

Latest<sup>1</sup> Incidence Rates<sup>2</sup> for United States  
All Cancer Sites  
All Races (Includes Hispanic), Both Sexes, All Ages  
2004 (SEER areas 2005)



## Is Maryland a High Cancer Incidence State?

Diane M. Dwyer, MD  
Medical Director  
Center for Cancer Surveillance and Control  
Maryland Dept. of Health and Mental Hygiene  
February 26, 2009

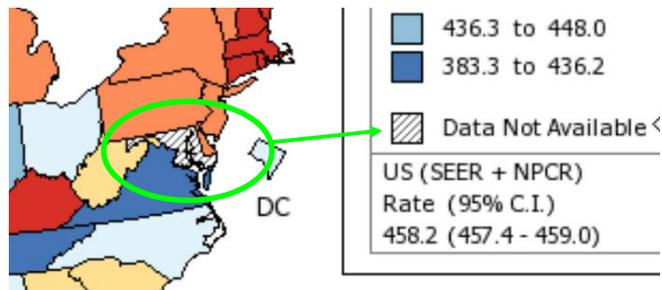
## Contact Information

Maryland Dept. of Health and Mental Hygiene

Center for Cancer Surveillance and Control  
<http://www.fha.state.md.us/cancer/index.cfm>

Data and Reports  
[http://www.fha.state.md.us/cancer/surv\\_org.cfm](http://www.fha.state.md.us/cancer/surv_org.cfm)  
[http://www.fha.state.md.us/cancer/surv\\_data-reports.cfm](http://www.fha.state.md.us/cancer/surv_data-reports.cfm)

Maryland Cancer Registry  
Maryland Cancer Registry  
201 West Preston Street  
Room 404  
Baltimore, MD 21201  
410-767-4055  
[ddwyer@dnhm.state.md.us](mailto:ddwyer@dnhm.state.md.us)  
[kstern@dnhm.state.md.us](http://www.fha.state.md.us/cancer/mcr_home.cfm)  
[http://www.fha.state.md.us/cancer/mcr\\_home.cfm](http://www.fha.state.md.us/cancer/mcr_home.cfm)



Source: [statecancerprofiles.cancer.gov](http://statecancerprofiles.cancer.gov)

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## Is Maryland a High Cancer Incidence State?

**NEW**  
Results from the  
Maryland Cancer Registry

## Cancer Data Sources

### Cancer incidence data:

Maryland Cancer Registry  
Center for Cancer Surveillance and Control  
Department of Health and Mental Hygiene  
201 W. Preston Street, Room 400, Baltimore, MD 21201  
[www.fha.state.md.us/cancer/registry](http://www.fha.state.md.us/cancer/registry), 410-767-4055

### Cancer mortality data:

Maryland Vital Statistics Administration  
Through the CDC WONDER

## Support for the Maryland Cancer Registry

- Maryland State General Funds
- Maryland Cigarette Restitution Fund (CRF) Program
- National Program for Cancer Registries (NPCR), Centers for Disease Control and Prevention, Atlanta, GA

## Acknowledgements

### Maryland Dept. of Health and Mental Hygiene

#### Center for Cancer Surveillance and Control

- Donna Gugel
- **Maryland Cancer Registry**
- Kimberly Stern
- Jennifer Hayes
- Afaq Ahmad
- Delores Rich
- Carolyn Davis-Harris

#### CRF Surveillance and Evaluation Unit

- Carolyn Poppell

#### Vital Statistics Administration

- Isabelle Horon
- Bob Hayman

## Acknowledgements

### Westat

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- Marsha Dunn
- Amy Solis
- Serban Negoita
- Steve Peace

#### Certified Tumor Registrars

- Mary Mesnard
- Donna Calicutt
- Sarah Sherman-VanDeventer
- Deb Haegele
- Alex Barriera
- Pat Weeks-Coulthurst
- Polly Kee
- Sheryl Roberts
- Terry Lewis
- Theresa San Lorenzo-Caswell

#### Info. Technology

- Michael Raithel
- Pat Spray
- Krishna Hari
- Raghav Adimulam
- Lei Fan
- Erika Wilson
  
- Vanessa Ralda

## Acknowledgements

### Reporting Facilities

- Hospitals
- Laboratories
- Radiation Facilities
- Physicians
- Other states

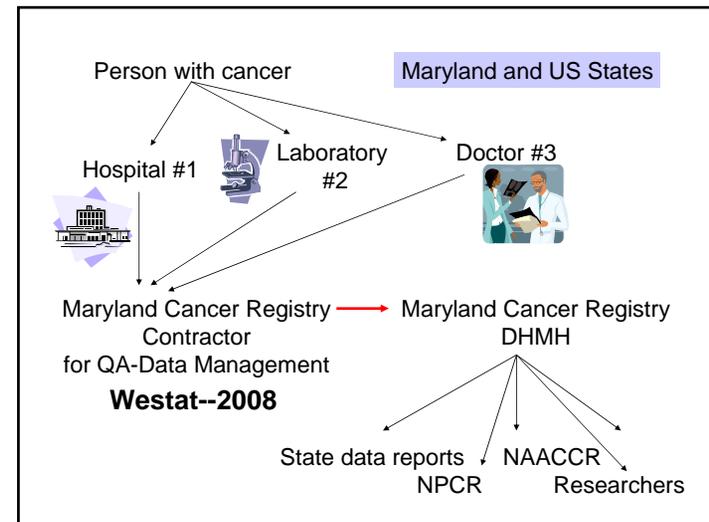
### Cancer Registry Advisory Committee

- Kathryn Farrell, Chairperson

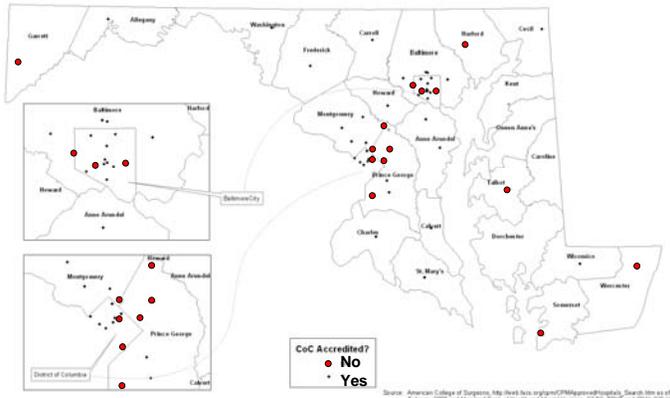
How do we count health events?

