

Cancer Incidence and Mortality Facts, 2011 DC Cancer Registry



Introduction

- DC Cancer Registry is a population-based cancer surveillance system that maintains a record of the occurrence of all malignant cancer cases, and certain reportable benign conditions within the District.
- National collection of cancer surveillance data has been Congressionally mandated since 1951. Approximately 9,000 new cases are added annually, of these approximately 3,000 (1/3) are DC residents.
- Reference Date is January 1, 1996
 - This date indicates that all cancer cases either diagnosed or treated after this date are reportable and maintained in the DC Cancer Registry.

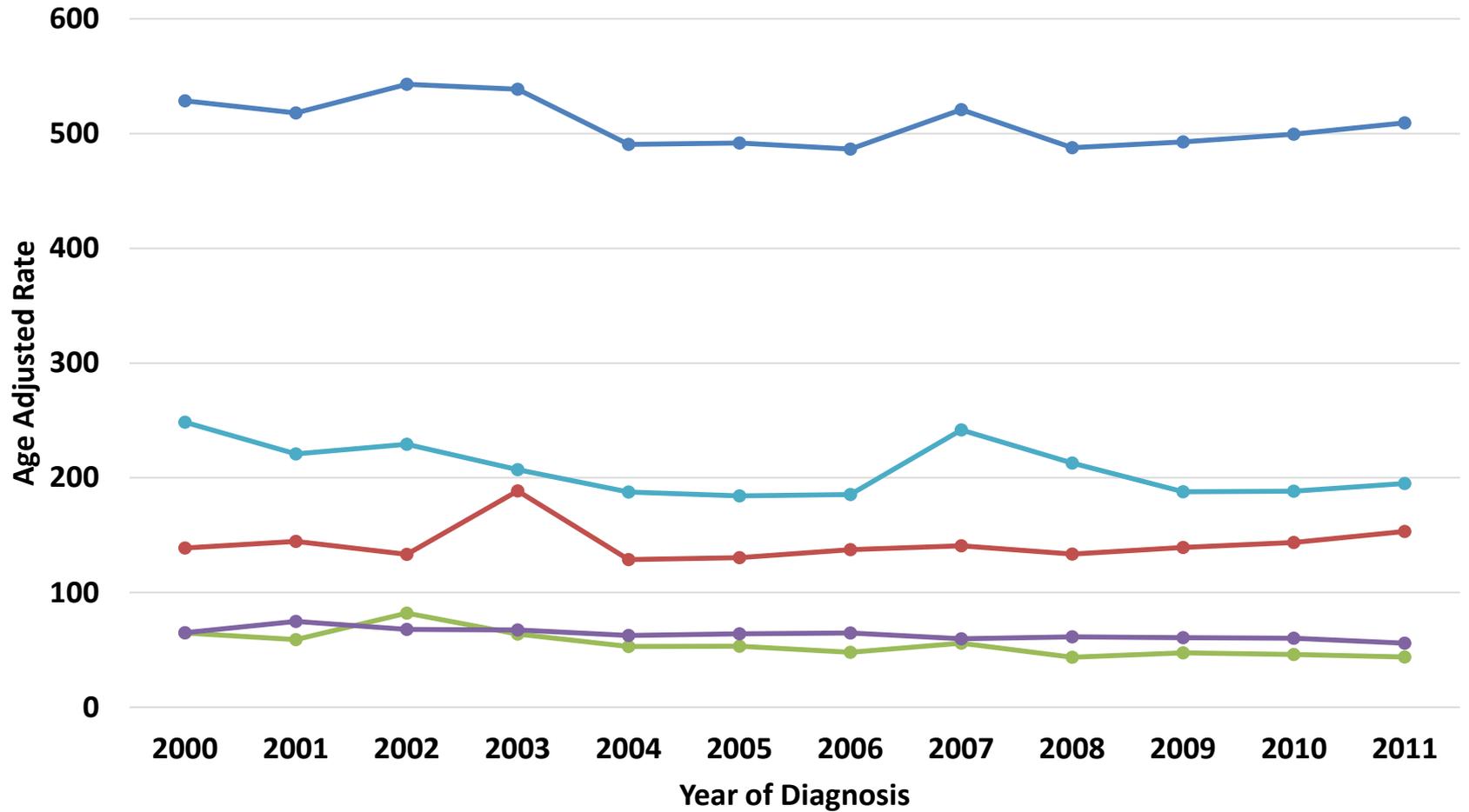
Cancer Registry Data

- Local, state and national cancer agencies use registry data in defined areas to make important public health decisions that maximize the effectiveness of limited public health funds, such as the placement of screening programs.
- Currently we have approximately 250,000 abstracts in DC Cancer Registry.
- What information is maintained in the cancer registry?
 - Demographics
 - Medical History
 - Diagnostic Findings
 - Cancer Information
 - Treatment
 - Follow-up

Cancer Registries National standards producing Cancer data

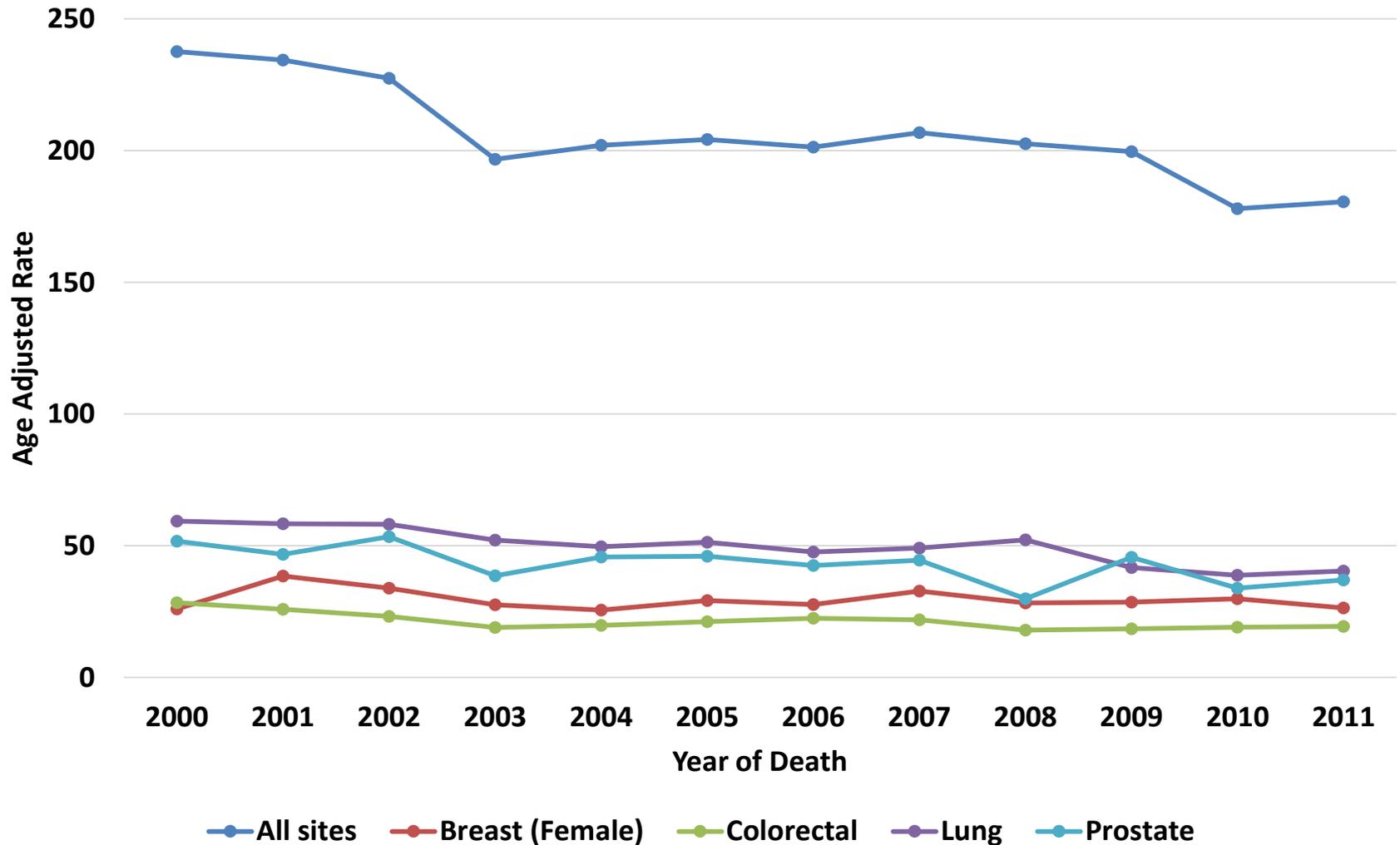
- Hospitals are required to report cancer cases within 6 months of first contact for diagnosis or treatment.
- Central Cancer Registries consolidate cancer cases from several sources (hospitals, laboratories, etc.).
- Central Cancer Registries edit cancer cases, link cancer cases with deaths from death documents from their state's Vital Records, exchange cancer cases with other states and geocode cancer cases.
- Central Cancer Registries submit cancer cases to CDC/NPCR (Centers for Disease Control and Prevention/National Program of Cancer Registries) and NAACCR (North American Association of Central Cancer Registries) in accordance to National Standards. This submission is performed two years after diagnosis, to allow time for completion first course of cancer therapy modalities and for consolidations (Example in November 2015 all 2013 cancer data must be reported to CDC and NAACCR).
- Central Cancer Registries produce counts, rates, tables, graphics, maps, etc., 3 years after the cases were diagnosed, at the same time that CDC, NAACCR and ACS (American Cancer Society) publish national cancer data for the same diagnosis year.

Incidence: Trends by selected cancer sites (2000-2011)



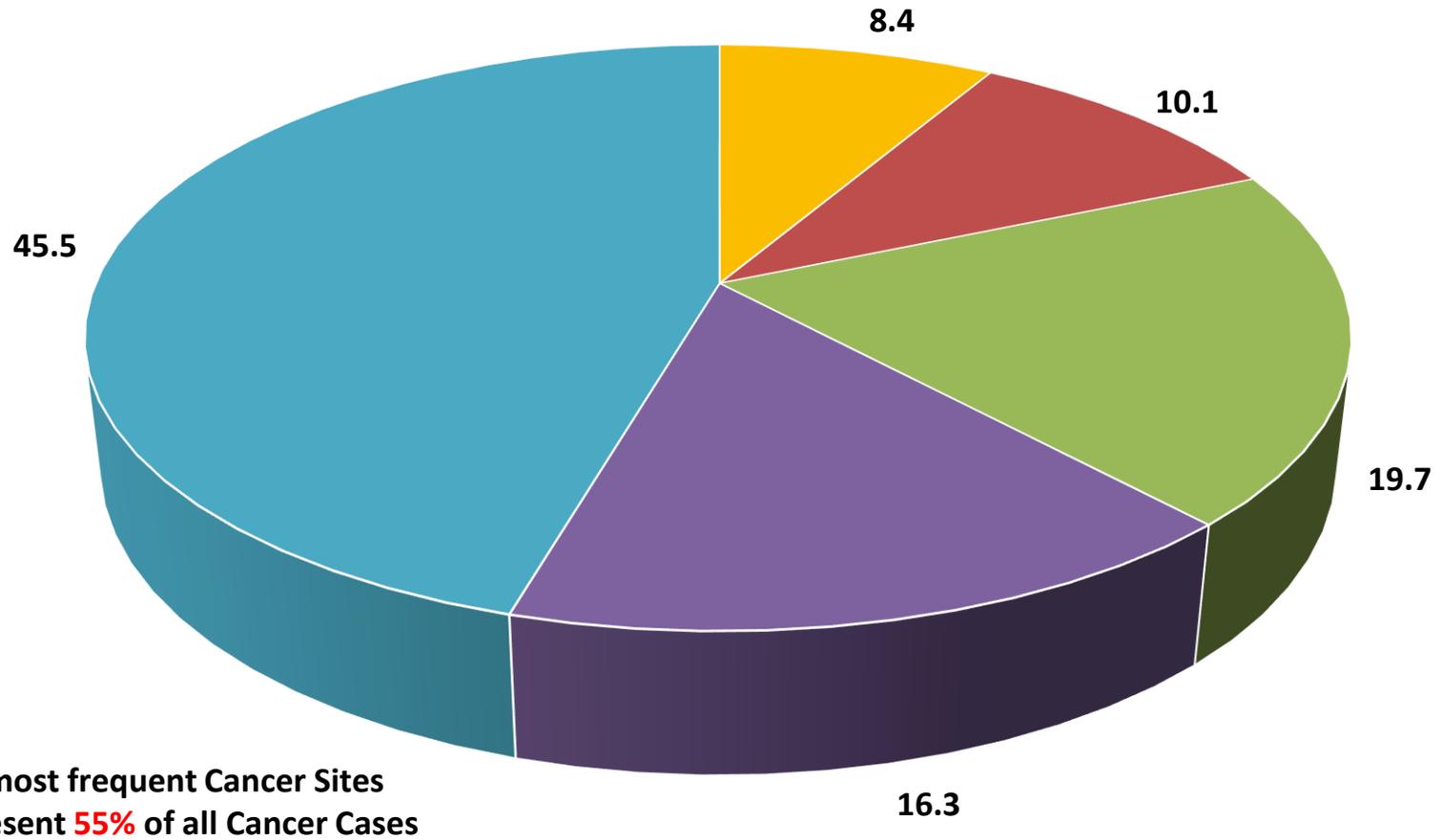
—●— All sites —●— Breast (Female) —●— Colorectal —●— Lung —●— Prostate

