Cancer Disparity

Satellite Conference and Live Webcast Monday, June 17, 2013 1:00 – 3:00 p.m. Central Time

Produced by the Alabama Department of Public Health Video Communications and Distance Learning Division

Faculty

Windy Dean-Colomb, MD, PhD
Medical Oncologist
Assistant Professor
Interdisciplinary Clinical Oncology
University of South Alabama
Mitchell Cancer Institute
Mobile, Alabama

Objectives

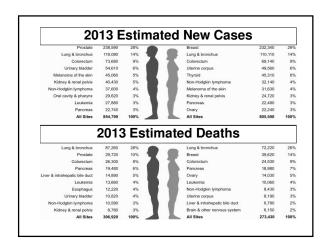
- Discuss cancer disparity and some of its root causes
- Discuss cancer disparities in breast, cervical, prostate, and colorectal cancer
- Discuss avenues to address inequalities in cancer care across the continuum

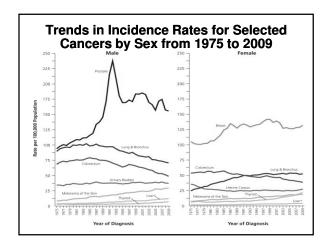
Introduction

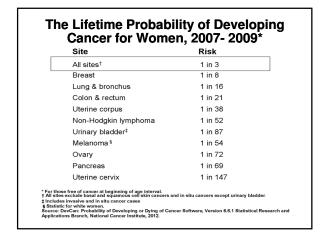
- Cancer is a major public health problem in the United States
 - Estimated that over 1.6 million new cases in 2013
 - -Estimated 580,350 deaths
 - -Corresponds to 1,600 deaths each day

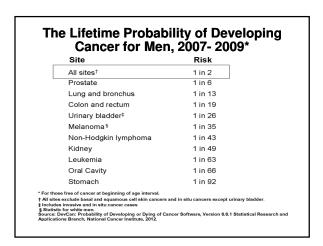
Introduction

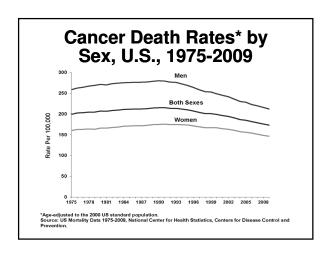
- However, substantial gains have been made:
 - Incidence rates in the most recent
 years have decreased in males
 by 0.6% per year and were stable
 in females
 - Cancer death rates have decreased by 1.8% per year for males and 1.5% per year for females

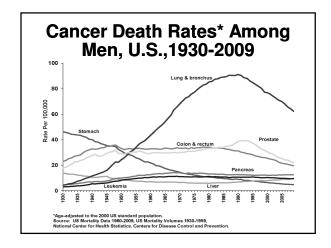


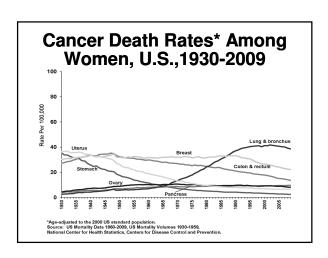


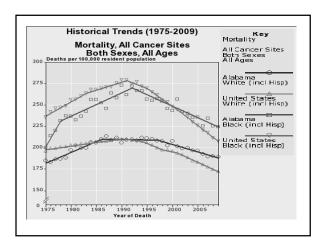










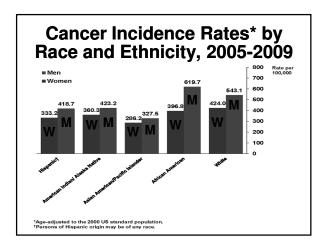


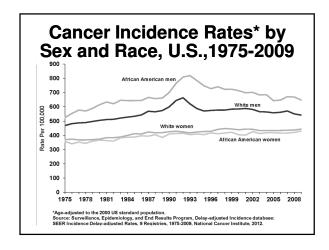
Introduction: Cancer Disparity

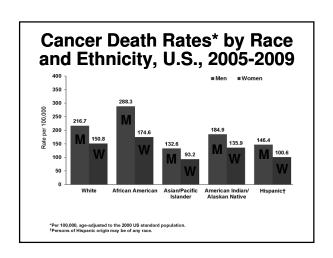
 The NCI defines "cancer health disparities" as "differences in the incidence, prevalence, mortality, and burden of cancer and related adverse health conditions that exist among specific population groups in the United States"

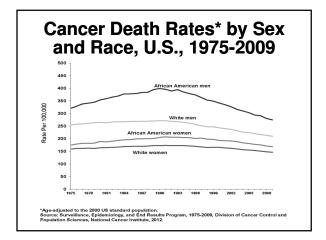
Introduction: Cancer Disparity

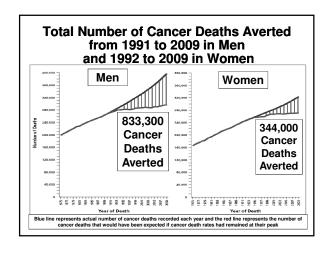
 Despite notable advances in cancer prevention, screening, and treatment, a disproportionate number of the uninsured, minorities, and other medically underserved populations are still not benefiting from such important progress