## Surveillance for “cancer”

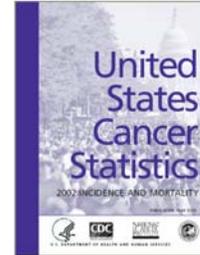
- For cancers diagnosed
  - Count cases of cancer (tumor-level)
  - (Count people with one or more cancers)
- For cancer deaths
  - Count people who died FROM cancer (underlying cause of death)



**American College of Surgeons, Commission on Cancer  
Accreditation of Hospitals in Maryland and DC**



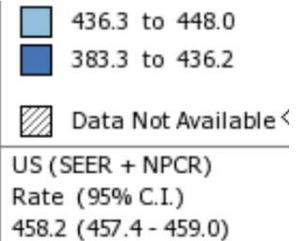
## Registry Certification



- NPCR includes data that are from “high quality” registries in US Cancer Statistics
- <http://apps.nccd.cdc.gov/uscs>

## NAACCR Registry Certification

	Silver 	Gold 
<b>Completeness</b>	90-94% of “expected” number	>= 95% of “expected” number
<b>Passing edits</b>	97%	100%
<b>Death certificate only cases</b>	<=5%	<=3%
<b>Timeliness</b>	Within 23 months	Within 23 months
<b>Duplicates</b>	<=2/1000	<=1/1000
<b>Missing values: Sex, Age, County</b>	<=3%	<=2%
<b>Missing Race</b>	<=5%	<=3%



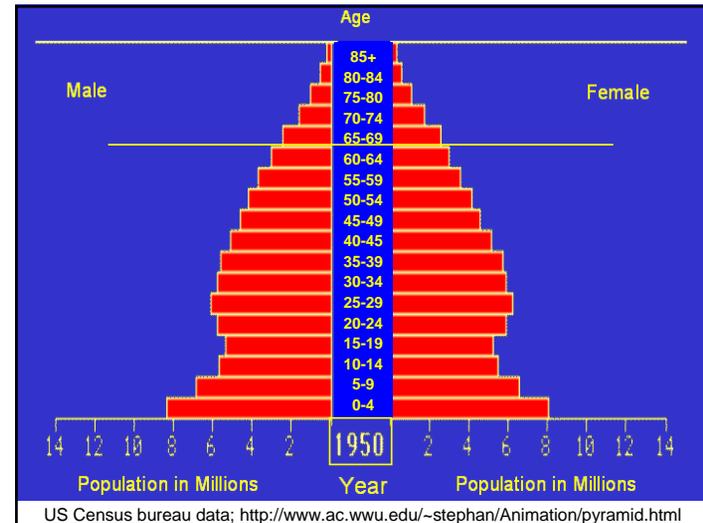
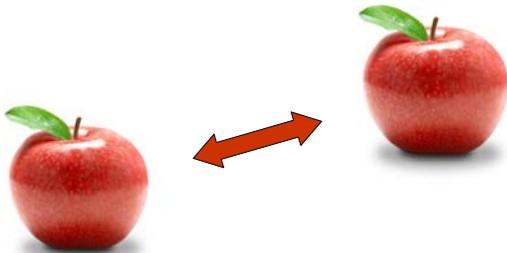
## “Cancer” in Maryland... compared to what?

- The world
- Other similar countries
- The United States
- Other states; other *similar* states
- Maryland
- Jurisdictions *within* Maryland
- What Maryland could be

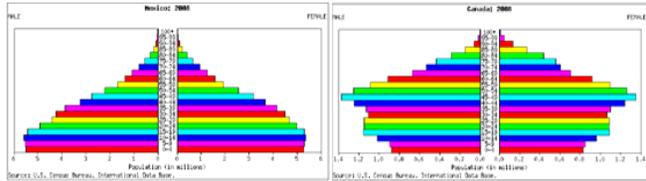


## Specific cancer in Maryland, compared to...

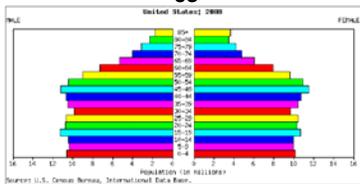
- The world
- Other similar countries
- The United States
- Other similar states
- Maryland
- Other cancers in Maryland
- What Maryland could be