Mortality: Trends by selected cancer sites (2000-2011)



Distribution of the most frequent cancer cases

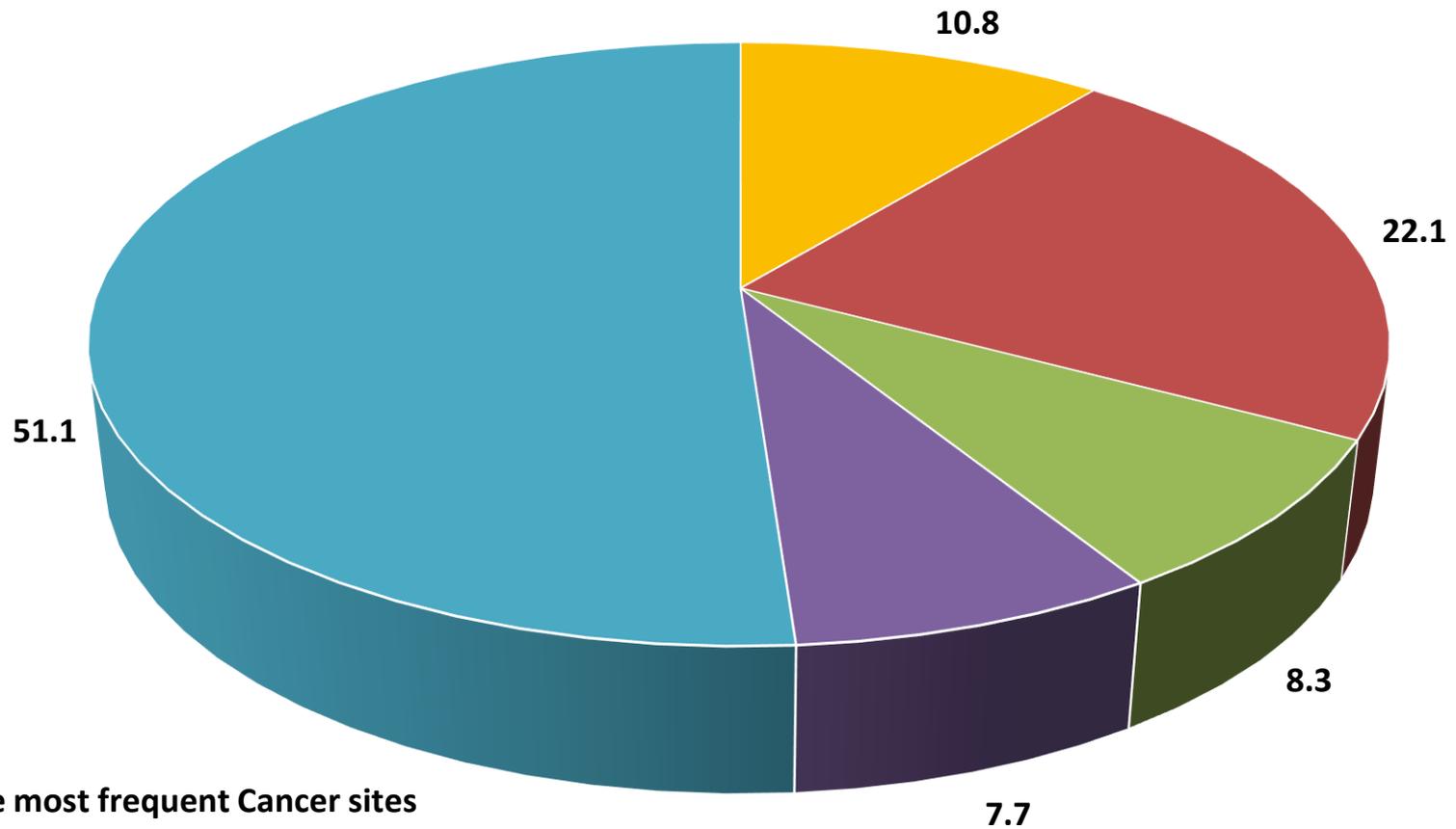
Incidence 2011 - Percentages



■ Colorectal ■ Lung and Bronchus ■ Breast ■ Prostate ■ Other

Distribution of the most frequent cancer deaths

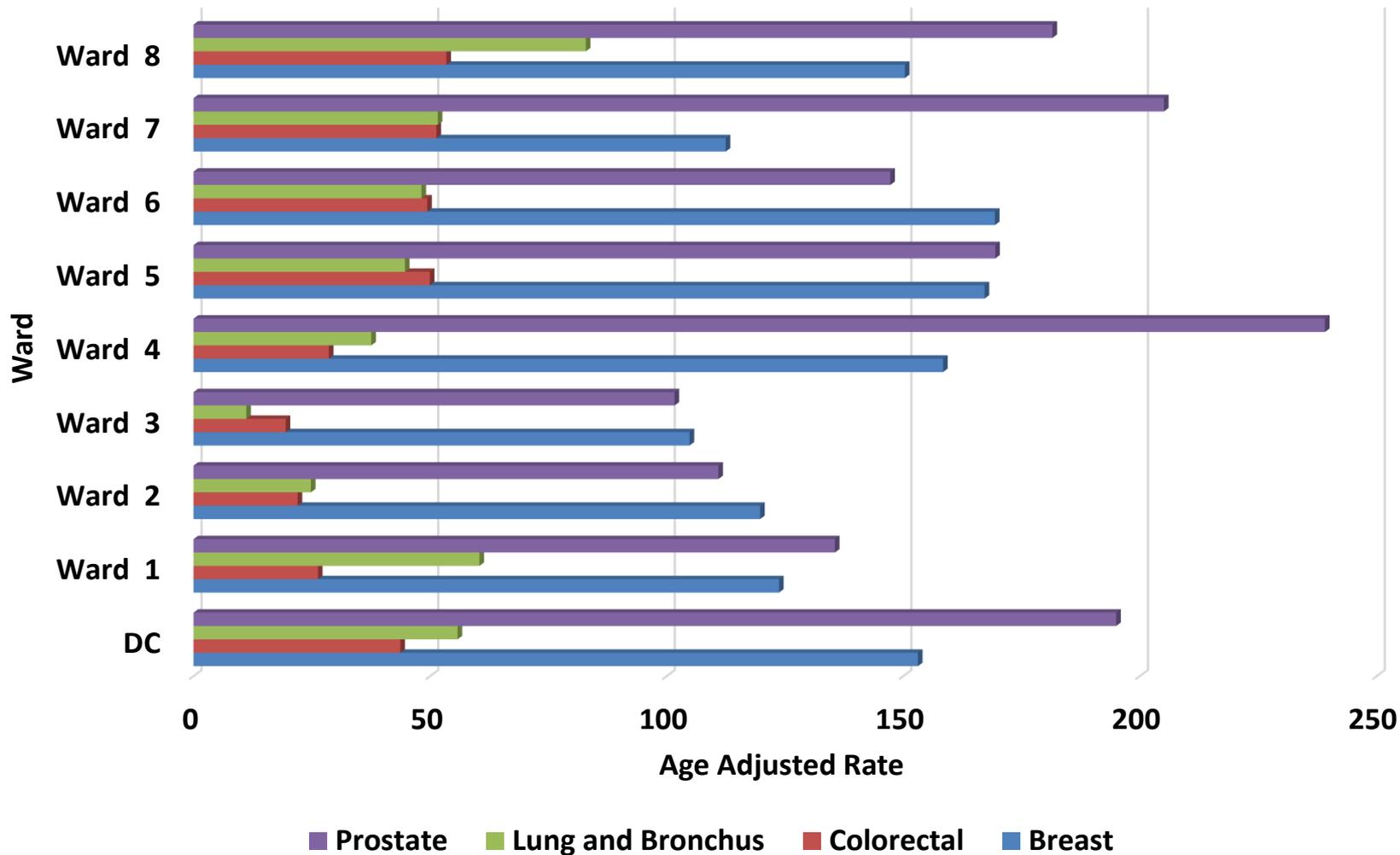
Mortality 2011 - Percentages



