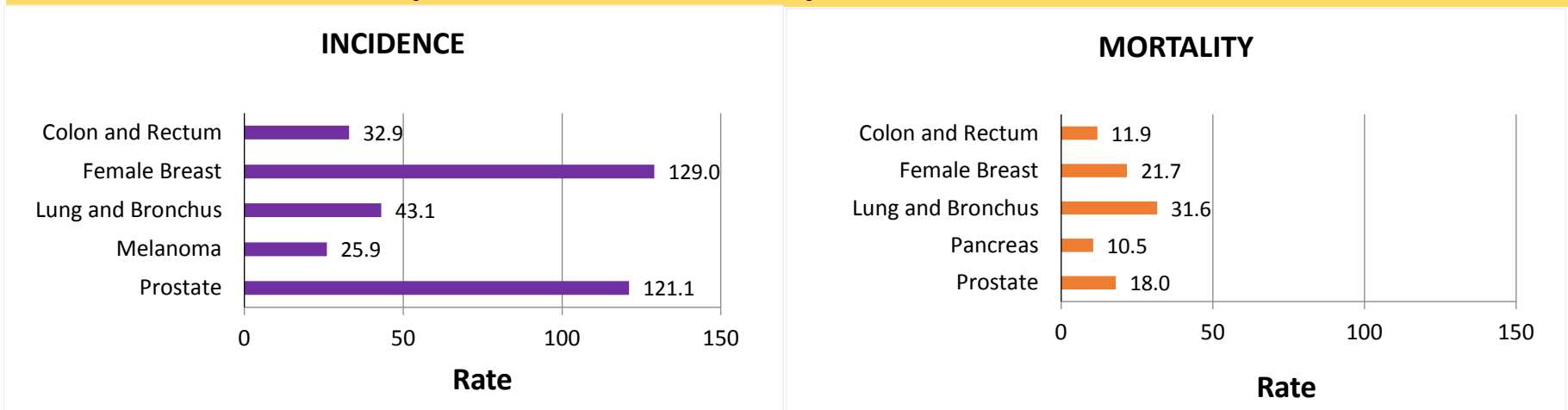
The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

In 2012, the number of incidence and mortality cases in Howard County were:

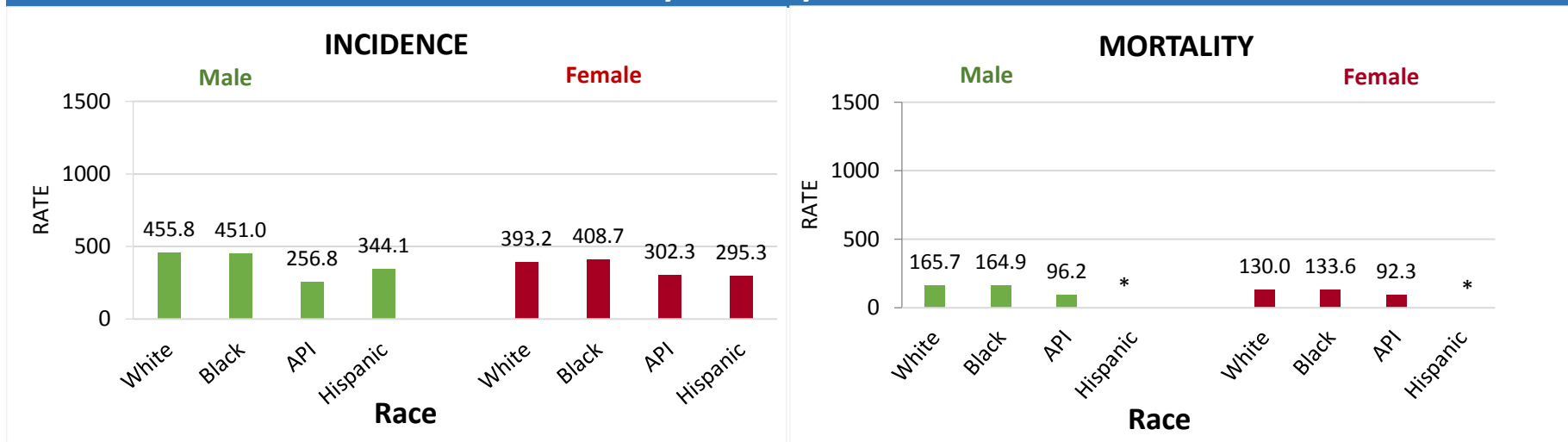
Incidence: 1,216 new cases of all cancer cases

Mortality: 362 deaths from cancer

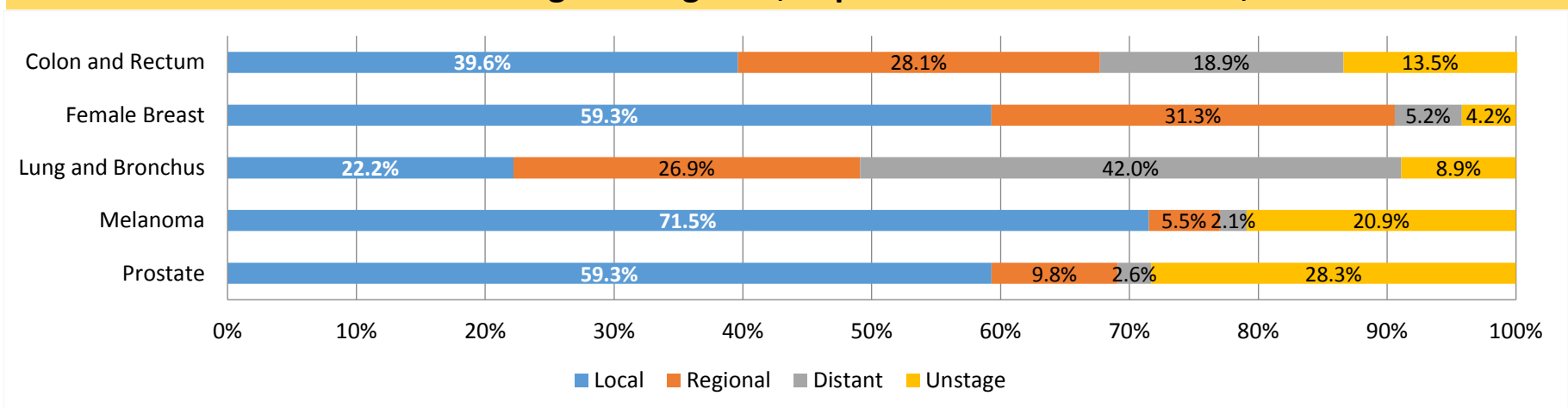
Top 5 Incidence and Morality Cancer Rates, 2008-2012



Incidence and Mortality Rates by Race and Gender, 2008-2012



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Maryland Department of
Health and Mental Hygiene

Kent County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

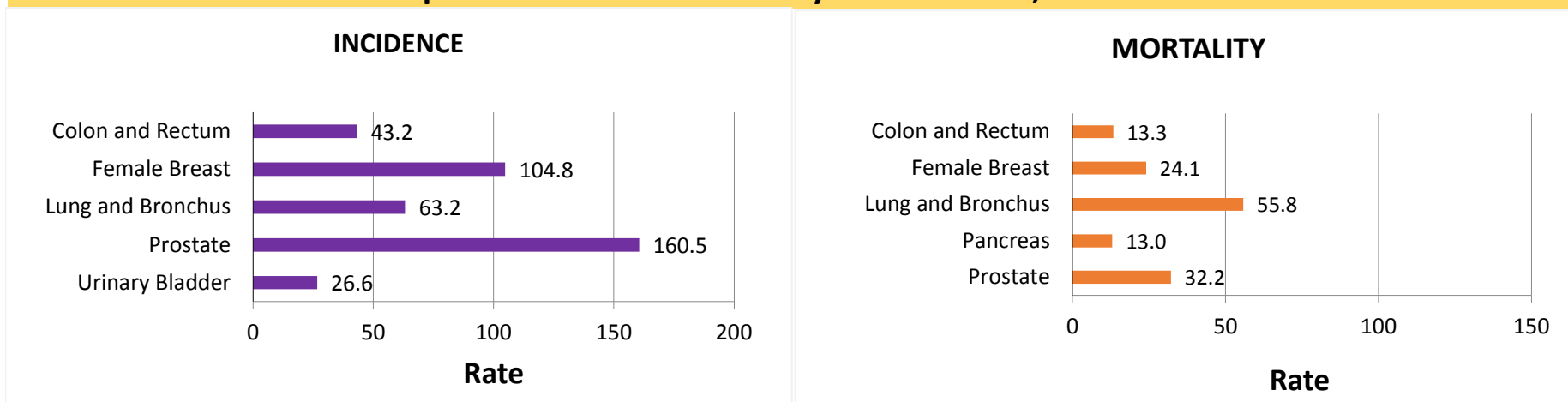
The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

In 2012, the number of incidence and mortality cases in Kent County were:

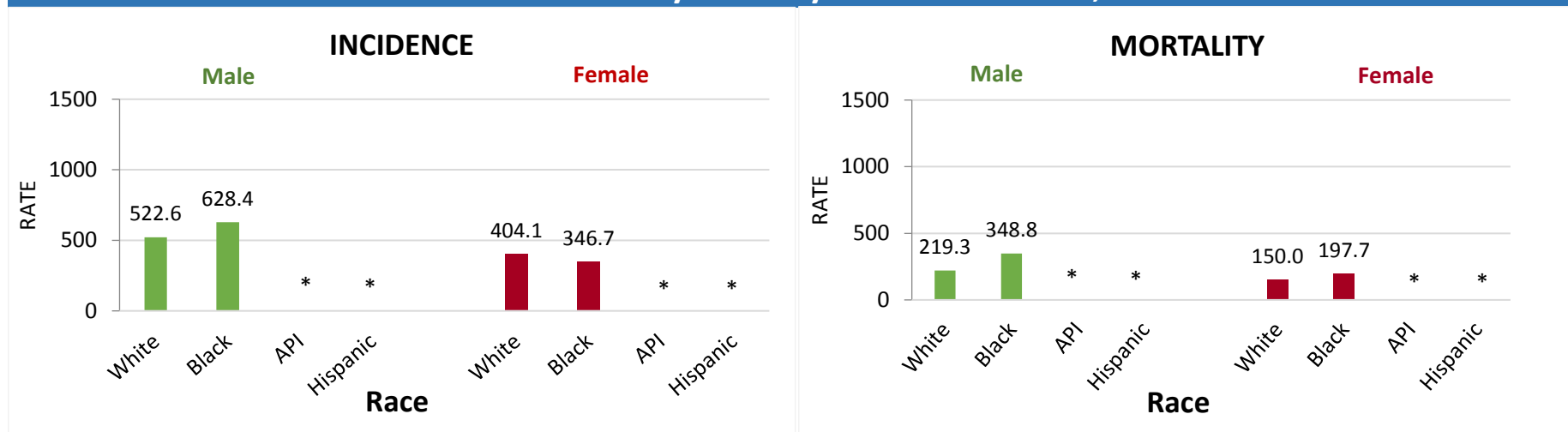
Incidence: 145 new cases of all cancer cases

Mortality: 56 deaths from cancer

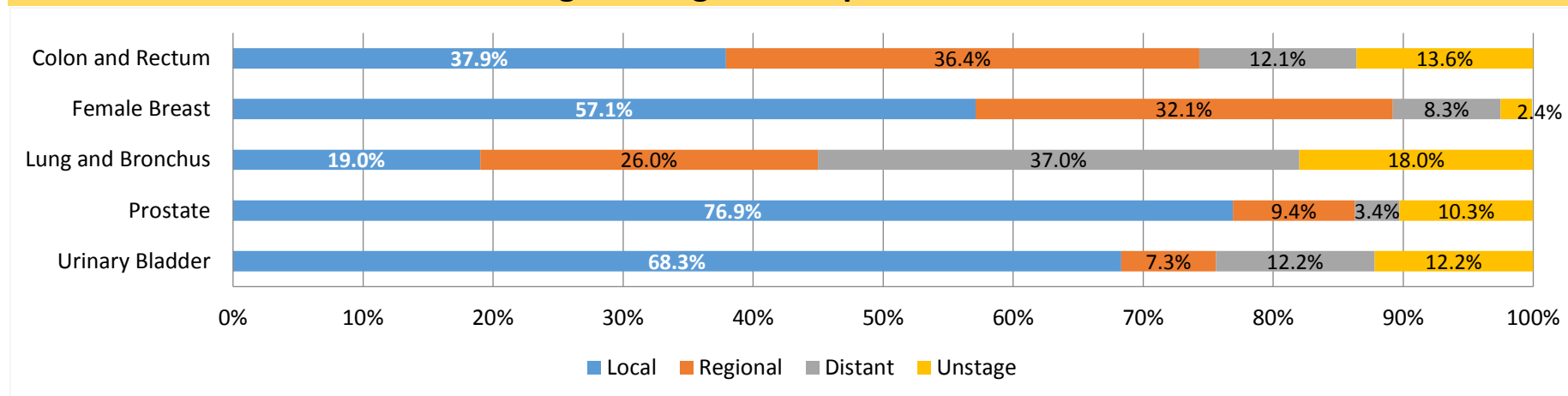
Top 5 Incidence and Morality Cancer Rates, 2008-2012



Incidence and Mortality Rates by Race and Gender, 2008-2012



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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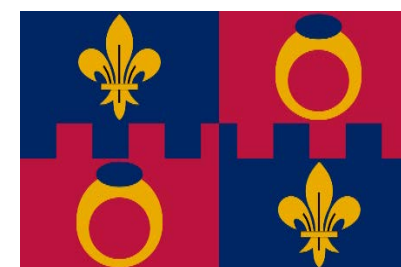
Mortality Rates based on death counts of 0-19 are suppressed per DHMH / CCPC Mortality Data Suppression Policy

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Maryland Department of
Health and Mental Hygiene

Montgomery County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

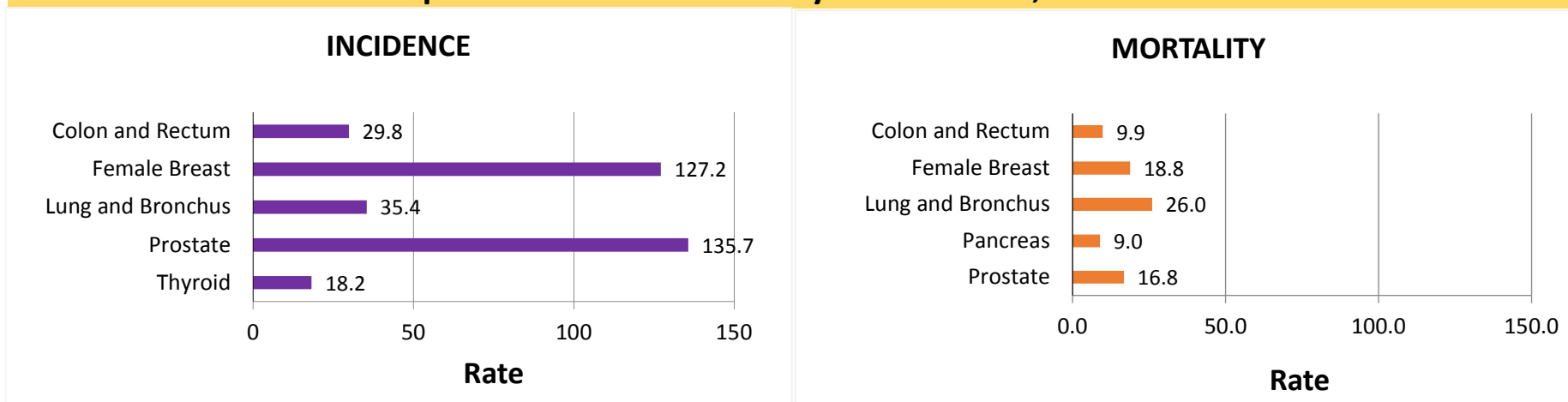
The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

In 2012, the number of incidence and mortality cases in Montgomery County were:

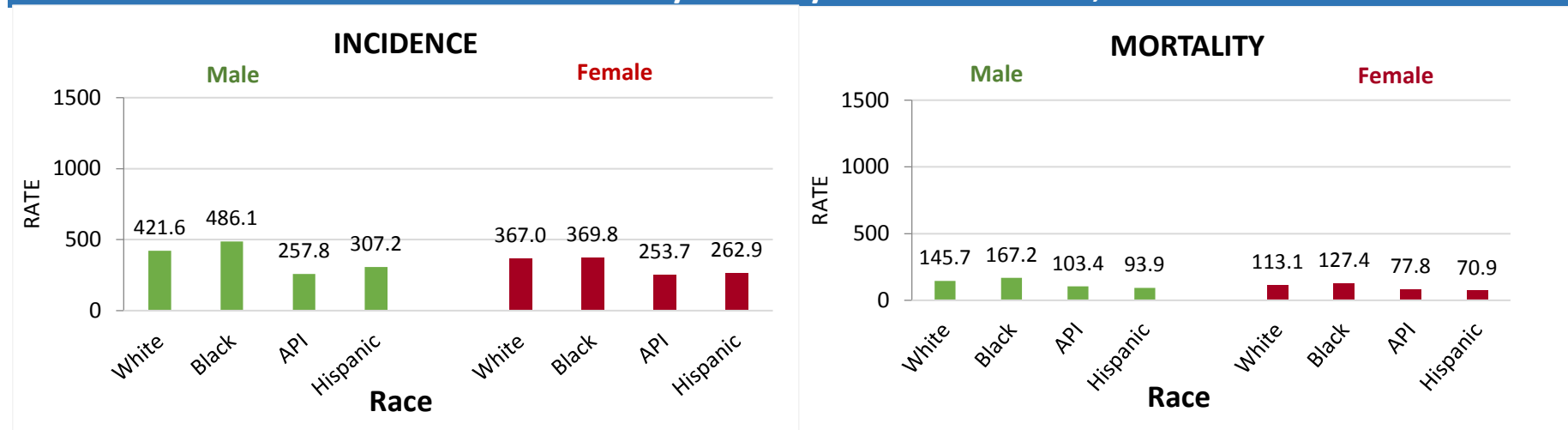
Incidence: 4,055 new cases of all cancer cases

Mortality: 1,348 deaths from cancer

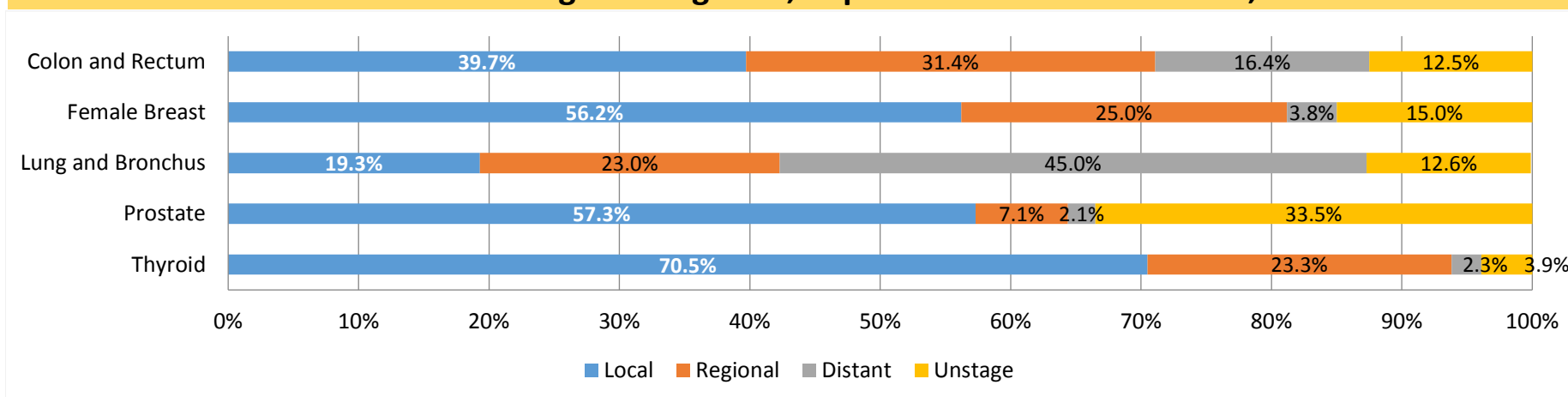
Top 5 Incidence and Morality Cancer Rates, 2008-2012