### 2008 Population Pyramids

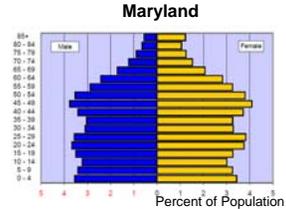


Mexico US Canada

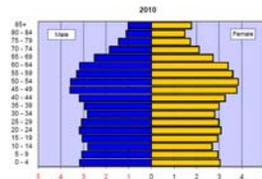


US Census Bureau, International Database

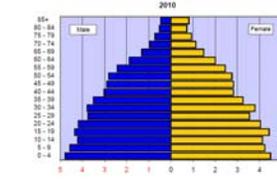
### 2010 Population Pyramids



Florida



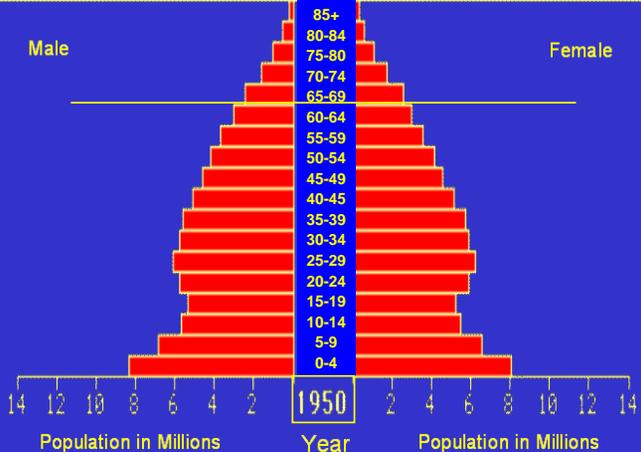
Utah



US Census Bureau, US Population Projections

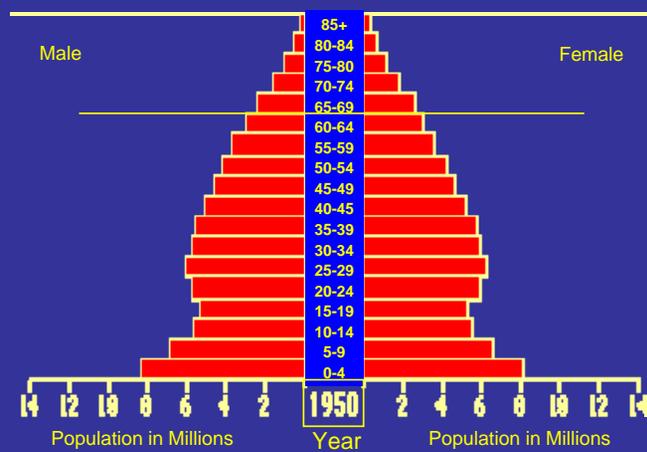
United States

Age



US Census bureau data; <http://www.ac.wvu.edu/~stephan/Animation/pyramid.html>

Age



US Census bureau data; <http://www.ac.wvu.edu/~stephan/Animation/pyramid.html>

The rate of cancer  
(mortality or incidence)  
crude? age-adjusted, standardized?

Trends over time  
Comparisons among states, jurisdictions, populations

The rate of cancer  
(mortality or incidence)  
crude? age-adjusted, standardized?

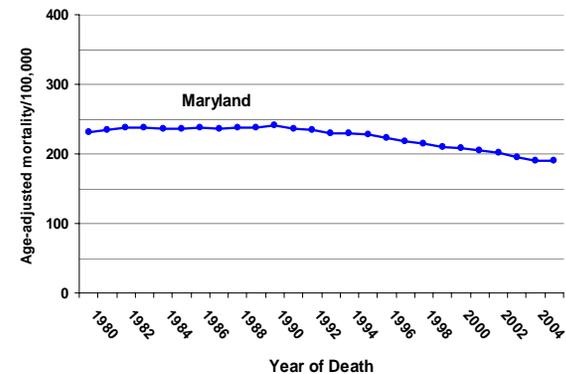
Trends over time  
Comparisons among states, jurisdictions, populations

The number of cases of cancer

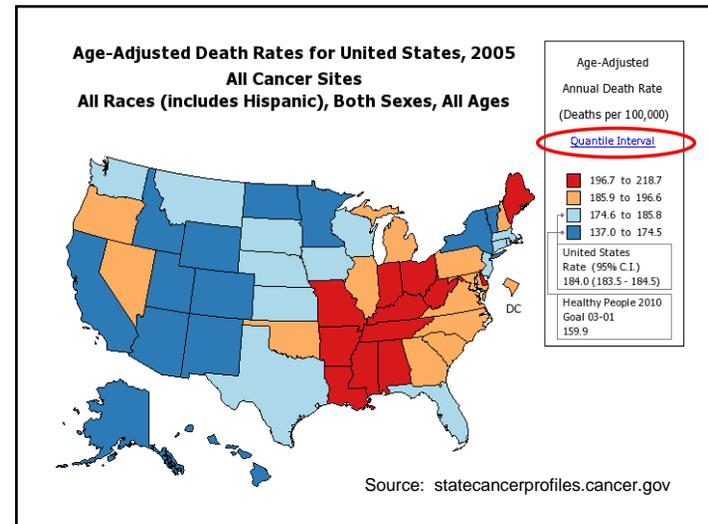
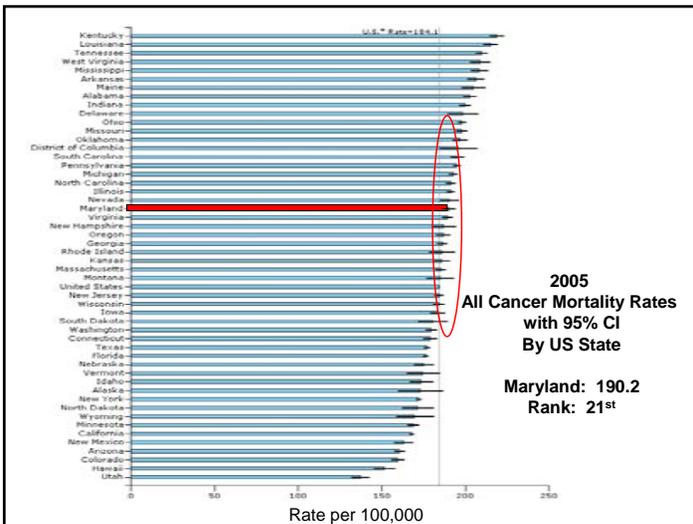
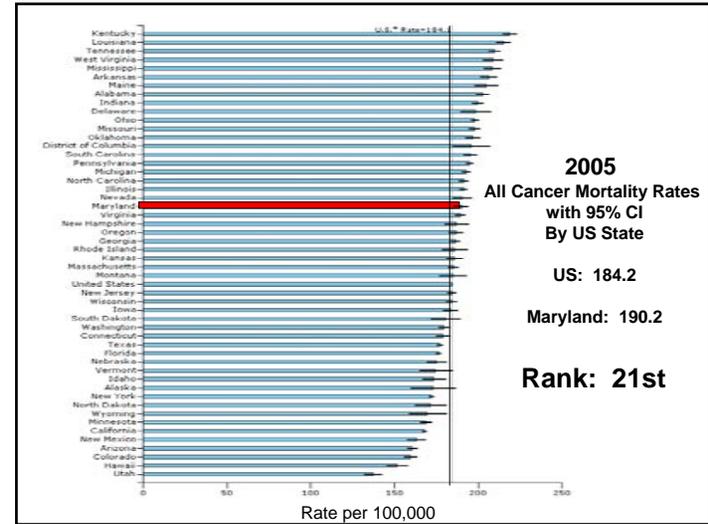
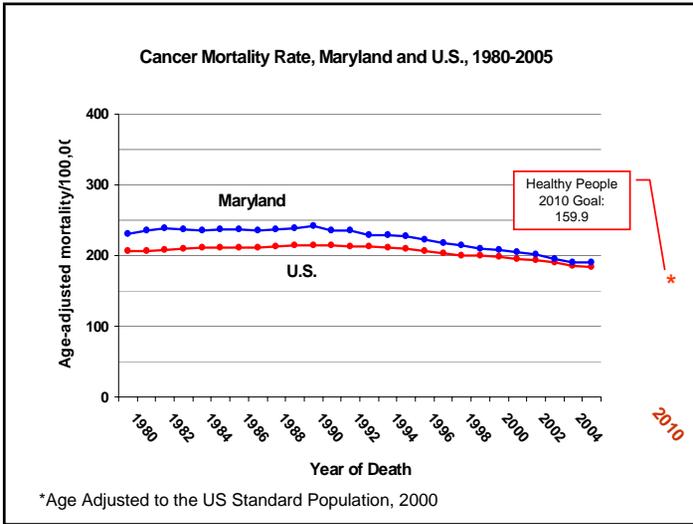
Health care access  
Health care costs  
Planning  
End of life care, etc.