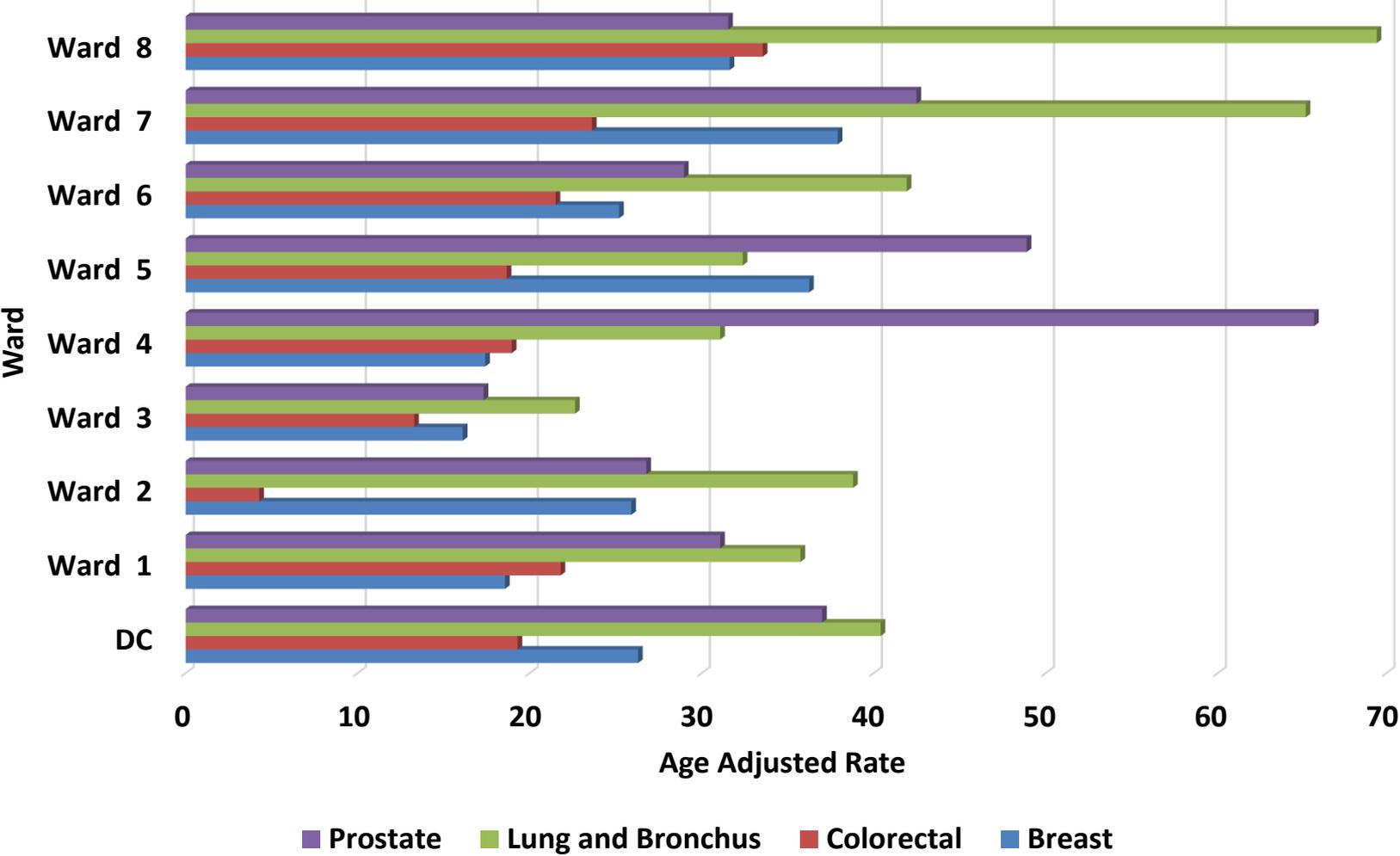
The most frequent Cancer sites represent 49% of all cancer deaths

■ Colorectal ■ Lung and Bronchus ■ Breast ■ Prostate ■ Other

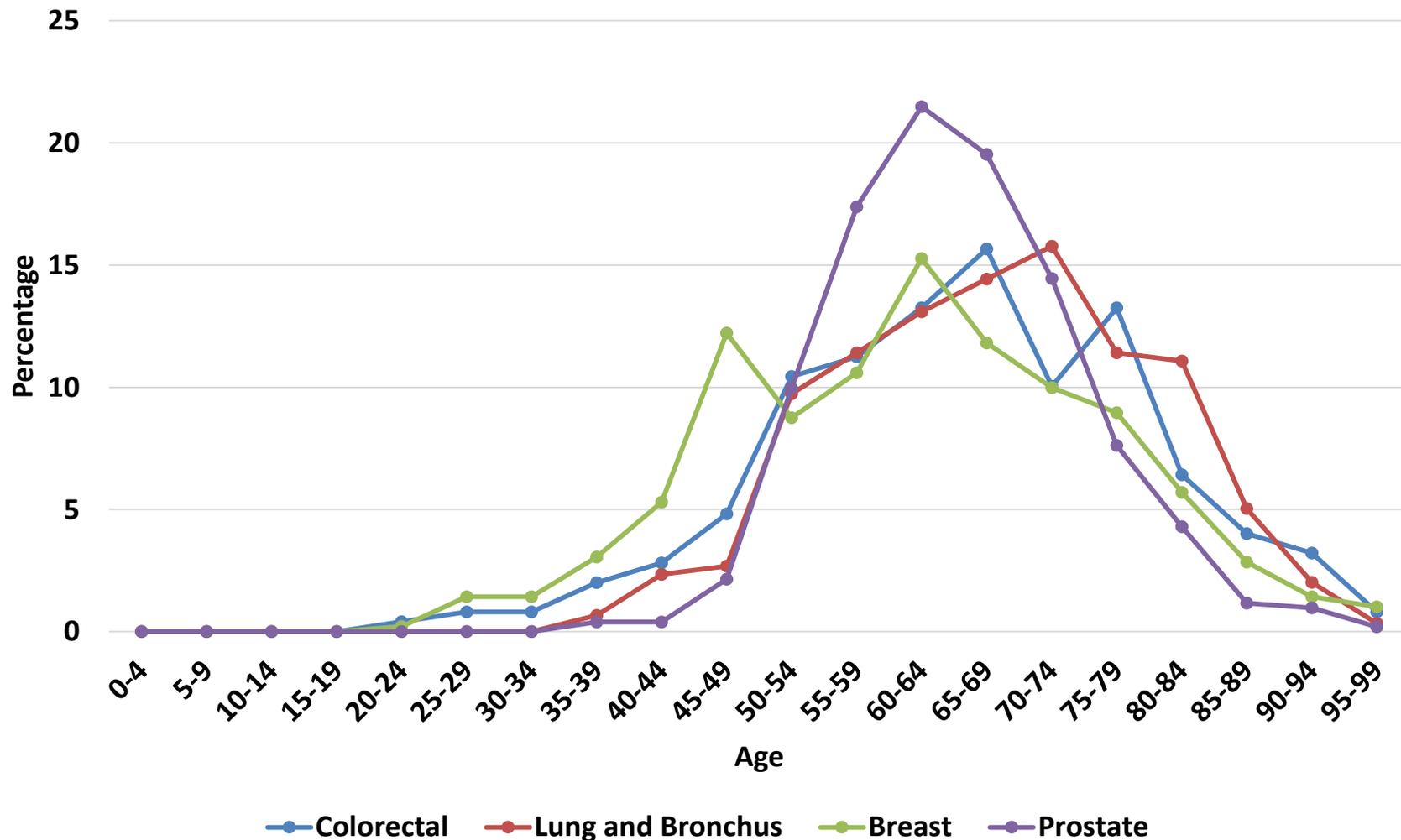
Incidence: Ward distribution by selected cancer sites, 2011



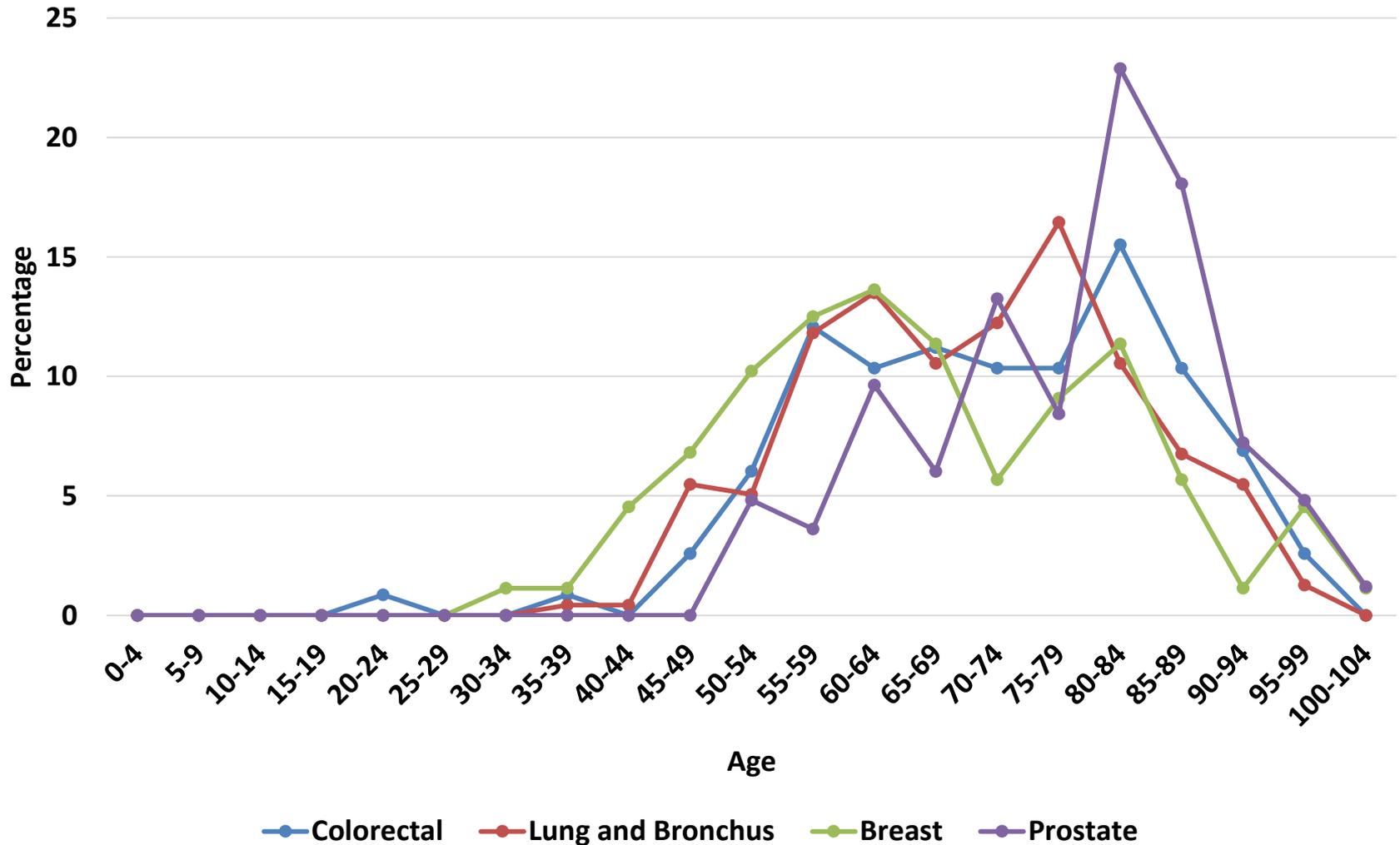
Mortality: Ward distribution by selected cancer sites, 2011