Incidence and Mortality Rates by Race and Gender, 2008-2012



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Maryland Department of
Health and Mental Hygiene

Prince George's County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

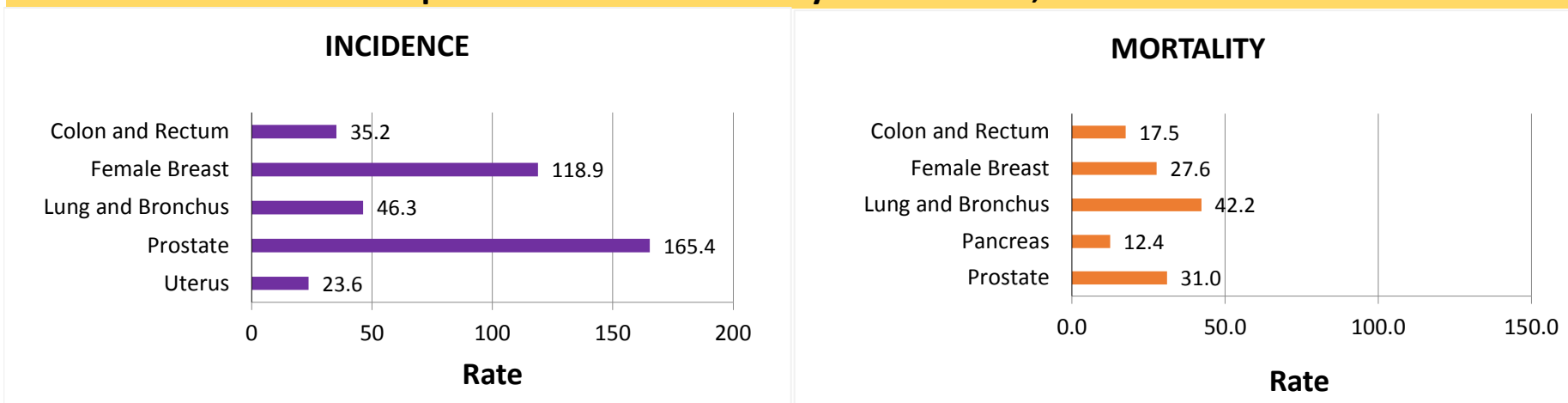
The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

In 2012, the number of incidence and mortality cases in Prince George's County were:

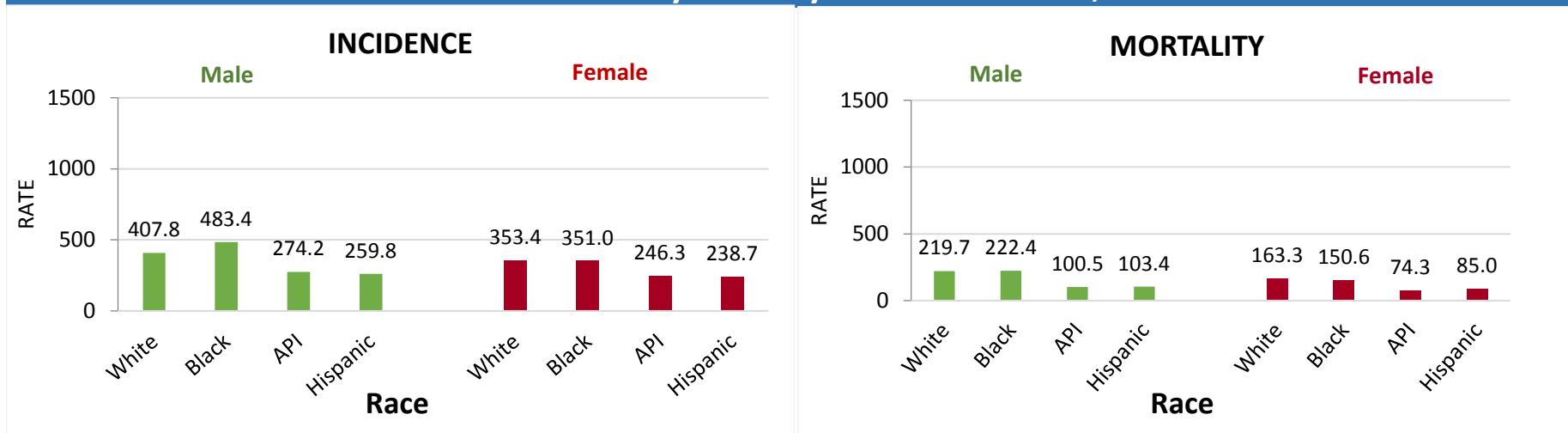
Incidence: 3,202 new cases of all cancer cases

Mortality: 1,313 deaths from cancer

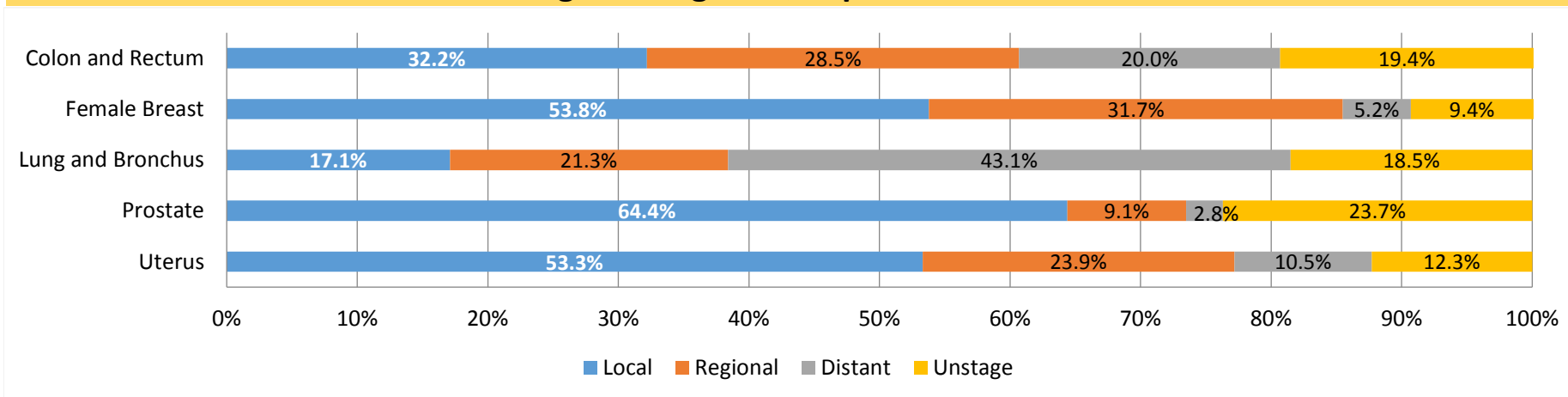
Top 5 Incidence and Morality Cancer Rates, 2008-2012



Incidence and Mortality Rates by Race and Gender, 2008-2012



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Maryland Department of
Health and Mental Hygiene

Queen Anne's County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

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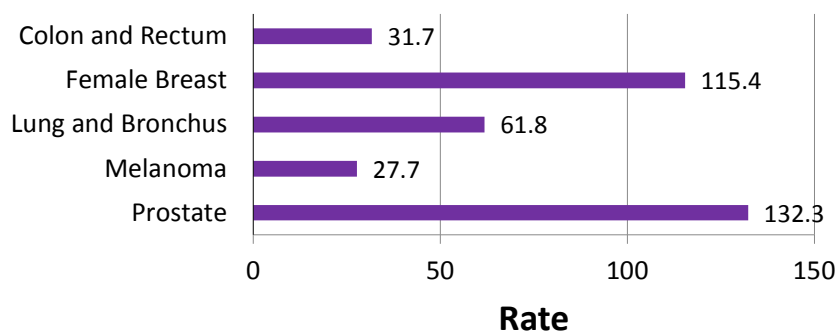
In 2012, the number of incidence and mortality cases in Queen Anne's County were:

Incidence: 242 new cases of all cancer cases

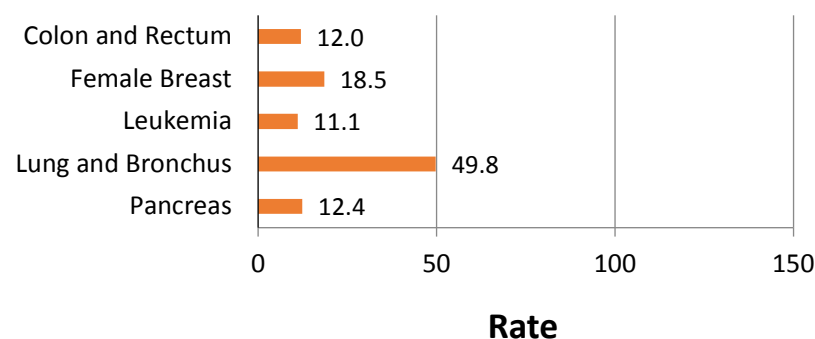
Mortality: 102 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