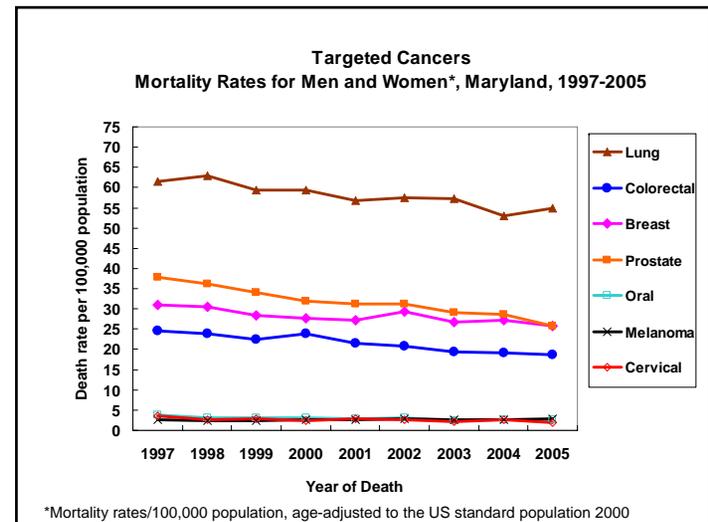
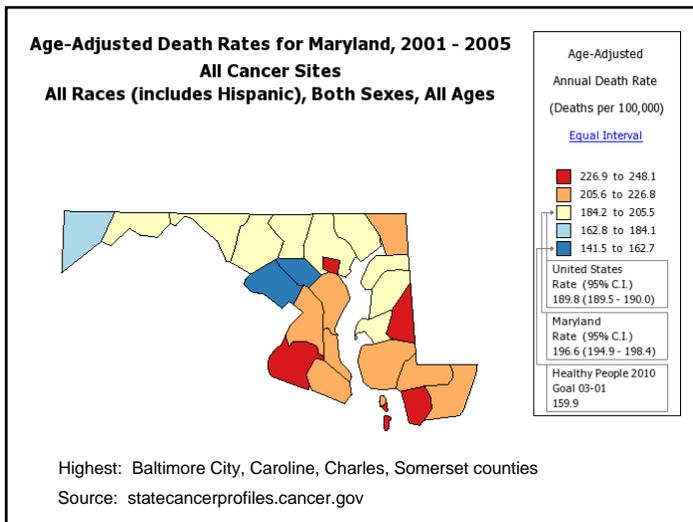
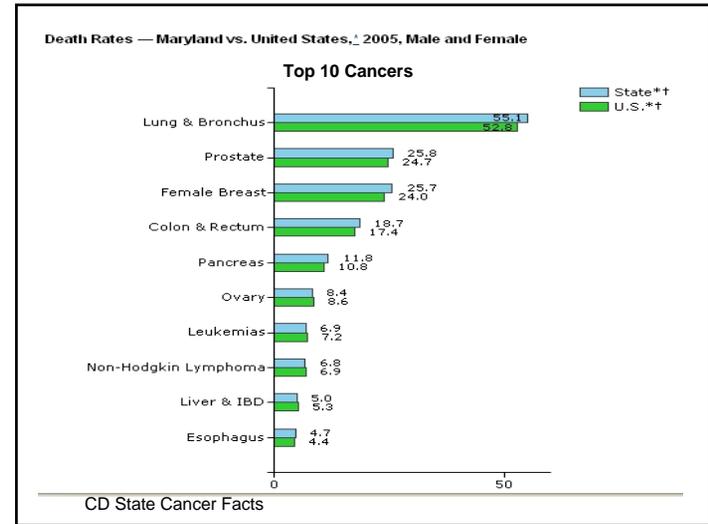
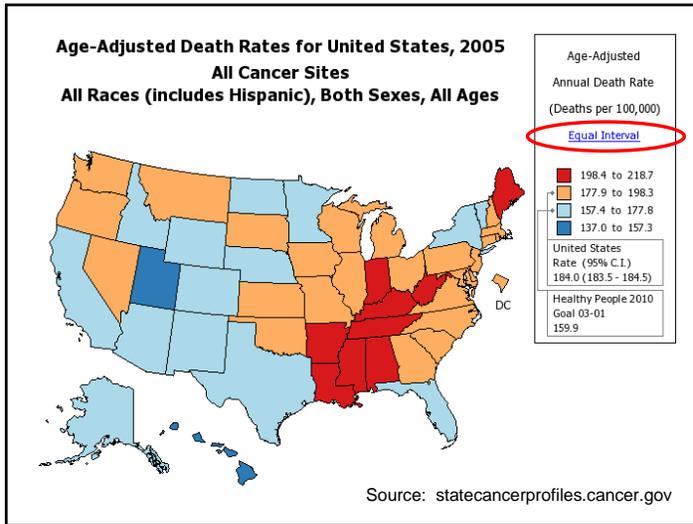
## Cancer Mortality Rates