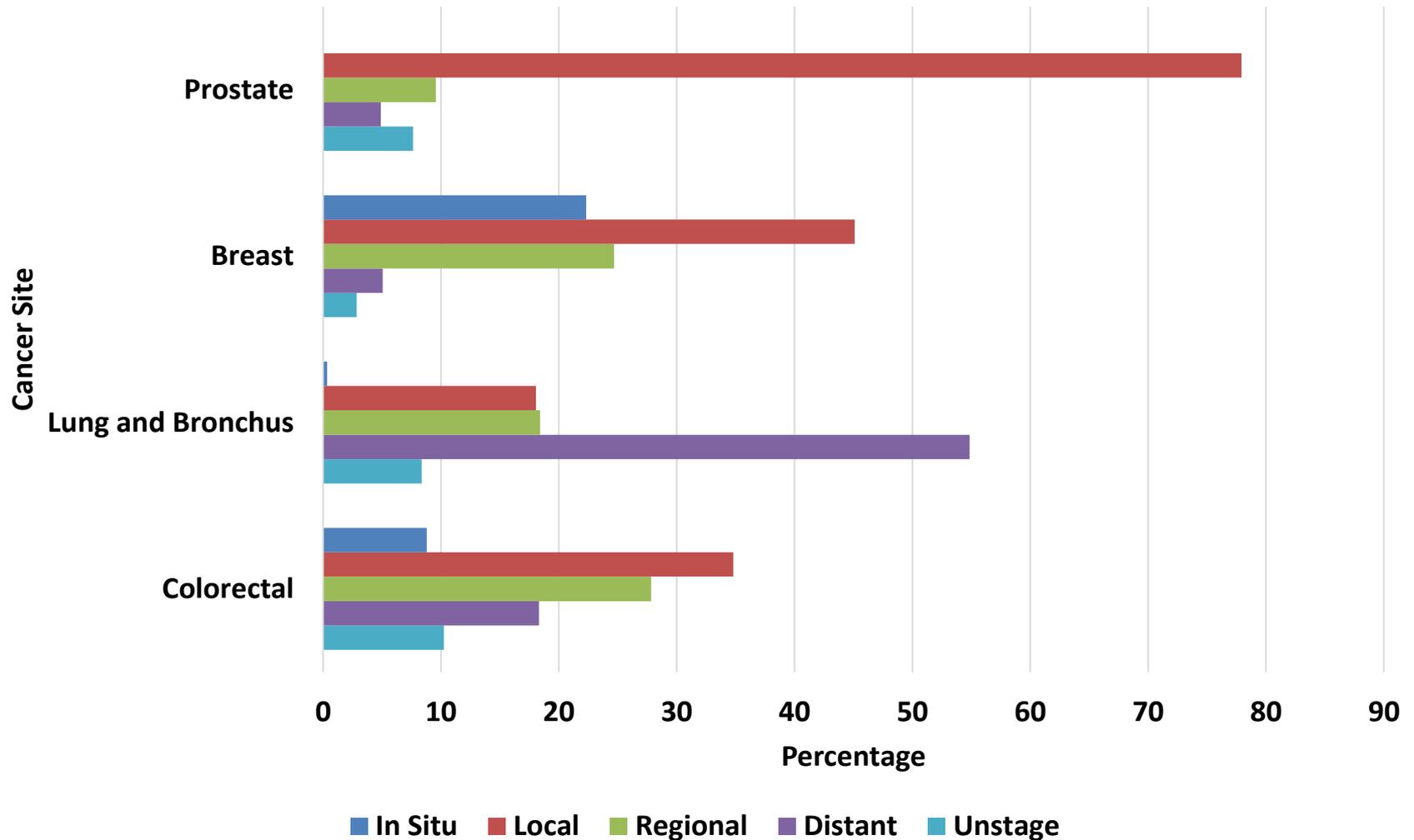
Incidence: Age distribution by selected cancer sites, 2011 - Percentages



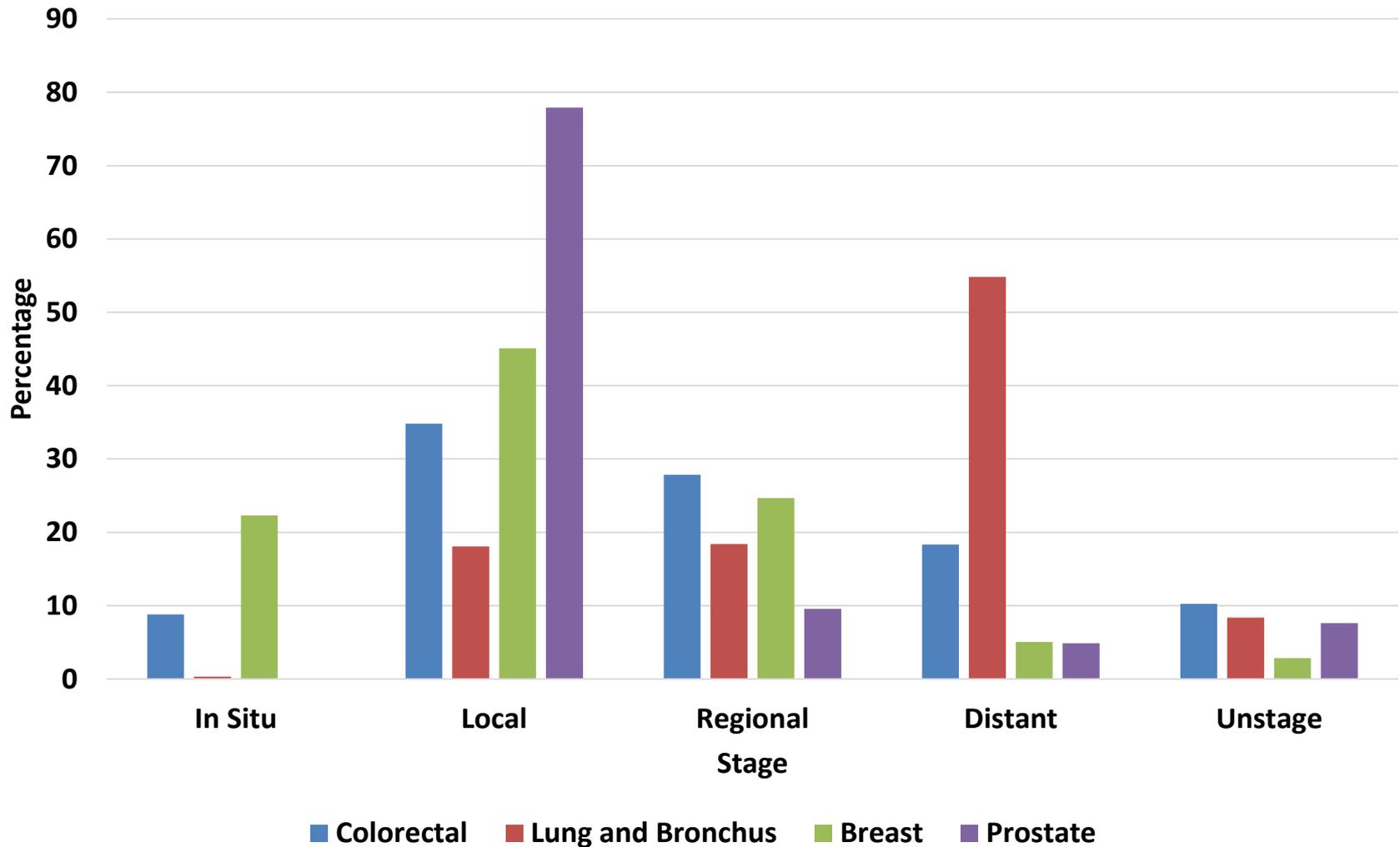
Mortality: Age distribution by selected cancer sites, 2011 - Percentages



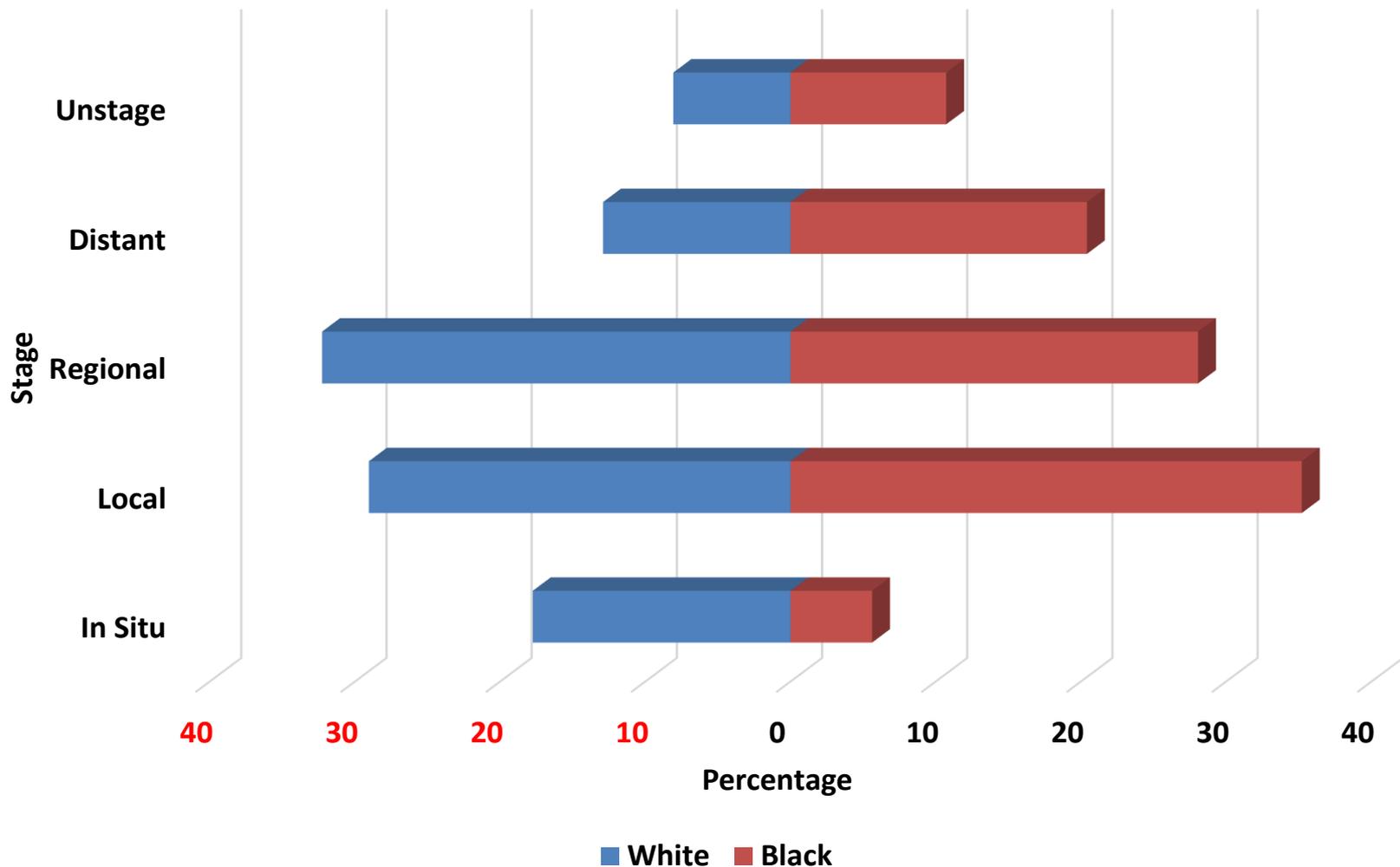
Incidence: Stage distribution by selected cancer sites, 2011 - Percentages