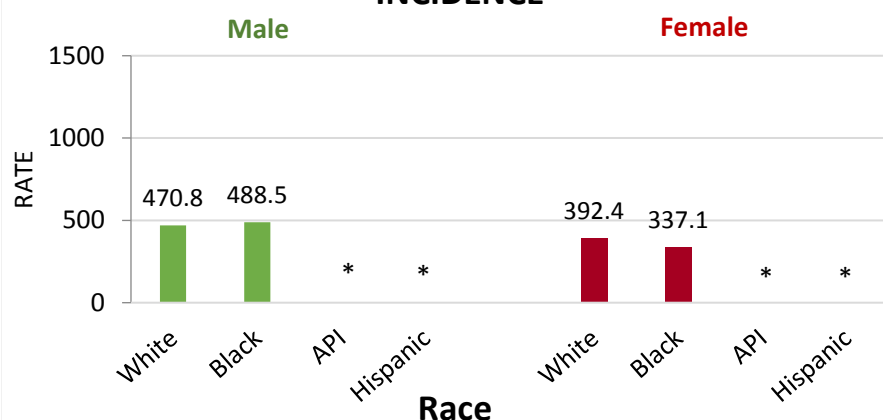


MORTALITY

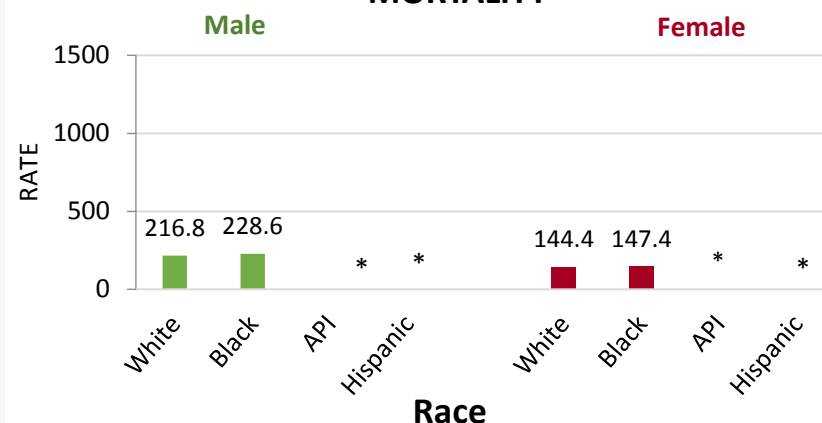


Incidence and Mortality Rates by Race and Gender, 2008-2012

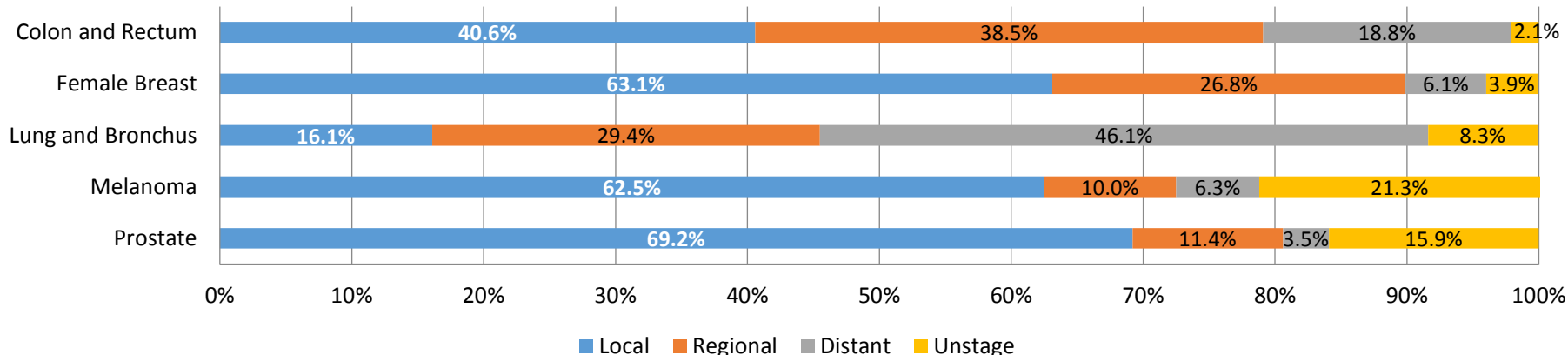
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

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Maryland Department of
Health and Mental Hygiene

Somerset County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

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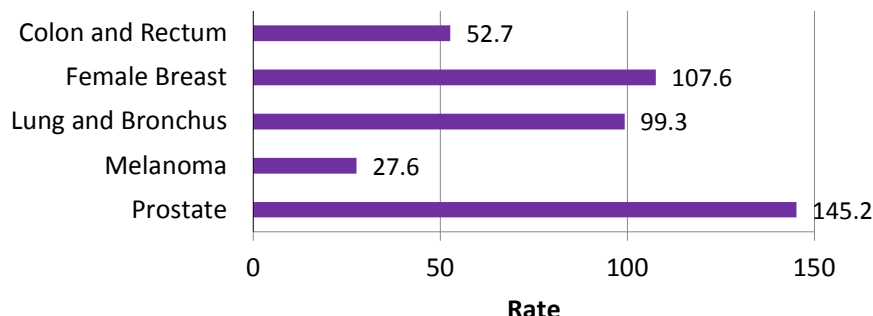
In 2012, the number of incidence and mortality cases in Somerset County were:

Incidence: 140 new cases of all cancer cases

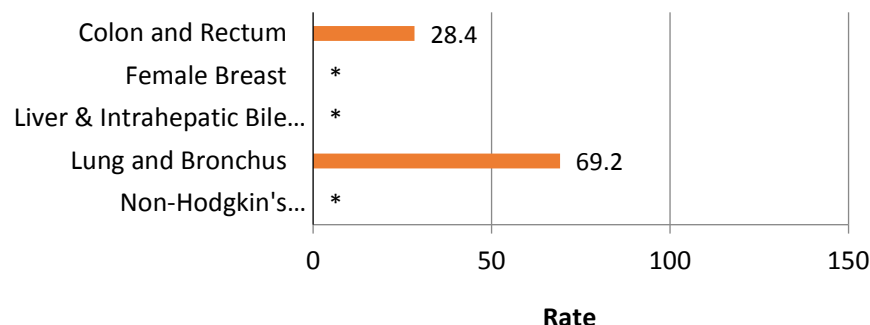
Mortality: 63 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

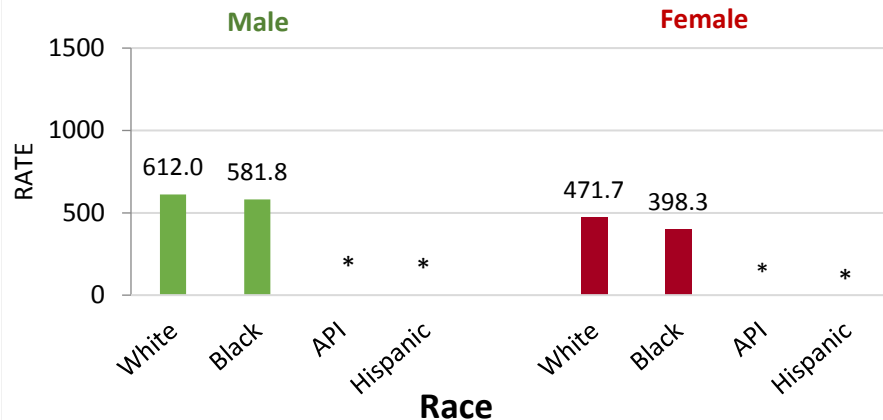


MORTALITY

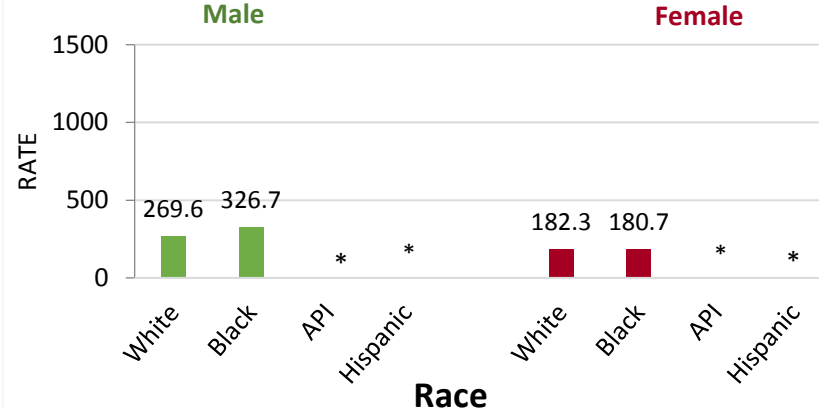


Incidence and Mortality Rates by Race and Gender, 2008-2012

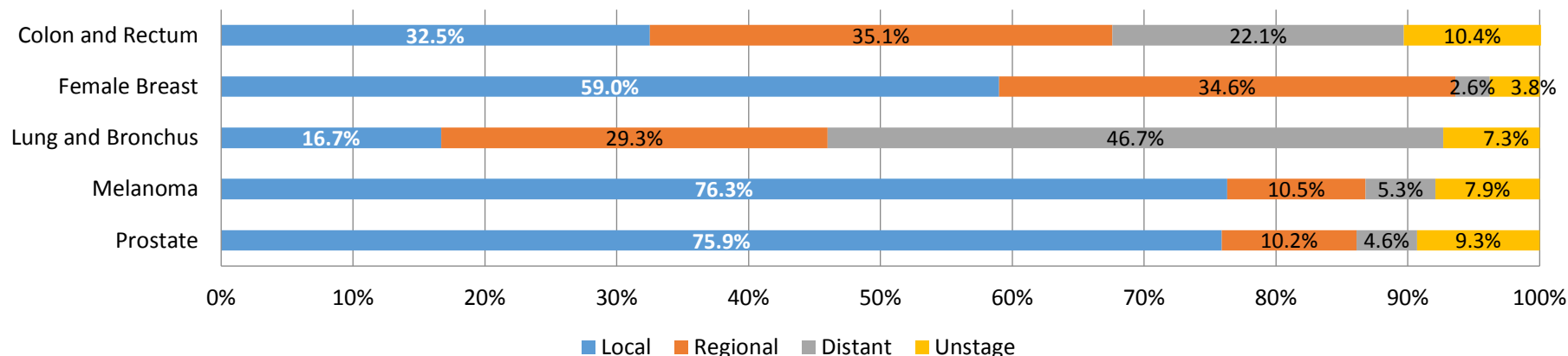
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