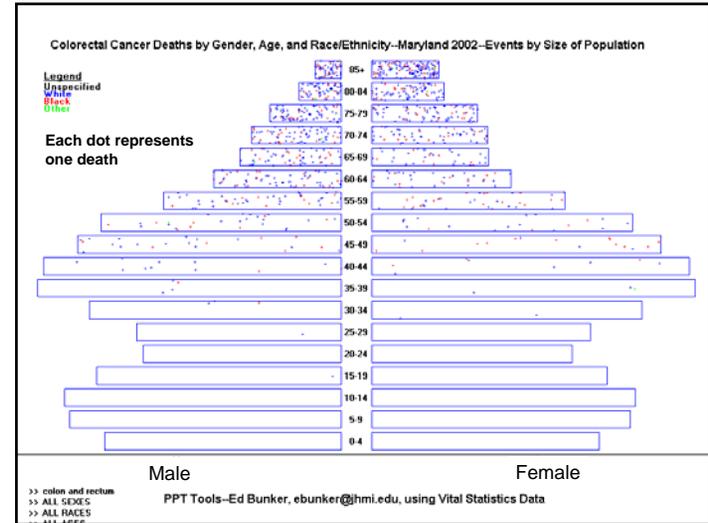
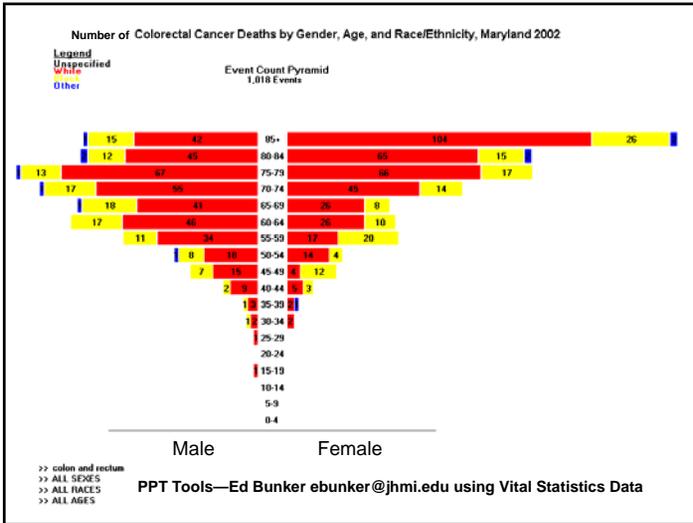
Cancer Mortality Rate, Maryland, 1980-2005



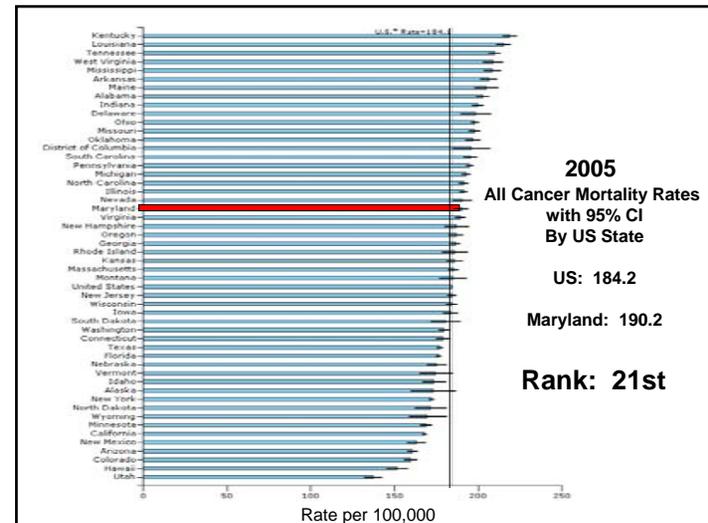
\*Age Adjusted to the US Standard Population, 2000