Incidence: Stage distribution by selected cancer sites, 2011 - Percentages

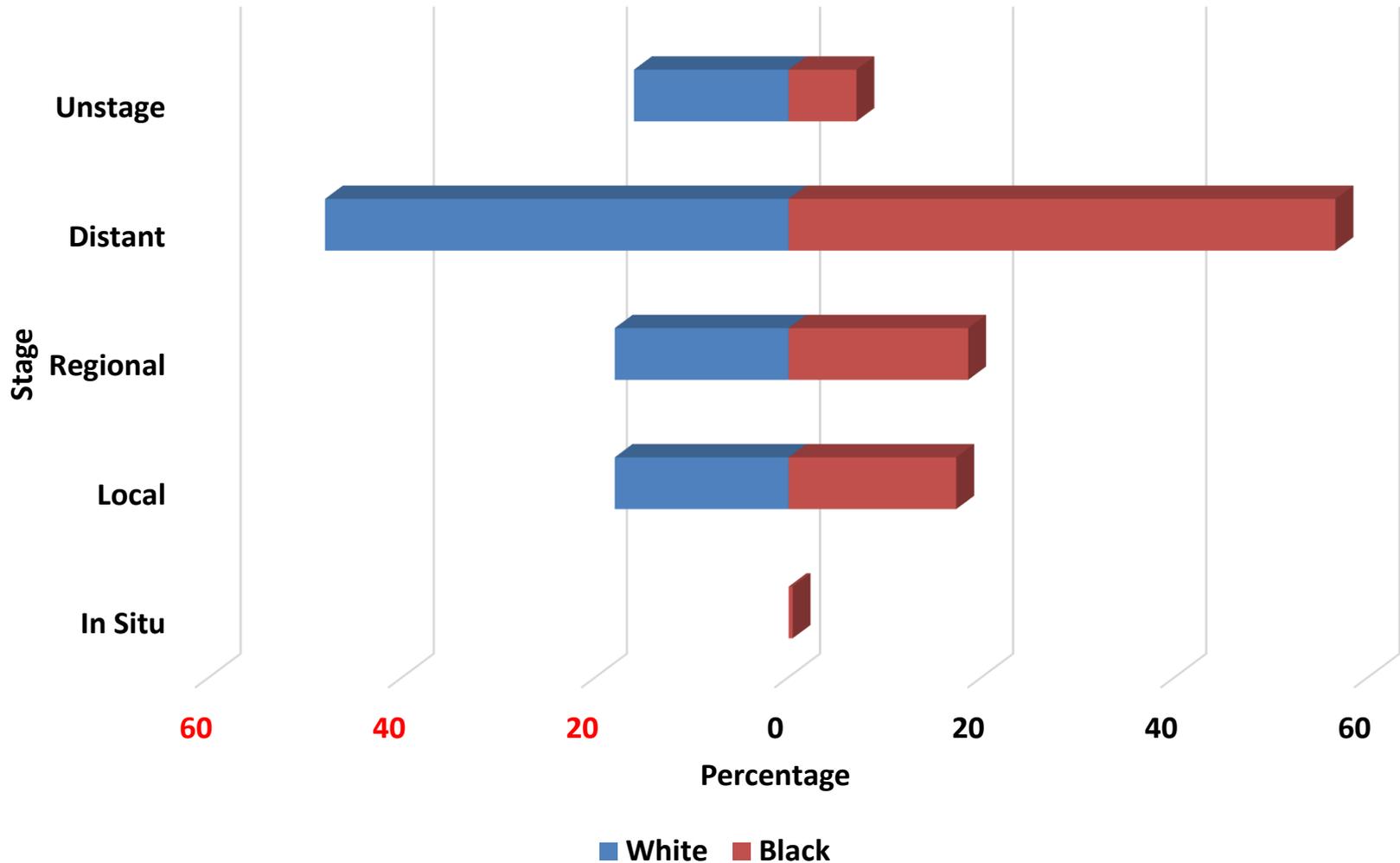


Colorectal **Incidence**: Stage distribution by race, **2011** - Percentages



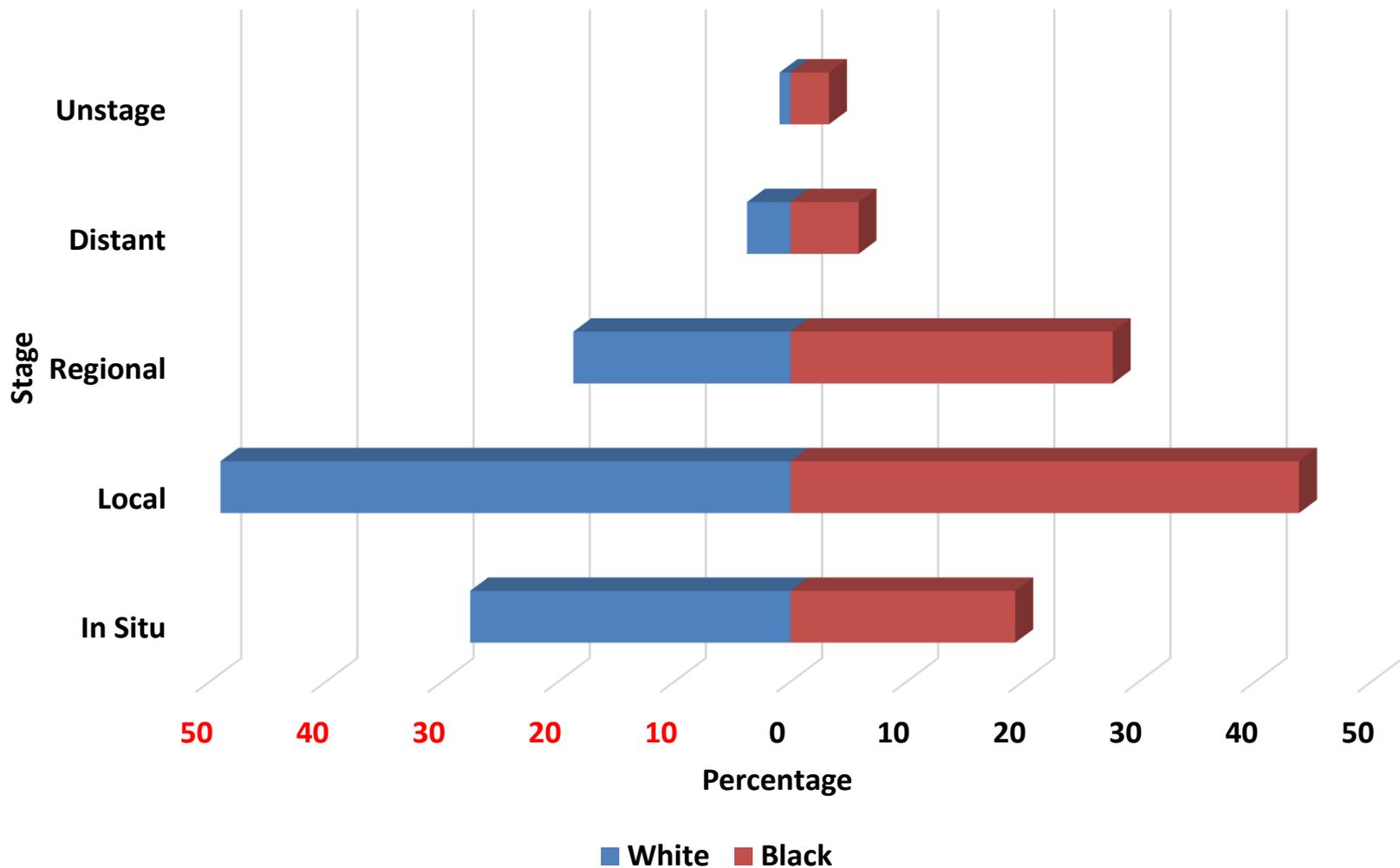
**63% of Colorectal Cancer are diagnosed
at Local and Regional Stage**

Lung and Bronchus **Incidence**: Stage distribution by race, 2011 - Percentages



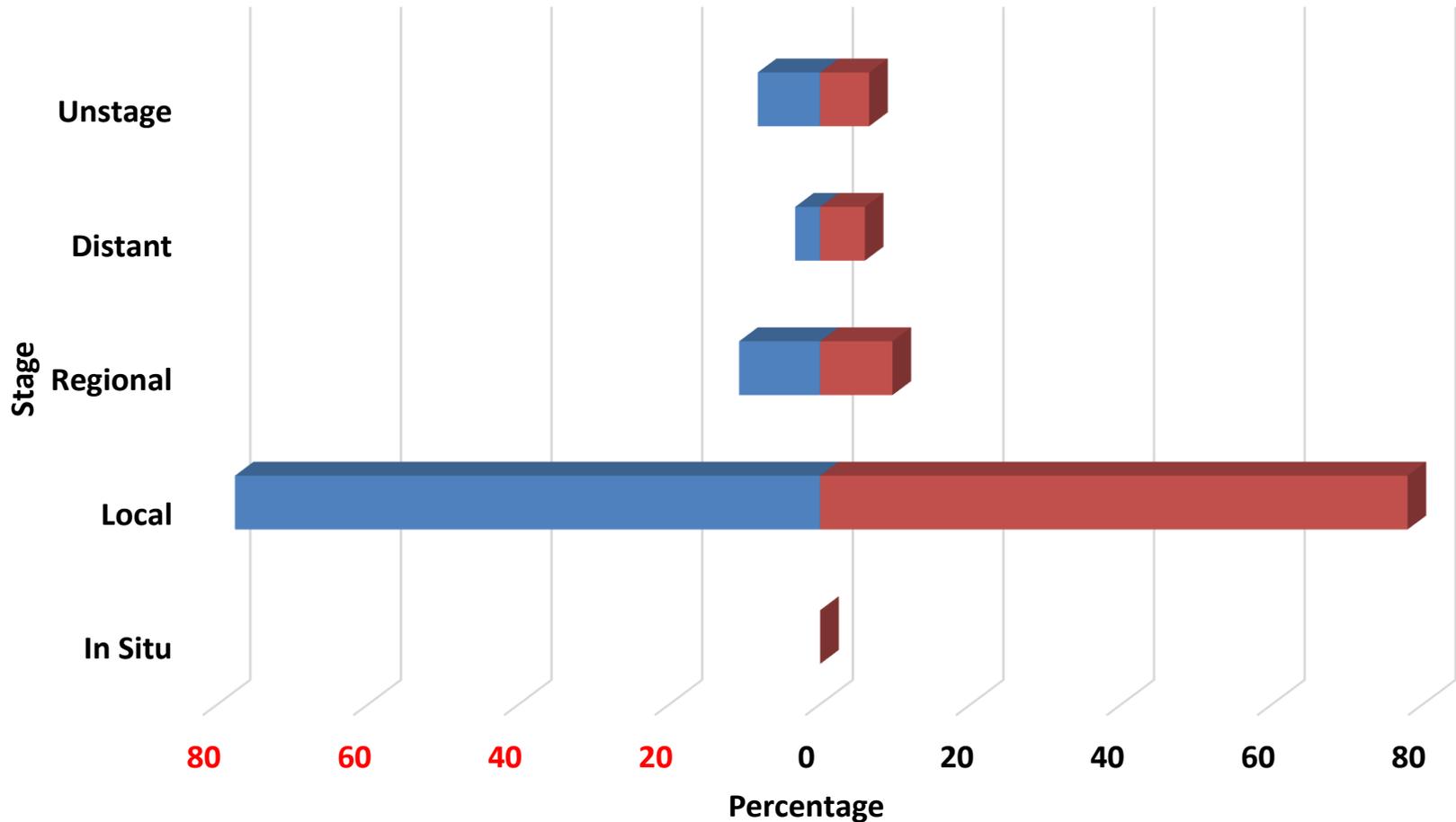
55% of Lung and Bronchus Cancer are diagnosed at Distant Stage