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Maryland Department of
Health and Mental Hygiene

St. Mary's County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

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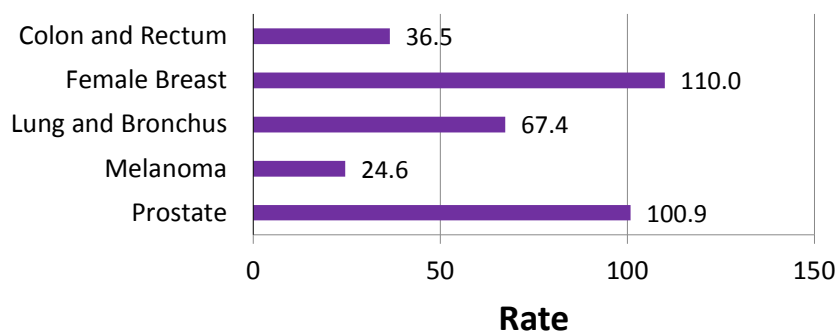
In 2012, the number of incidence and mortality cases in St. Mary's County were:

Incidence: 457 new cases of all cancer cases

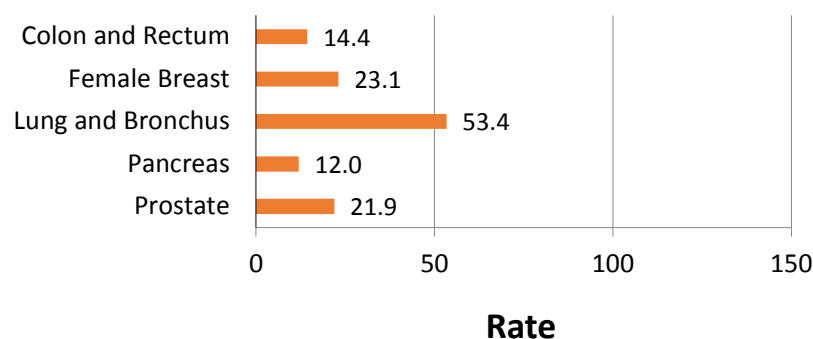
Mortality: 185 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

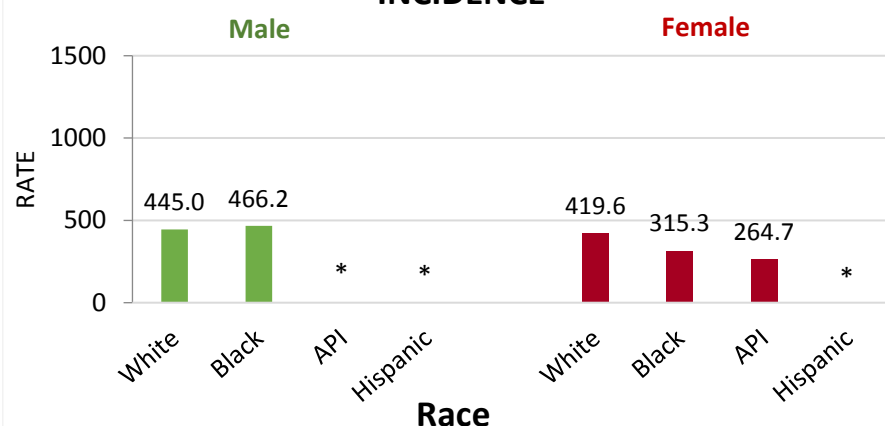


MORTALITY

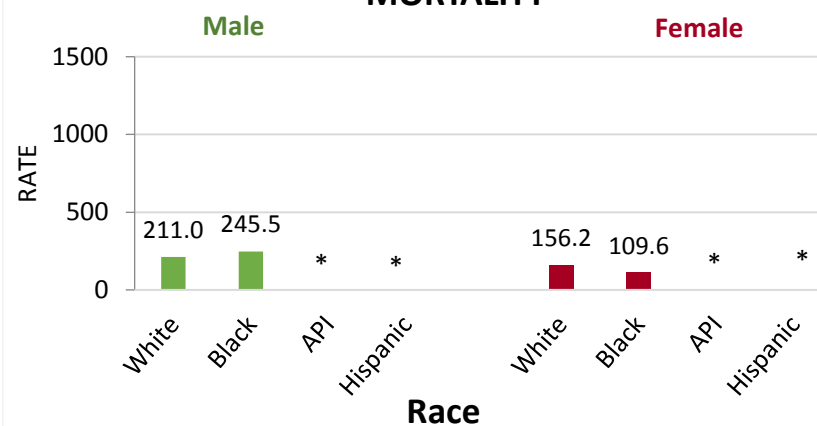


Incidence and Mortality Rates by Race and Gender, 2008-2012

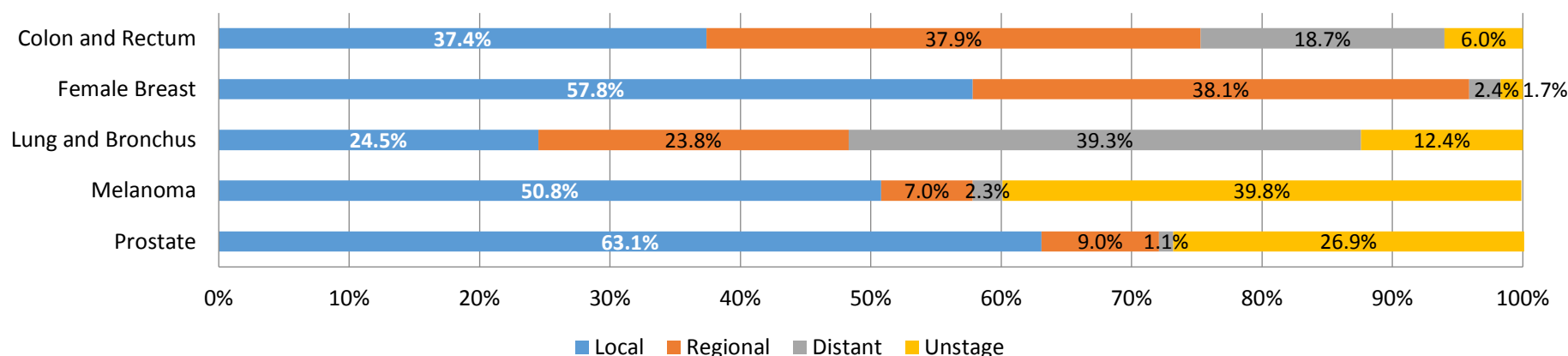
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

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Maryland Department of
Health and Mental Hygiene

Talbot County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

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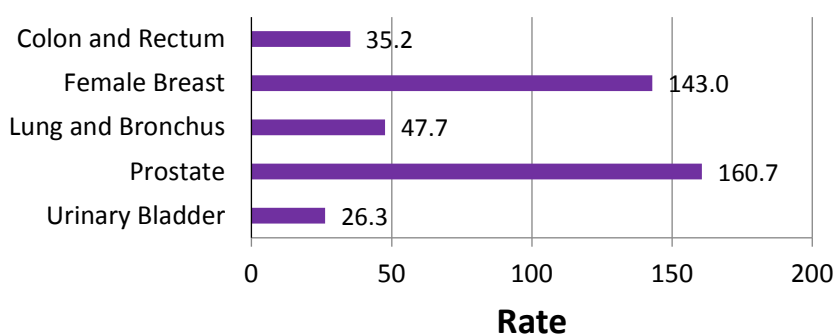
In 2012, the number of incidence and mortality cases in Talbot County were:

Incidence: 280 new cases of all cancer cases

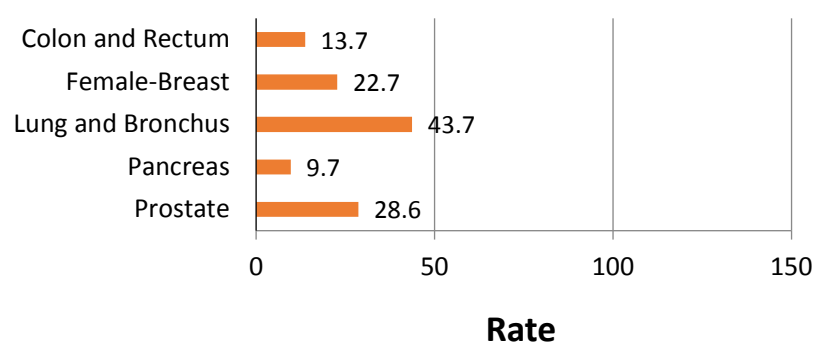
Mortality: 108 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