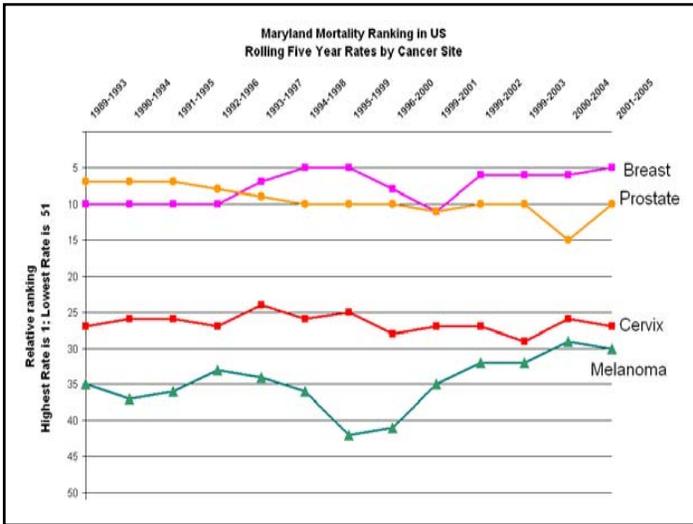
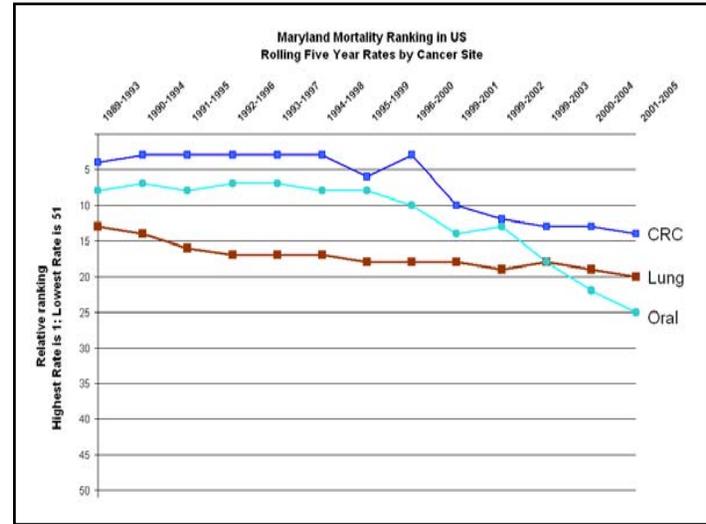
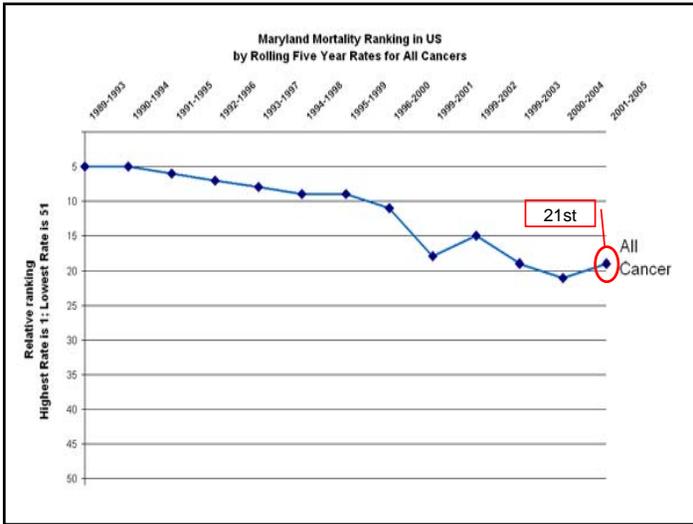




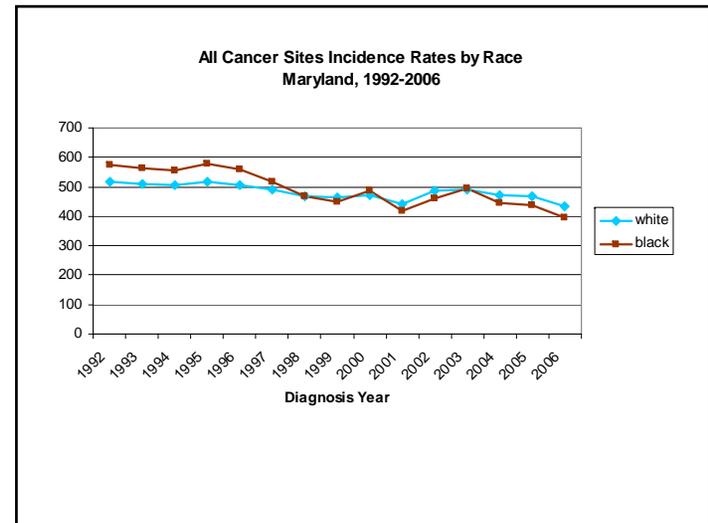
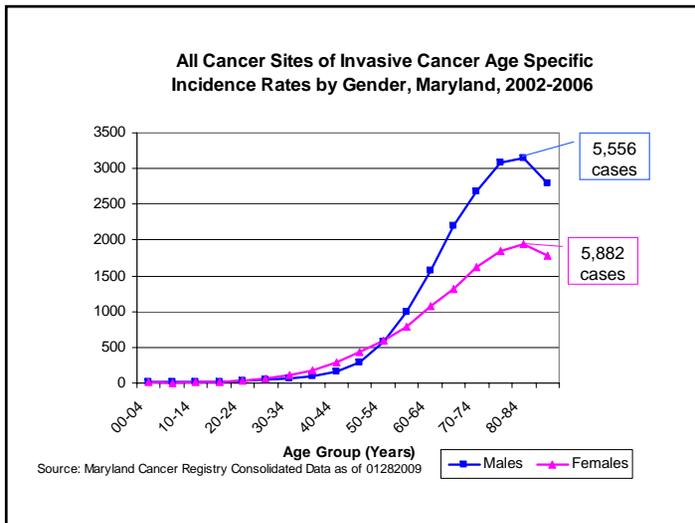
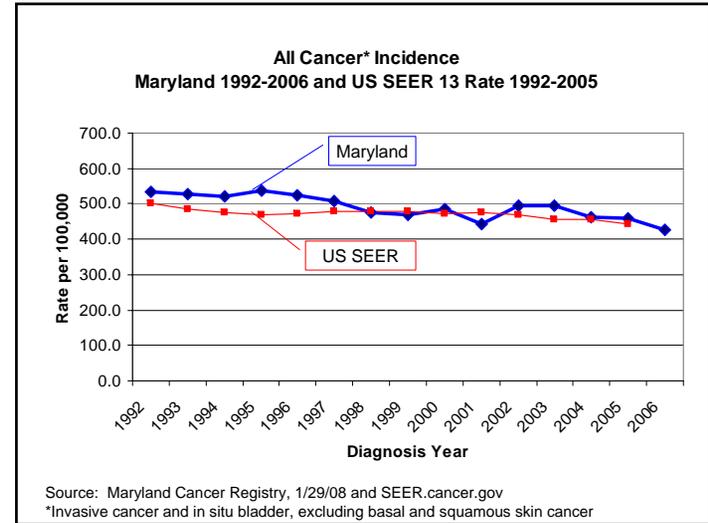
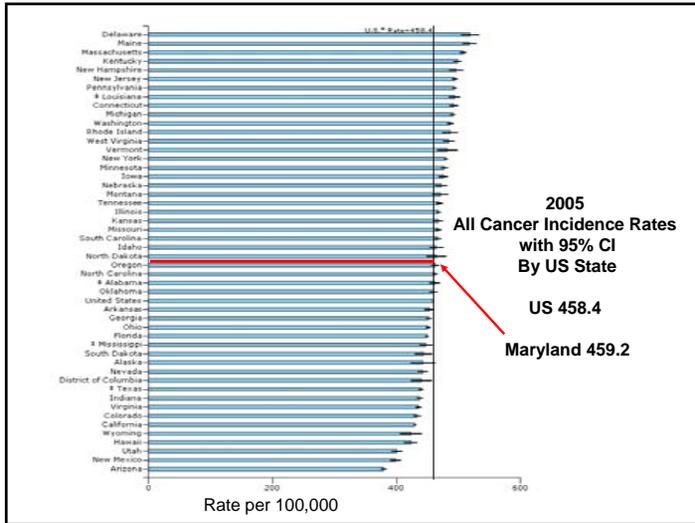