Breast Incidence: Stage distribution by race, 2011 - Percentages



69.8% of Breast Cancer are diagnosed at Local and Regional Stage

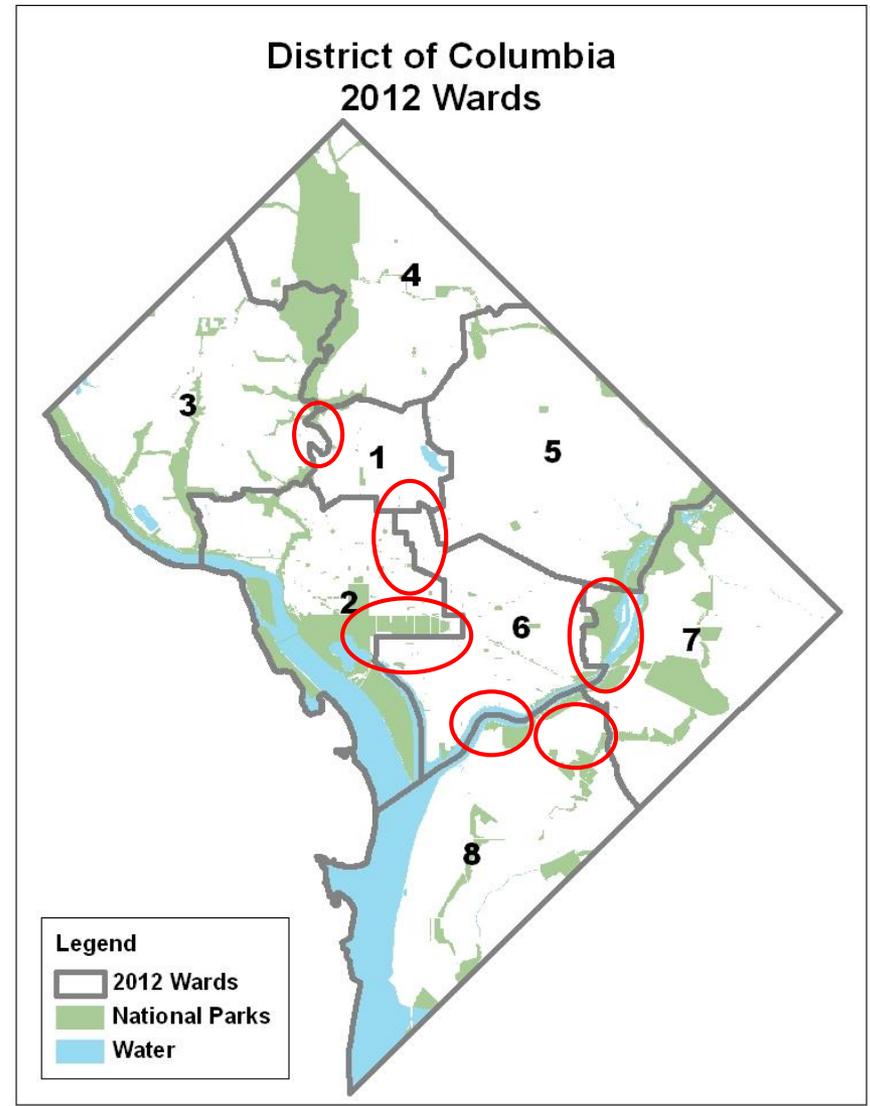
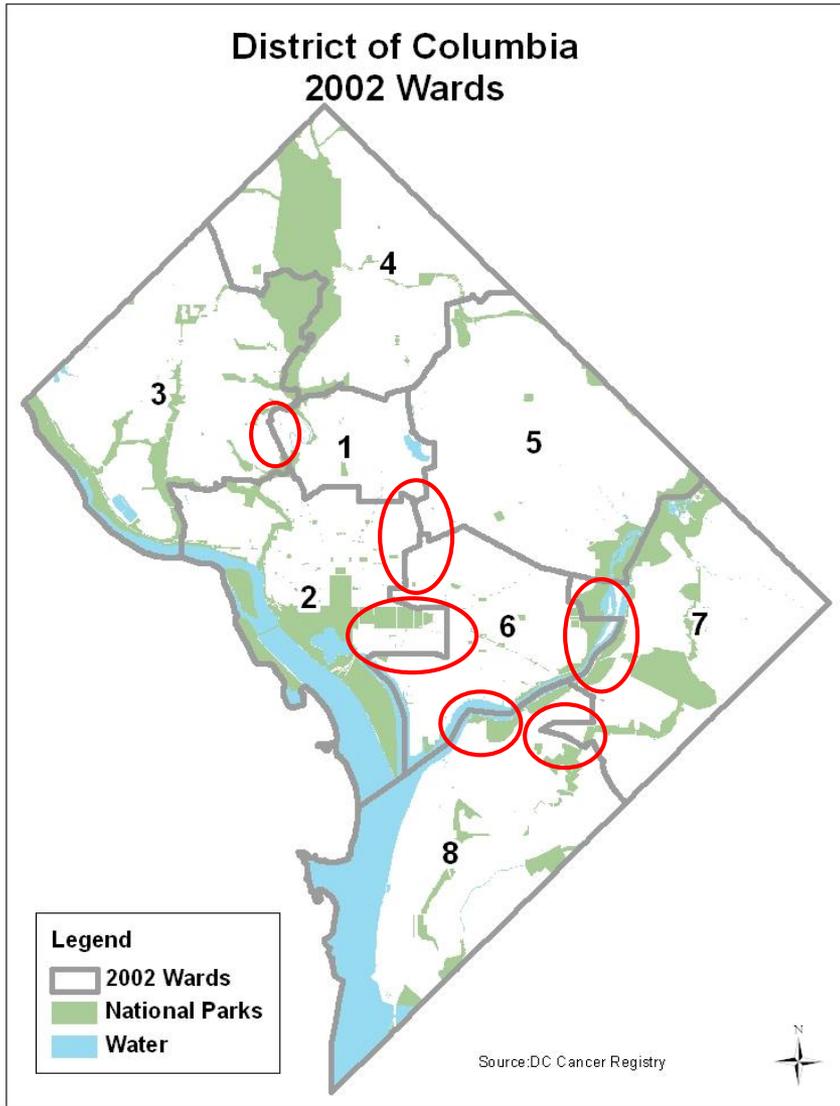
Prostate **Incidence**: Stage distribution by race, 2011 - Percentages



■ White ■ Black

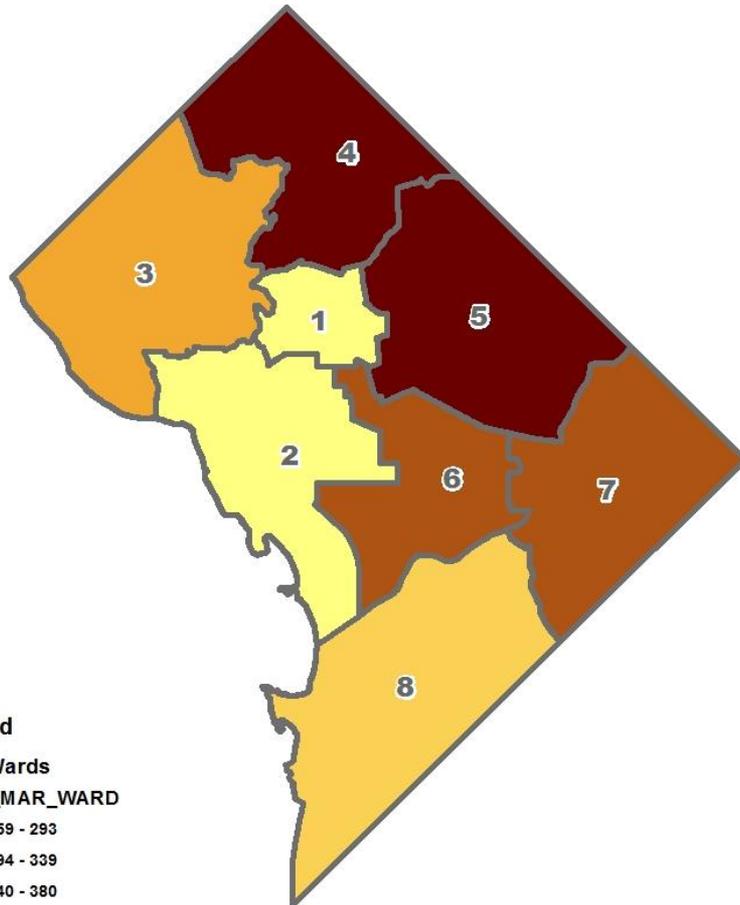
77.9% of Prostate Cancer are diagnosed at Local Stage

Census Tracts 2000 and 2010



All Sites Combined

Incidence for All Cancer Sites Combined by Wards
Cases diagnosed during 2011



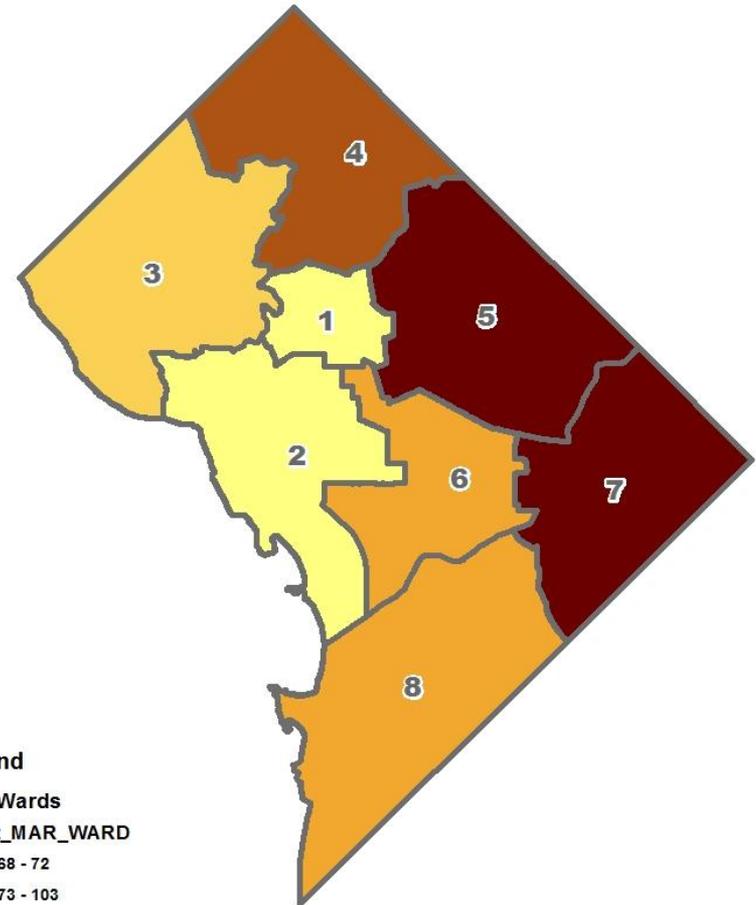
Legend
2012 Wards
Count_MAR_WARD

259 - 293
294 - 339
340 - 380
381 - 417
418 - 496

Source: DC Cancer Registry



Mortality for All Cancer Sites Combined by Wards
Deaths occurred during 2011



Legend
2012 Wards
Count_MAR_WARD

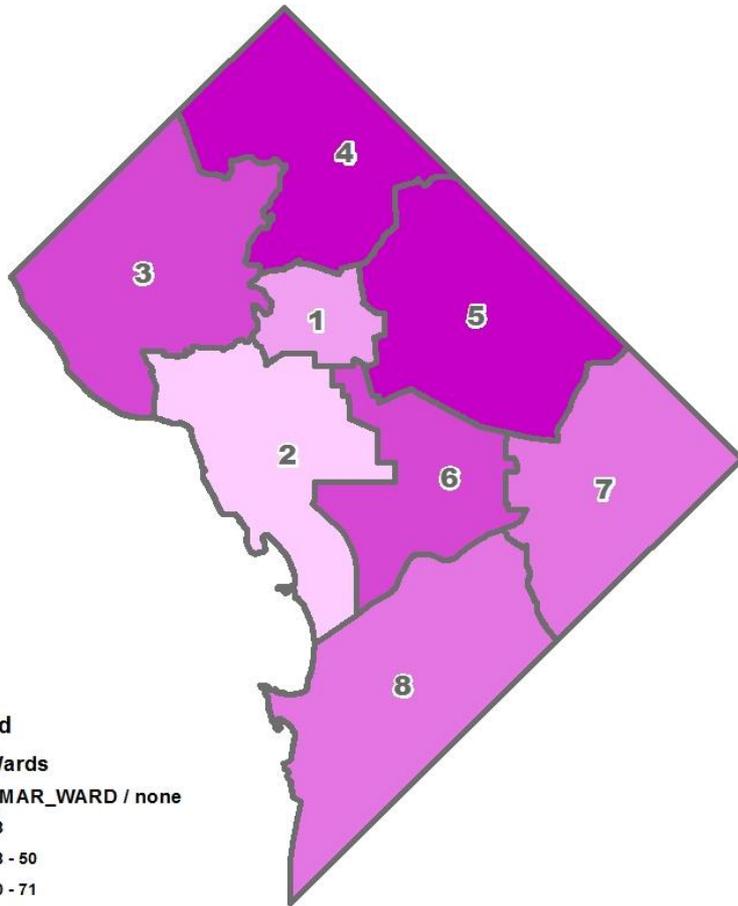
68 - 72
73 - 103
104 - 134
135 - 168
169 - 197