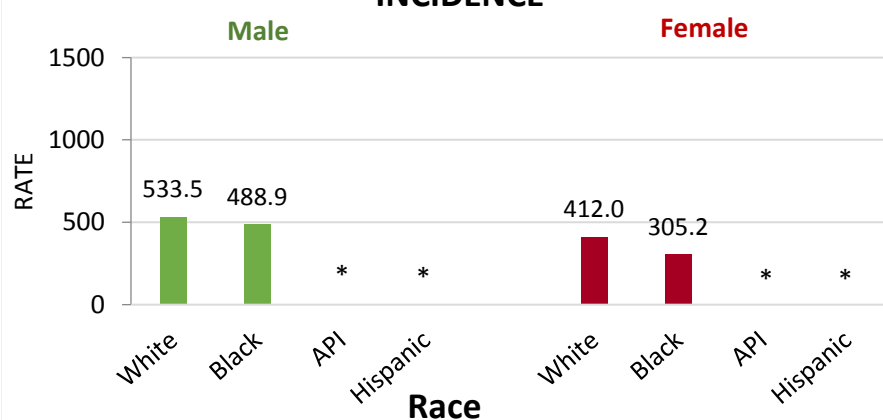


MORTALITY

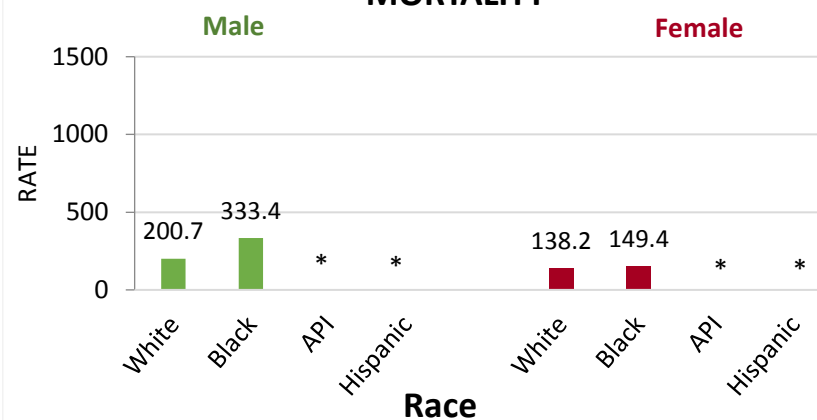


Incidence and Mortality Rates by Race and Gender, 2008-2012

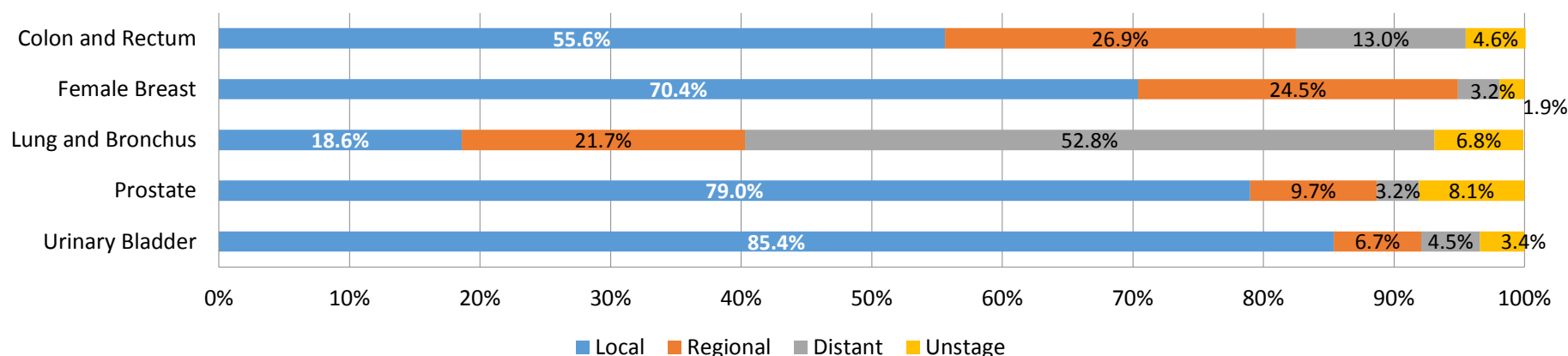
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

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Maryland Department of
Health and Mental Hygiene

Washington County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

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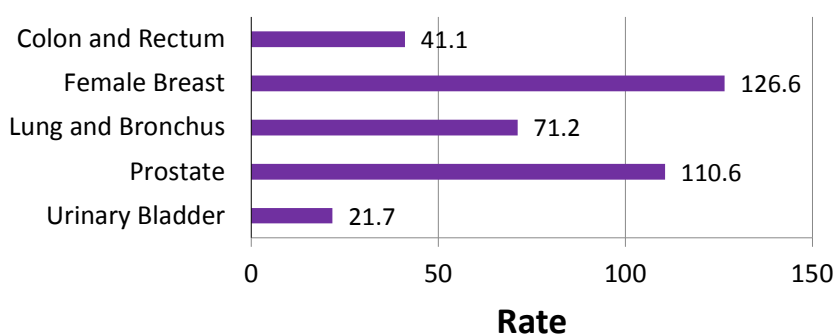
In 2012, the number of incidence and mortality cases in Washington County were:

Incidence: 832 new cases of all cancer cases

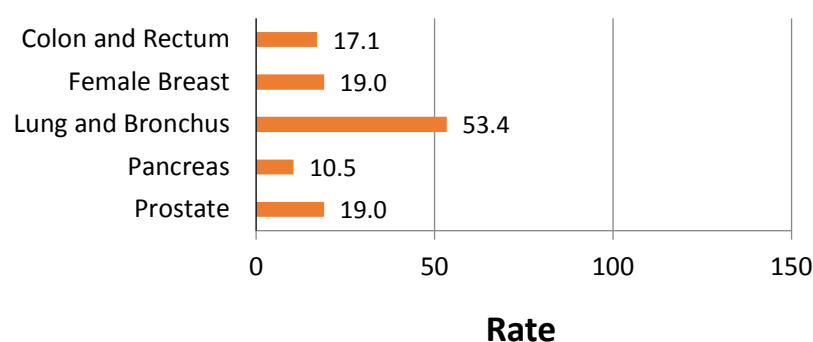
Mortality: 316 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

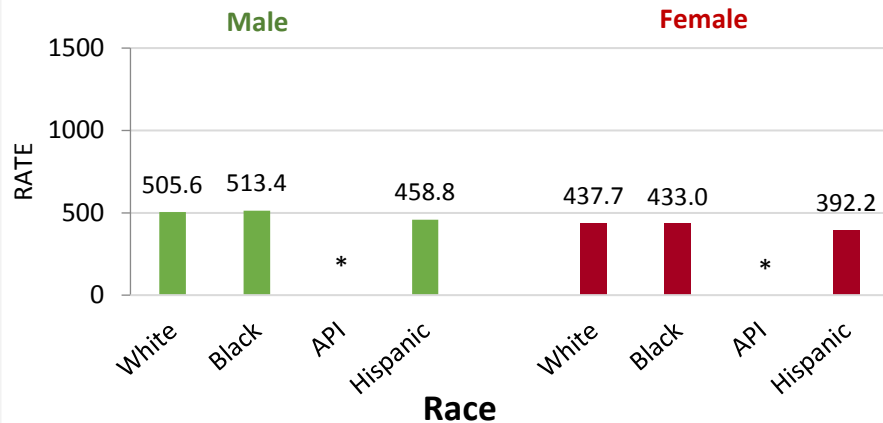


MORTALITY

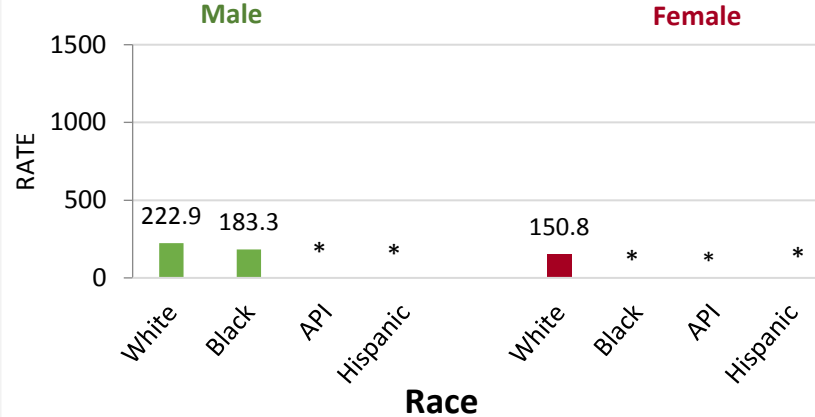


Incidence and Mortality Rates by Race and Gender, 2008-2012

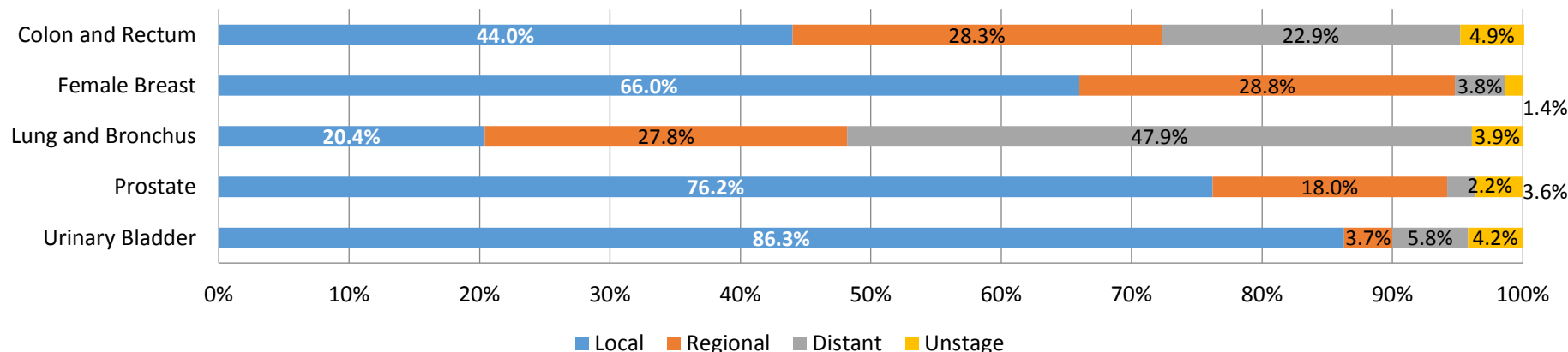
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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Mortality Rates based on death counts of 0-19 are suppressed per DHMH / CCPC Mortality Data Suppression Policy