Maryland's **Mortality Ranking** among States

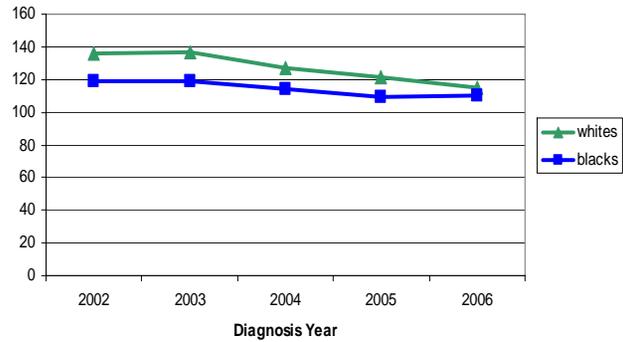




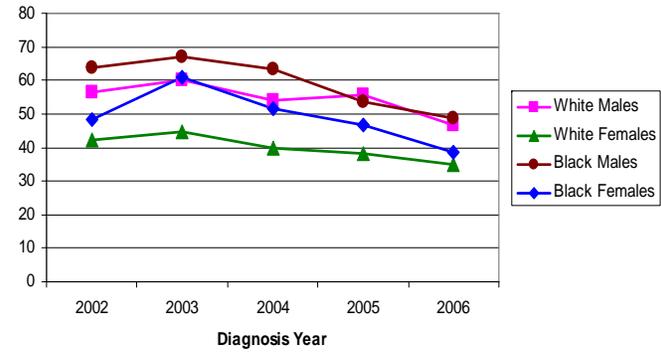
Cancer **Incidence**  
(New cases)



Female Breast Cancer Incidence Rates by Race in Maryland, 2002-2006

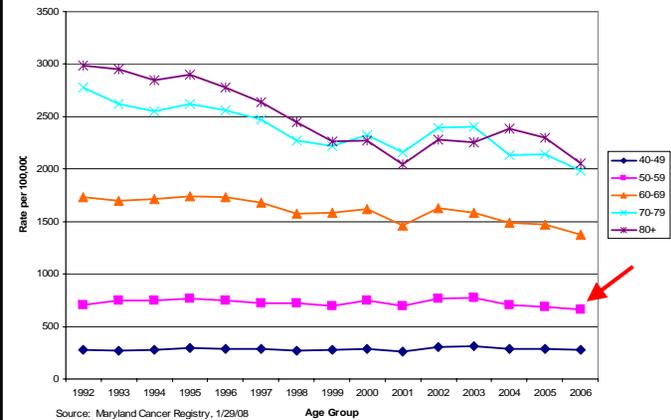


Colorectal Cancer Incidence Rates by Race and Sex in Maryland, 2002-2006



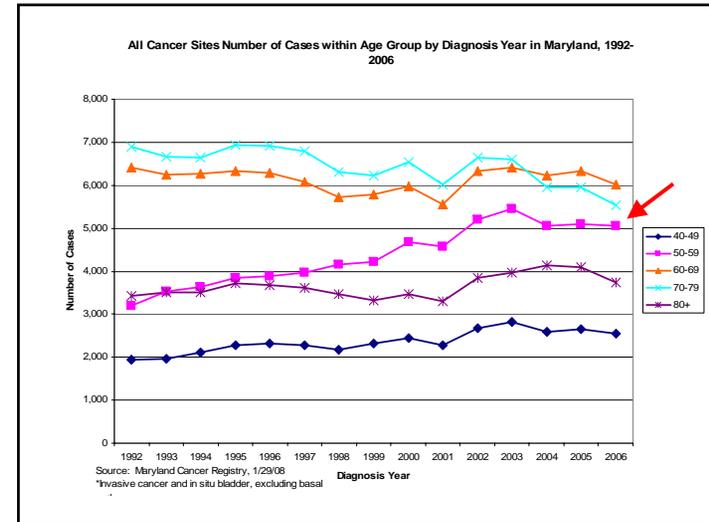
## All Cancer Age-Specific Incidence RATES