Source: DC Vital Records



Breast

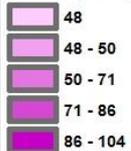
Incidence for Breast Cancer by Wards
Cases diagnosed during 2011



Legend

2012 Wards

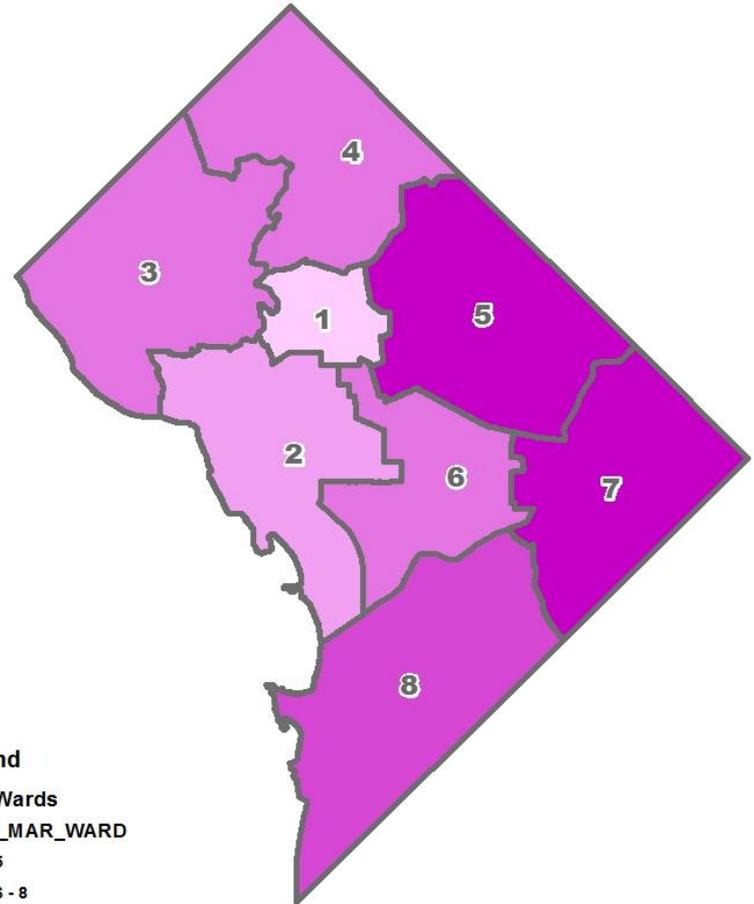
Count_MAR_WARD / none



Source: DC Cancer Registry



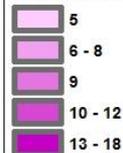
Mortality for Breast Cancer by Wards
Deaths occurred during 2011



Legend

2012 Wards

Count_MAR_WARD

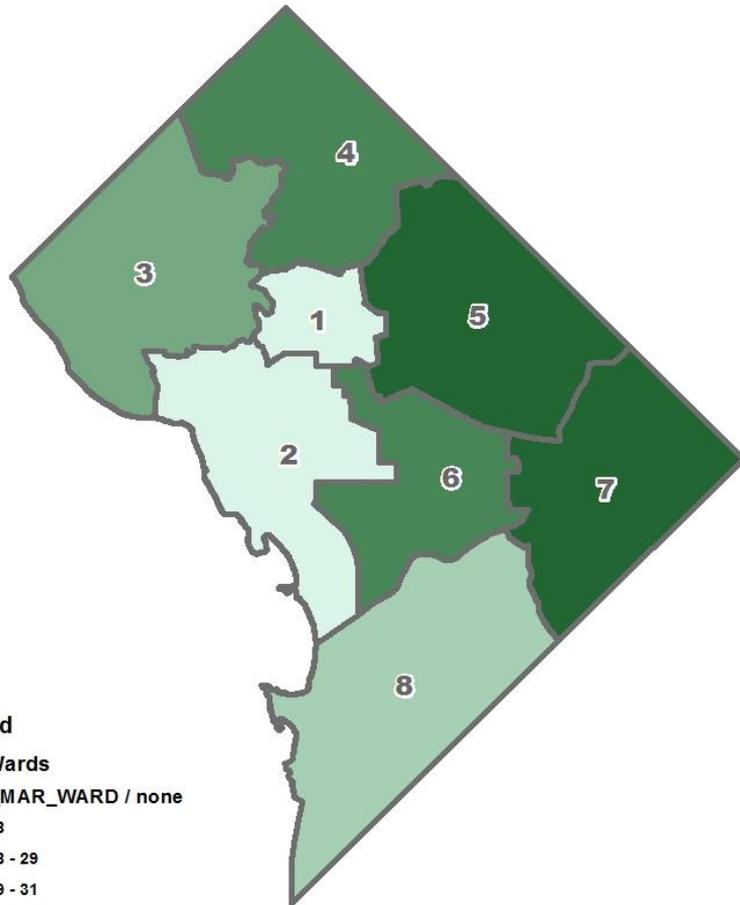


Source: DC Vital Records

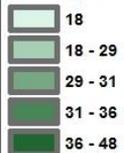


Colorectal

Incidence for Colorectal Cancer by Wards
Cases diagnosed during 2011



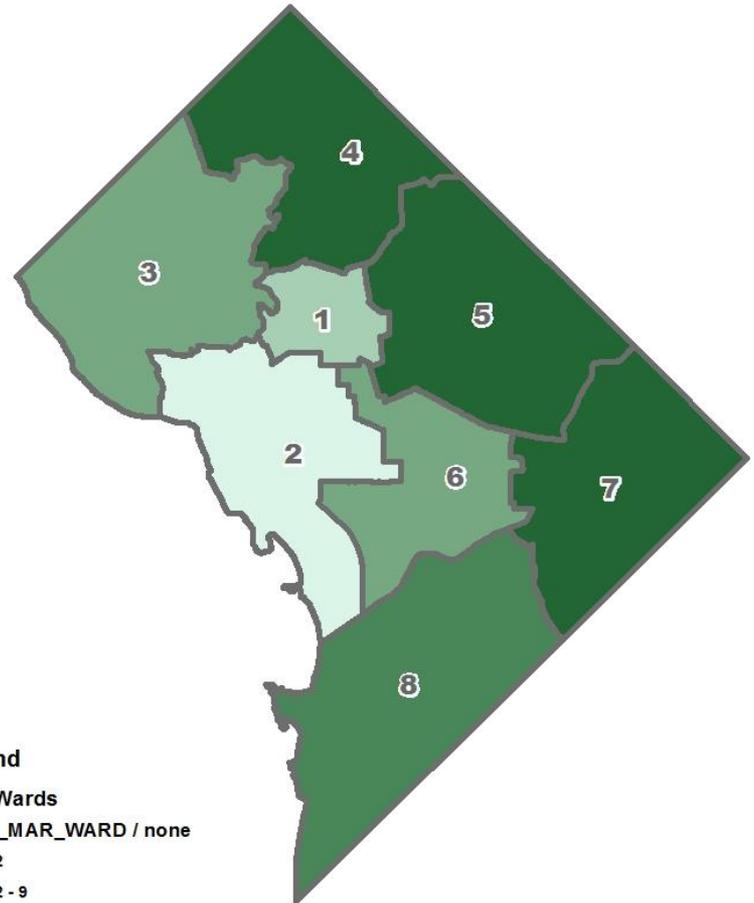
Legend
2012 Wards
Count_MAR_WARD / none



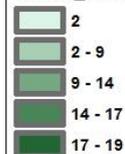
Source: DC Cancer Registry



Mortality for Colorectal Cancer by Wards
Deaths occurred during 2011



Legend
2012 Wards
Count_MAR_WARD / none

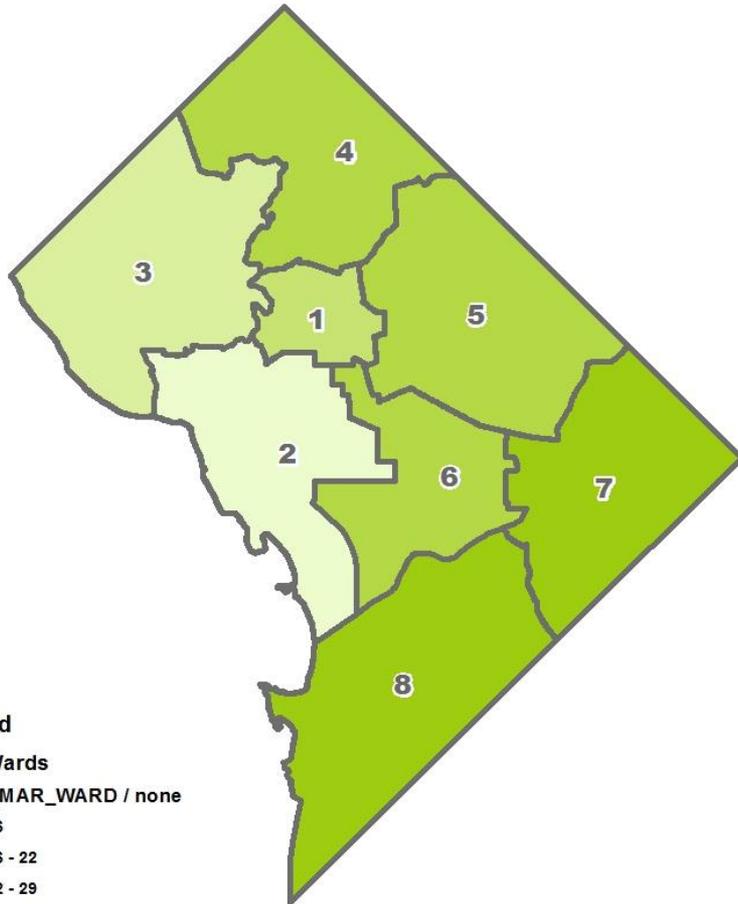


Source: DC Vital Records



Lung and Bronchus

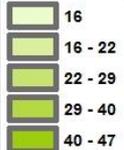
Incidence for Lung and Bronchus Cancer by Wards
Cases diagnosed during 2011



Legend

2012 Wards

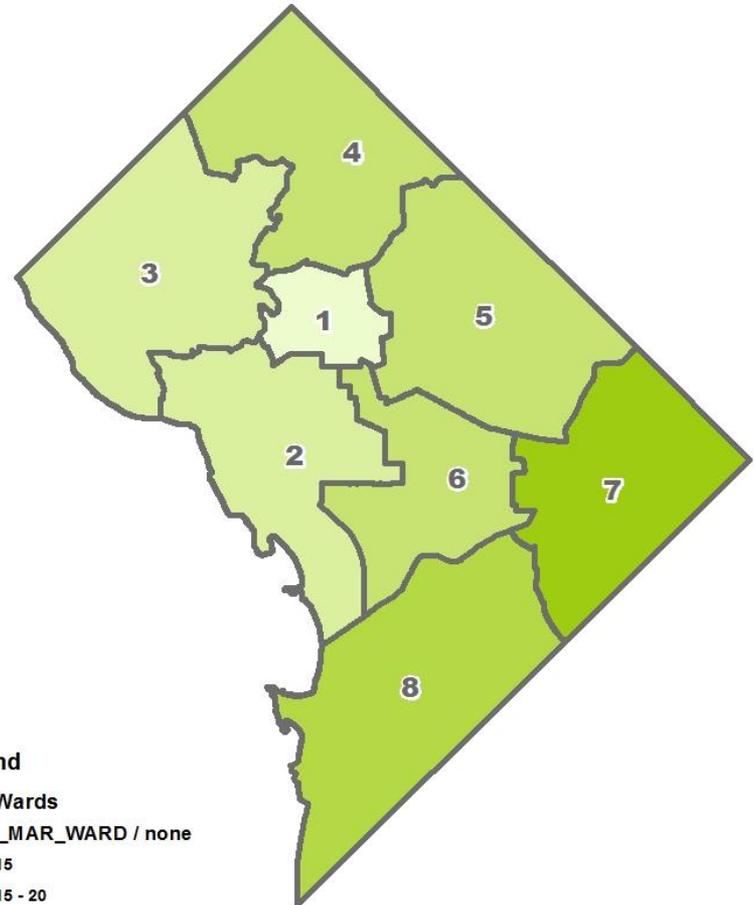
Count_MAR_WARD / none



Source: DC Cancer Registry



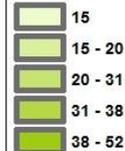
Mortality for Lung and Bronchus Cancer by Wards
Deaths occurred during 2011