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Maryland Department of
Health and Mental Hygiene

Wicomico County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

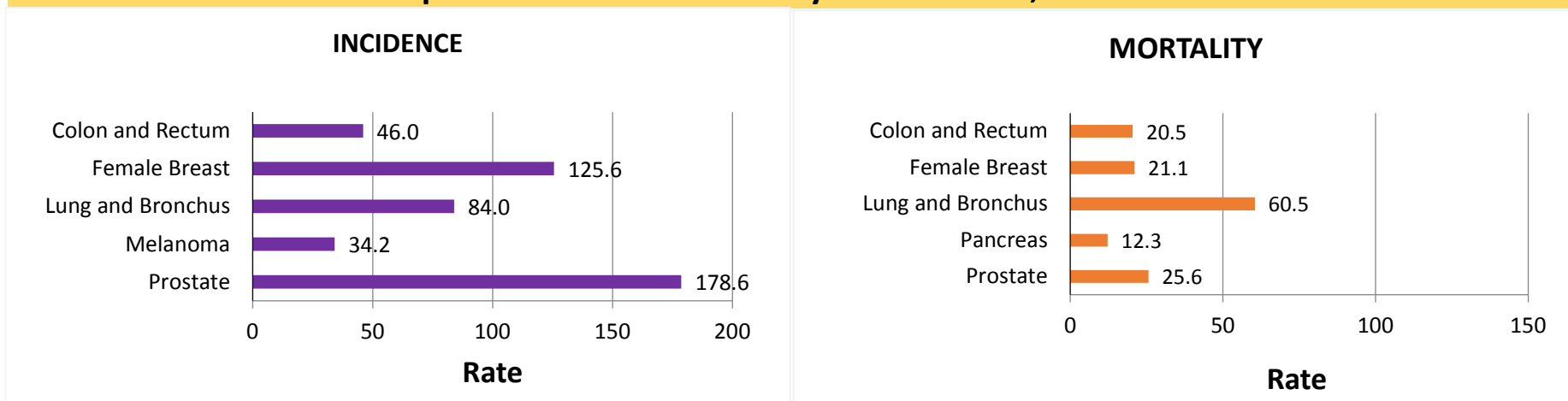
The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

In 2012, the number of incidence and mortality cases in Wicomico County were:

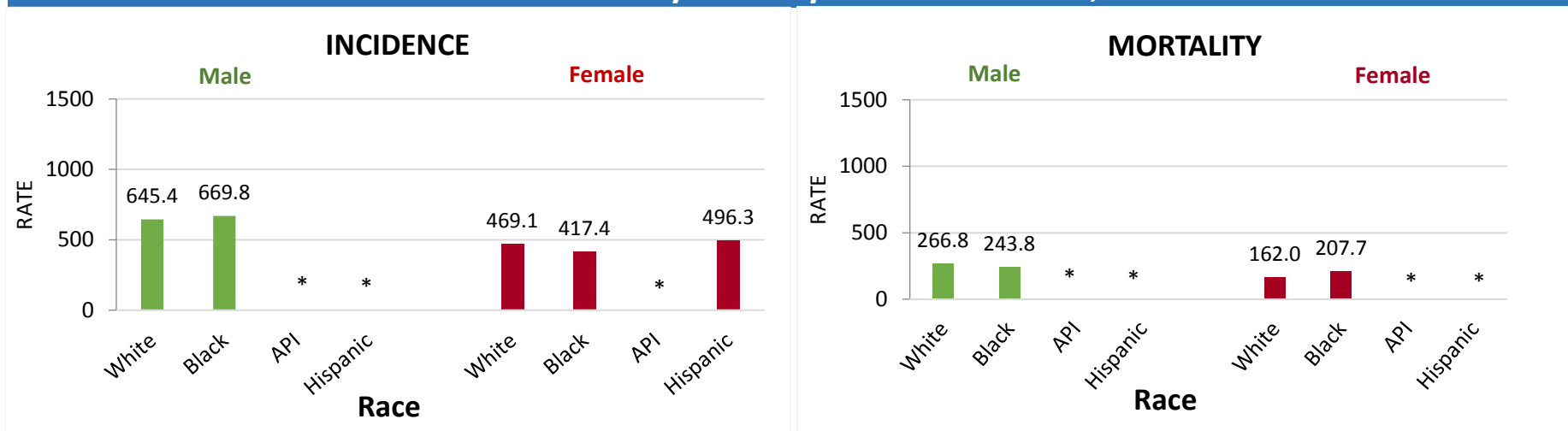
Incidence: 527 new cases of all cancer cases

Mortality: 183 deaths from cancer

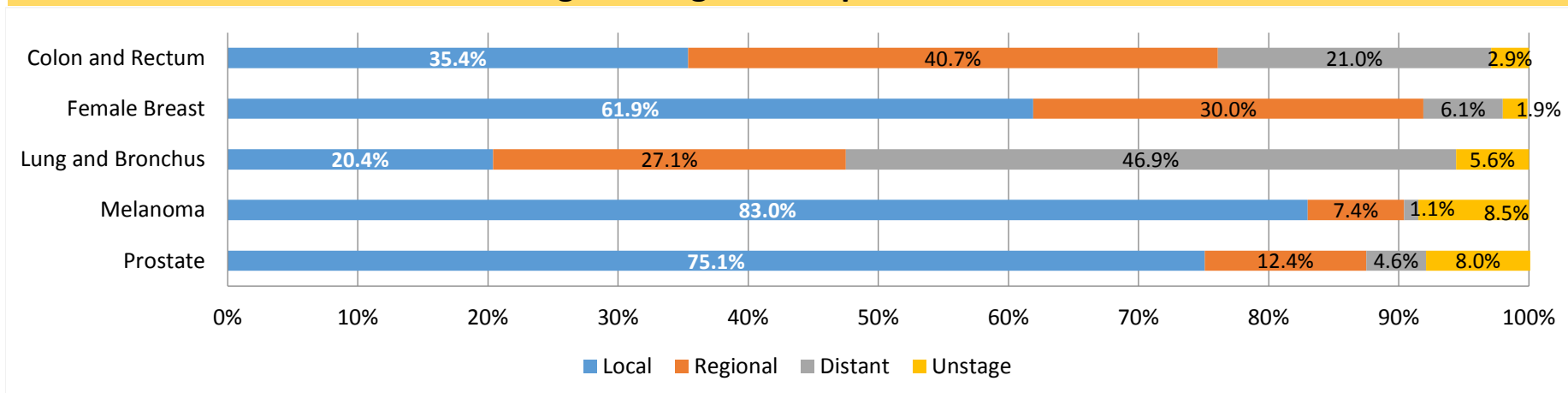
Top 5 Incidence and Morality Cancer Rates, 2008-2012



Incidence and Mortality Rates by Race and Gender, 2008-2012



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

Incidence Rates based on case counts of 1-15 are suppressed per DHMH / MCR Data Use Policy and Procedures

Mortality Rates based on death counts of 0-19 are suppressed per DHMH / CCPC Mortality Data Suppression Policy

API = Asian or Pacific Islander



Maryland Department of
Health and Mental Hygiene

Worcester County



2012 MARYLAND INCIDENCE AND MORTALITY CANCER FACT SHEET

The Maryland Cancer Registry (MCR) is the state's official source for cancer statistics. The MCR collects all new cases of reportable cancers diagnosed and/or treated in Maryland. According to the MCR, a total of 27,962 Maryland residents were diagnosed with cancer in 2012. Cancer remains the second leading cause of death among people in the United States, exceeded only by heart disease.

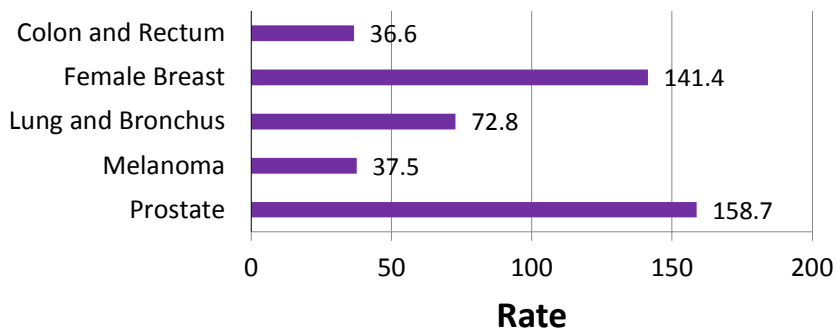
In 2012, the number of incidence and mortality cases in Worcester County were:

Incidence: 380 new cases of all cancer cases

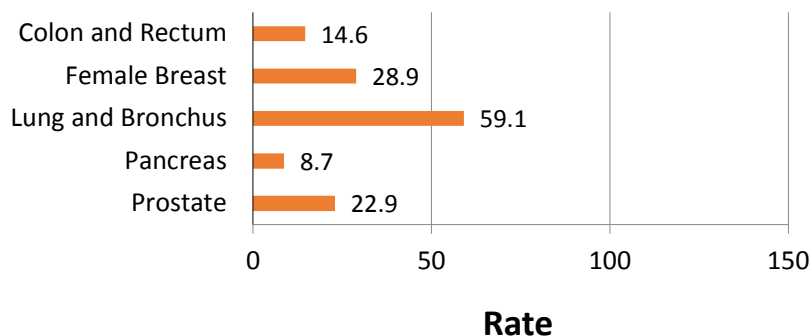
Mortality: 169 deaths from cancer

Top 5 Incidence and Morality Cancer Rates, 2008-2012

INCIDENCE

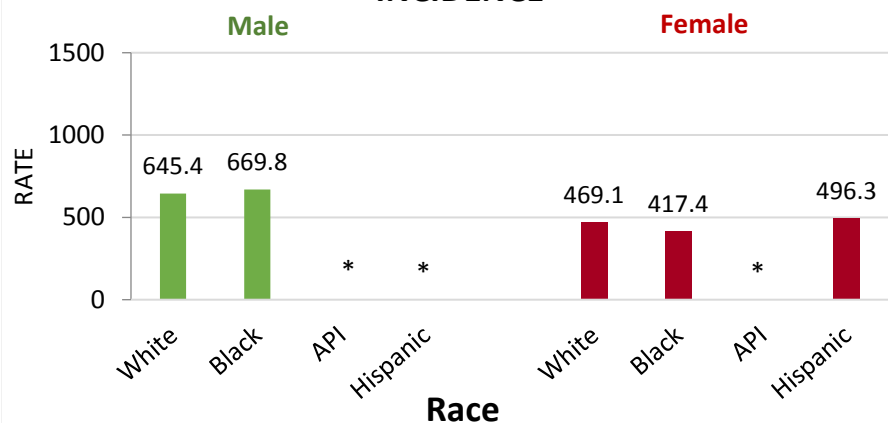


MORTALITY

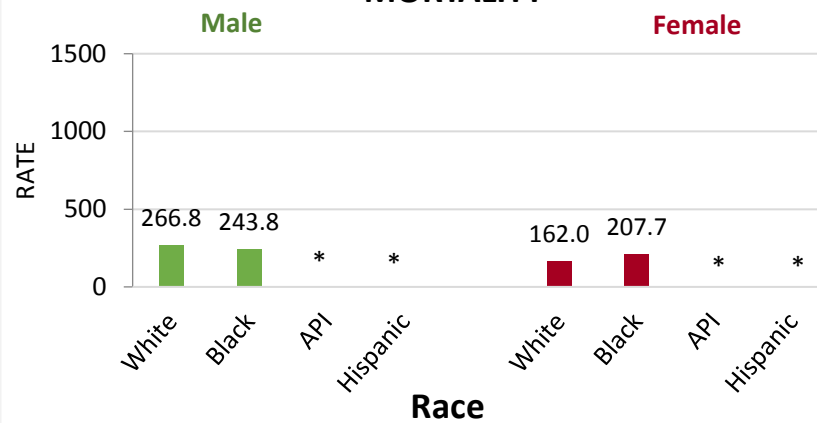


Incidence and Mortality Rates by Race and Gender, 2008-2012

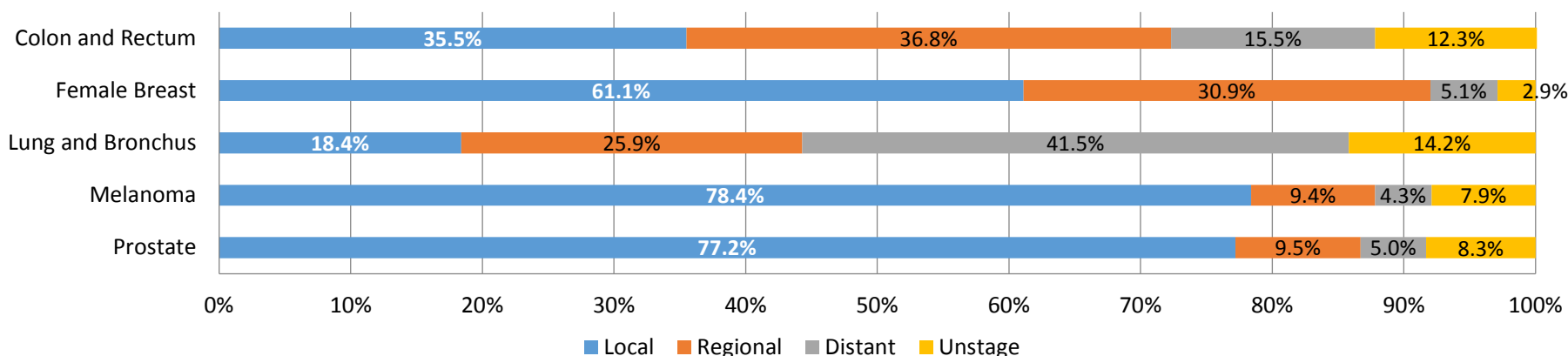
INCIDENCE



MORTALITY



Distribution of Cancer Stage at Diagnosis, Top 5 Incidence Cancer Rates, 2008-2012



Prepared by the Maryland Cancer Registry

* Suppressed rates:

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API = Asian or Pacific Islander

APPENDIX A

2000 U. S. STANDARD POPULATION

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2000 U.S. STANDARD POPULATION

(CENSUS P25-1130)

Age Group	2000 Population
Less than 00 age	3,794,901
01-04 years	15,191,619
05-09 years	19,919,840
10-14 years	20,056,779
15-19 years	19,819,518
20-24 years	18,257,225
25-29 years	17,722,067
30-34 years	19,511,370
35-39 years	22,179,956
40-44 years	22,479,229
45-49 years	19,805,793
50-54 years	17,224,359
55-59 years	13,307,234
60-64 years	10,654,272
65-69 years	9,409,940
70-74 years	8,725,574
75-79 years	7,414,559
80-84 years	4,900,234
85+ years	44,259,17
Total	274,633,642

Source: National Cancer Institute- SEER 2000

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APPENDIX B

GLOSSARY

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GLOSSARY

- **Age-adjustment:** Age is the most important risk factor for the incidence of most cancers. However, cancer rates derived from populations that differ in underlying age structure are not comparable. Age-adjustment is a statistical technique that allows for the comparison of rates among populations with different age distributions, by weighting the age-specific rates in each population to one standard population. Additional information on age-adjustment can be found on the following web sites:

<http://seer.cancer.gov/seerstat/tutorials/aarates/definition.html>

<http://www.cdc.gov/nchs/data/statnt/statnt20.pdf>

- **Annual percent change (APC):** A measure of the annual percent increase or decrease in cancer rates over time, used for analyzing trends. This measure assumes that cancer rates change at a constant percentage of the rate of the previous year. Rates that change at a constant percentage every year change linearly on a log scale. A more detailed description of the method can be found at:

[http://surveillance.cancer.gov/joinpoint/webhelp/Executing the Joinpoint Parameters/Statistical Notes/Statistics Related to the k-joinpoint Model/Average Annual Percent Change.htm](http://surveillance.cancer.gov/joinpoint/webhelp/Executing_the_Joinpoint_Parameters/Statistical_Notes/Statistics_Related_to_the_k-joinpoint_Model/Average_Annual_Percent_Change.htm)

- **Ascertainment:** Refers to the quality assurance procedures that Maryland Cancer Registry staff use to ensure completeness of cancer cases in the Registry database. These activities include: a review of disease indices from all reporting hospitals to identify possible missed cases; an evaluation of random samples of records from reporting facilities; and a review of death certificate data to identify cancer cases not previously reported.
- **Cancer:** A disease characterized by the uncontrolled, abnormal growth of cells in different parts of the body that can spread to other parts of the body.
- **Chemoprevention:** Chemoprevention is the use of drugs, vitamins, or other agents to try to reduce the risk of cancer or to delay the development or recurrence of cancer.

- **Confidence interval (CI):** The range of values for a calculated estimate that will include the true value a given percentage of the time. A 95% CI for a rate includes the true rate 95% of the time.
- **Incidence:** The number of new cases of a given cancer or other event during a defined time period, usually one year. For the purposes of this report, cancer incidence refers to the number of new cases diagnosed during the individual calendar year 2012. Cancer incidence data are also presented in aggregated form, as the average annual incidence for the 5-year period from 2008 through 2012.
- **International Classification of Diseases (ICD):** The ICD is the international standard diagnostic classification for all general epidemiological, health management, and clinical use. It is used to classify diseases and other health problems recorded on many types of health and vital records, including death certificates and health records.
- **International Classification of Diseases for Oncology (ICD-O):** The ICD-O is the classification system used by tumor or cancer registries to code the site and the histology of the cancer, usually from a pathology report.
- **Invasive cancer:** Cancer that has spread beyond the layer of cells where it first began and has grown into nearby tissues. It may still be considered local stage if it has not spread to other parts of the body. Stage data presented in this report involve a diagnosis of invasive cancer: local, regional, or distant. A diagnosis of *in situ* is non-invasive and is not included in the staging data, except for *in situ* bladder cancer for all sites cancer data.
- **Mortality:** The number of deaths during a defined time period, usually one year. For the purposes of this report, cancer mortality refers to the number of new cancer deaths during the individual calendar year 2012. Cancer mortality data are also presented in an aggregated form, as the average annual mortality for the 5-year period from 2008 through 2012.
- **Rate:** An estimate of the burden of a given disease on a defined population at risk over a specified period of time. A crude rate is calculated by dividing the number of cases or deaths (events) by the population at risk during a given time period. Cancer incidence and mortality rates are usually presented per 100,000 population during a given time period. An incidence rate is the number of new cases during a specific period (usually one year) divided by the population at risk per 100,000 population. A mortality rate is the number of deaths for a given period divided by the population at risk per 100,000 population. All rates presented in this report are age-adjusted to the 2000 U.S. standard population.

- **Stage at diagnosis:** Cancer stage is the extent to which the cancer has spread from the organ of origin at the time of diagnosis. The stage information used in this report is based on the SEER Summary Stage Guidelines:
 1. ***In situ*:** The cancerous cells have not invaded the tissue basement membrane and no stromal invasion. *In situ* cancers are not considered malignant (with the exception of bladder cancers) and are not included in incidence rate calculations.
 2. **Local:** The tumor is confined to the organ of origin.
 3. **Regional:** The tumor has spread to adjacent organs or tissue. Regional lymph nodes may also be involved.
 4. **Distant:** The tumor has spread beyond the adjacent organs or tissues. Distant lymph nodes, organs, and/or tissues may also be involved.
 5. **Unstaged:** The stage of disease at diagnosis was unable to be classified (often due to insufficient information) or was not reported to the cancer registry.

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For comments or questions about this report, contact:

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