All Cancer Sites Incidence Rate by Age Group in Maryland, 1992-2006



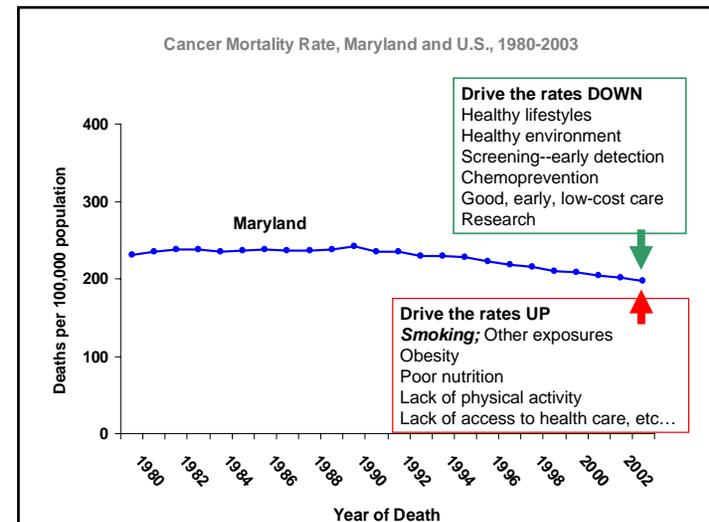
Source: Maryland Cancer Registry, 1/23/08  
\*Invasive cancer and in situ bladder, excluding basal

## All Cancer Age-Specific Incidence NUMBERS

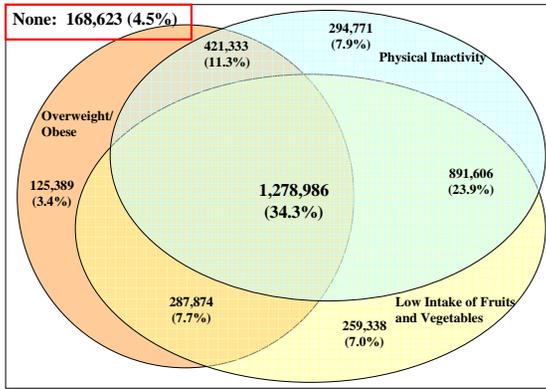


Has Maryland made progress?

**YES!**

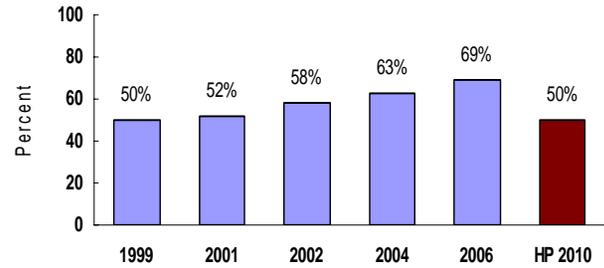


**Low Intake of Fruits and Vegetables, Physical Inactivity, and Overweight/Obese:  
Maryland Adult Weighted Percentages**

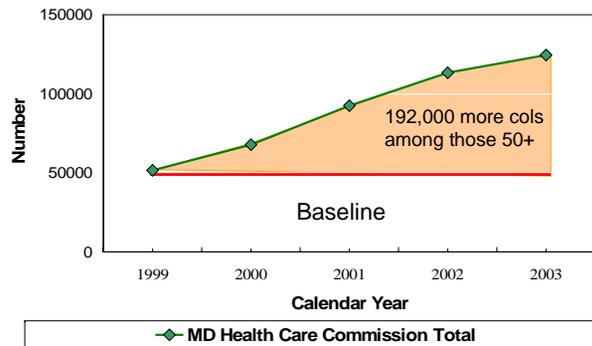


Source: Maryland BRFSS, 2000; Maryland Cancer Plan, page 134

**Percentage of Maryland Adults Age 50 Years and Older  
Ever Having a Sigmoidoscopy or Colonoscopy Screening  
1999, 2001, 2002, 2004, 2006  
Compared to Healthy People 2010 Target**

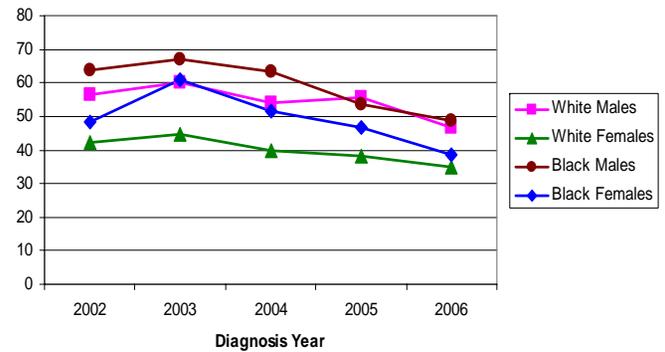


**Number of Insured Patients 50+ Who Had a Colonoscopy  
Maryland, 1999-2003**

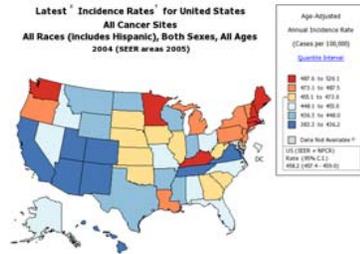
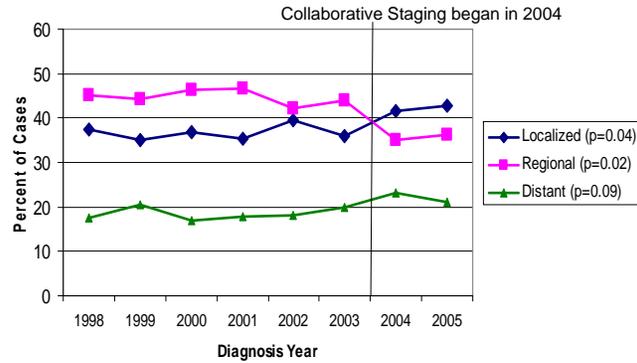


Source: Maryland Health Care Commission—using HEDIS definition of Colonoscopy

**Colorectal Cancer Incidence Rates by Race and Sex in  
Maryland, 2002-2006**



**Percent of Invasive Colorectal Cancer among Those Staged, Reported by Hospitals, Stage by Year of Diagnosis, Maryland**



**Is Maryland a High Cancer Incidence State?**

About average...  
 and still improving!