Legend

2012 Wards

Count_MAR_WARD / none

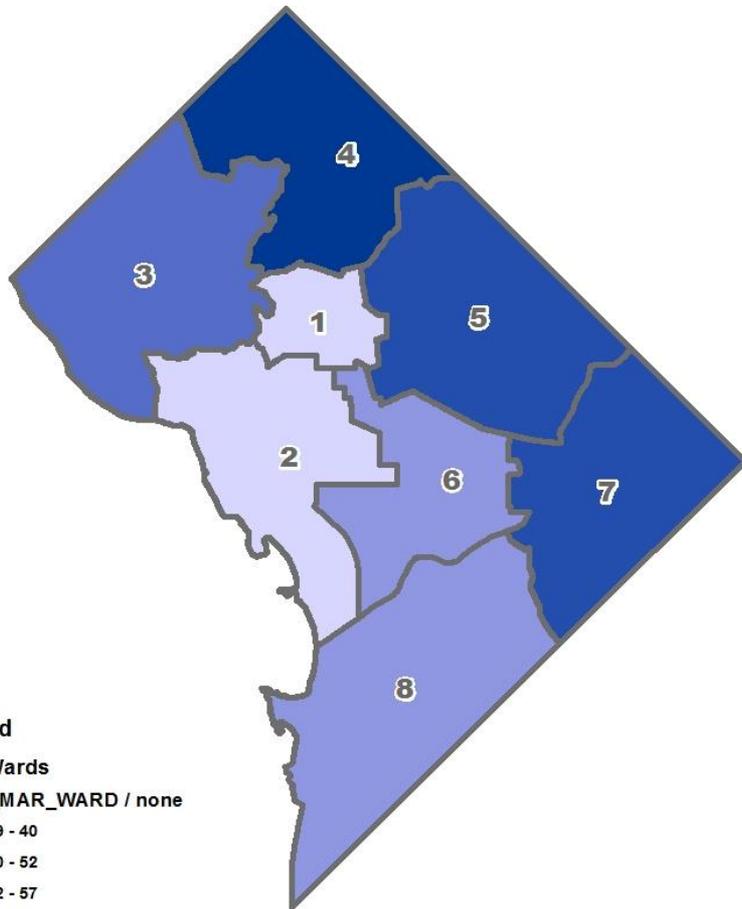


Source: DC Vital Records



Prostate

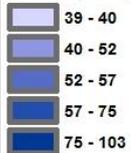
Incidence for Prostate Cancer by Wards
Cases diagnosed during 2011



Legend

2012 Wards

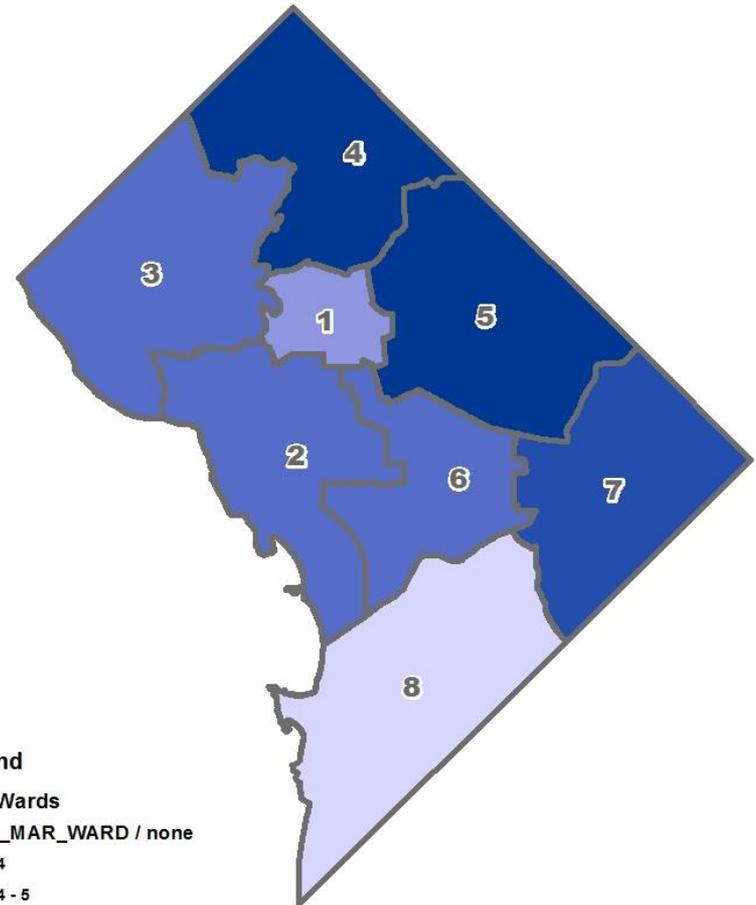
Count_MAR_WARD / none



Source: DC Cancer Registry



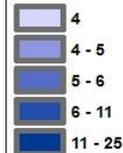
Mortality for Prostate Cancer by Wards
Deaths occurred during 2011



Legend

2012 Wards

Count_MAR_WARD / none



Source: DC Vital Records



Cancer Incidence: Age Adjusted Rates, 2011, DC and *National*

		Both Genders			Male			Female		
		All Races*	White	Black	All Races*	White	Black	All Races*	White	Black
All Sites	DC	509.3	407.0	556.0	584.1	430.9	662.8	459.7	395.4	487.7
	<i>National</i>	453.9	462.1	476.0	509.9	513.0	577.7	414.6	426.9	406.5
Colorectal	DC	43.7	24.6	53.6	50.5	27.6	63.1	38.6	22.6	46.9
	<i>National</i>	39.3	38.1	46.7	45.0	43.3	54.3	34.5	33.7	41.4
Lung & Bronchus	DC	55.8	30.0	71.1	69.9	35.0	94.4	45.6	24.2	56.3
	<i>National</i>	55.5	56.4	64.5	64.8	64.4	85.2	48.6	50.6	51.0
Breast	DC							153.1	155.3	153.2
	<i>National</i>							129.5	132.5	126.6
Prostate	DC				195.0	124.2	229.0			
	<i>National</i>				139.8	133.3	214.8			

All rates are age adjusted per 100,000 men and women (only women in Breast and only men in Prostate) and include invasive cases only.

* Includes White, Black and other races.

All ages included.

Source: DC Cancer Registry, *National SEER9 Incidence*.

Cancer Mortality: Age Adjusted Rates, 2011, DC and *National*

		Both Genders			Male			Female		
		All Races*	White	Black	All Races*	White	Black	All Races*	White	Black
All Sites	DC	180.6	111.0	225.7	211.4	132.5	269.6	162.1	93.3	200.8
	<i>National</i>	168.7	168.4	199.2	204.2	203.2	253.9	143.4	143.3	166.1
Colorectal	DC	19.3	8.2	25.9	18.9	9.8	25.5	19.7	7.5	26.3
	<i>National</i>	15.1	14.6	21.1	18.0	17.5	26.2	12.7	12.3	17.7
Lung & Bronchus	DC	40.4	24.2	51.4	48.5	24.3	66.9	34.5	22.8	41.8
	<i>National</i>	46.0	46.7	49.3	57.8	57.8	70.0	37.0	38.1	35.4
Breast	DC							26.3	20.7	31.1
	<i>National</i>							21.5	20.9	30.1
Prostate	DC				37.0	21.5	47.5			
	<i>National</i>				20.7	19.2	44.0			

All rates are age adjusted per 100,000 men and women (only women in Breast and only men in Prostate).

* Includes White, Black and other races.

All ages included.

Source: [DC Cancer Registry](#), [NCHS Mortality](#).

**CANCER INCIDENCE BY SEX, RACE AND STAGE OF DIAGNOSIS FOR THE MOST COMMON CANCER SITES
FOR DC RESIDENTS - 2011 - NUMBER OF CASES**

SITE	PERCENT	TOTAL	SEX		RACE			STAGE				
			MALE	FEMALE	WHITE	BLACK	OTHER	IN SITU	LOCAL	REGIONAL	DISTANT	UNKNOWN
BREAST	19.7	639	7	632	214	393	25	141	285	156	32	18
PROSTATE	15.7	529	529	0	121	354	37	0	399	49	25	39
LUNG	9.2	329	155	144	50	242	7	~	54	55	164	25
COLON	6.8	273	138	135	62	196	15	24	95	76	50	28
BLOOD SYS	4.6	149	78	71	53	86	10	0	~	0	146	~
SKIN	3.4	111	71	40	100	9	~	43	35	6	~	25
KIDNEY	3.0	96	62	34	27	66	~	0	63	16	16	~
CORP UTERI	2.8	91	0	91	21	67	~	~	50	18	13	7
LIVER	2.8	90	62	28	9	79	~	0	33	19	25	13
PANCREAS	2.7	87	45	42	16	69	~	0	8	23	48	8
BLADDER	2.7	87	59	28	33	50	~	38	35	~	5	5
THYROID	2.7	87	20	67	31	42	14	0	65	19	~	~
LYMPH NODE	2.5	80	45	35	27	49	~	0	16	14	47	~

Technical Notes for DC Cancer Registry

- All Counts and Rates are for **DC residents only**.
- Rates are per 100,000 persons and are age-adjusted to the 2000 U.S. standard population.
- Incidence Age-adjusted rates calculated on **invasive cancers only**.
- Only Black and White races are presented, due to the small number of cases or deaths in other races, same criterion applies to Hispanic.
- All races includes White, Black and other races.
- Breast refers to **Female Breast only**.
- Selected sites refers to **top four cancer sites**.
- ~ Information not shown for small number of cases or deaths.
- ~ Statistic (rates) not calculated for small number of cases or deaths.
- Census tracts and Wards not include unknown, incomplete, incorrect addresses and PO Boxes for cancer cases or cancer deaths.
- **Wards** - Political subdivisions of the District of Columbia, created for the purpose of voting and representation. Ward boundaries were first established in 1801 and are updated every ten years, based on population changes reported by the U.S. Census Bureau.
- **Deaths** - Cancer deaths are based on information from all death certificates in the District of Columbia and neighboring states, and processed by the National Vital Statistics System (NVSS) at the National Center for Health Statistics (NCHS) and the State Center for Health Statistics in DC.
- **Source for Incidence:** District of Columbia Cancer Registry.
- **Source for Mortality:** State Center for Health Statistics, Vital Records.

Acknowledgements

The DC Cancer Registry and the DC Comprehensive Cancer Control Program wish to express their gratitude to the following for their supports:

- We would like to thank the cancer registrars throughout the district who abstract and submit data to the central registry. Without their data, this document would not have been possible.
- We appreciate the Center for Policy, Planning and Evaluation/State Center for Health Statistics/DC Vital Records for providing mortality information. Without their data, cancer mortality would not have been possible.
- We are grateful to the Cancer Advisory Board members for their guidance.
- The DC Cancer Registry wishes to acknowledge the Centers for Disease Control and Prevention (CDC) for its financial support under Cooperative Agreement #U5-8DP000846-05.