Trends in Five-year Relative Cancer Survival Rates (%), 1975-2008 Site All sites 49 56 68 Breast (female) 75 84 90 Colon 51 61 65 34 43 58 Leukemia Lung & bronchus 12 13 17 93 Melanoma 82 88 Non-Hodgkin lymphoma 47 51 71 Ovary 43 4 6 Pancreas 2 Prostate 68 83 100 Rectum 68 Urinary bladder 80 5-year relative survival rates based on patients diagnosed from 2002 to 2008, all followed through 2009. Source: SEER Cancer Statistics Review 1975-2009 (SEER 9 registries). National Cancer Institute, 2012.

Rates (%) by F	idoc, z	African	Absolute
Site	White	American	Difference
All Sites	66	58	8
Breast (female)	90	78	12
Colon	64	56	8
Esophagus	18	11	7
Leukemia	55	48	7
Non-Hodgkin lymphoma	69	61	8
Oral cavity	63	42	21
Prostate	100	96	4
Rectum	67	59	8
Urinary bladder	78	64	14
Uterine cervix	69	59	10
Uterine corpus*	84	60	24

Disparity Across the Cancer Spectrum

 Cancer disparity exists across the cancer spectrum from screening to palliative care

Disparity Across the Cancer Spectrum

- Cancer disparity is related to a number of contributing factors related to:
 - -Health care delivery
 - -Patient-related / cultural factors
 - -Socioeconomic factors

Disparity Across the Cancer Spectrum

 To truly address cancer disparity it will take a multi-faceted, communitywide approach

Incidence Rates of Breast Cancer Are Highest in White Women

Per 100,000 population

-White, non-Hispanic: 132.5

-Hispanic: 89.3

- African American, non-Hispanic:

118.3

-Asian and Pacific Islander: 89

-American Indian / Alaskan Native:

69.8

Death Rates from Breast Cancer Highest in African American Women

• Per 100,000 population

-White, non-Hispanic: 23.4

-Hispanic: 15

-African American, non-Hispanic:

-Asian and Pacific Islander: 12.2

-American Indian / Alaskan Native: 15.2

Race / Ethnicity Affects Access to High Quality Treatment

 Compared to whites, blacks are 50% less likely to receive appropriate treatment for breast cancer

American Indians are 70% less likely

Race / Ethnicity Affects Access to High Quality Treatment

Odds ratio of receiving inappropriate treatment

-White, non-Hispanic: 1.0

-Mexican: 1.3

-Black, non-Hispanic: 1.5

-Asian and Pacific Islander: 0.9

-American Indian / Alaskan Native:1.7

African Americans 68% More Likely than Whites to be Diagnosed with Prostate Cancer

• Per 100,000 population

-White, non-Hispanic: 161.4

-Hispanic: 140.8

-African American, non-Hispanic:

255.5

-Asian and Pacific Islander: 96.5

-American Indian / Alaskan Native: 68.2

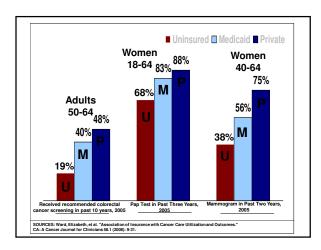
African Americans 2.5 Times as Likely than Whites to Die of Prostate Cancer

- Per 100,000 population
 - -White, non-Hispanic: 22.6
 - -Hispanic: 18.5
 - -African American, non-Hispanic:
 - 53.3
 - -Asian and Pacific Islander: 10.4
 - -American Indian / Alaskan Native:

17.6

Having Insurance Makes a Difference

 Uninsured persons are less likely than privately insured persons to receive timely cancer screenings

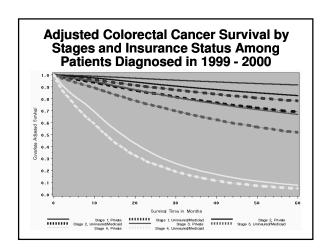


Having Health Insurance Matters

 Uninsured, publicly insured women are three times more likely to be diagnosed with a later stage of breast cancer than privately insured women

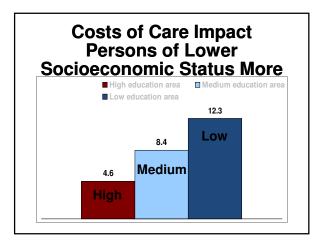
Having Health Insurance Matters

- Likelihood of being diagnosed with Stage III / IV Breast Cancer vs. Stage I Breast Cancer
 - -Private Insurance: 1.0
 - -Uninsured: 2.9
 - -Medicaid: 2.7
 - -Medicare, 65+: 1.2



Costs of Care Impact Persons of Lower Socioeconomic Status More

 Small co-pays for mammography are more likely to deter lower education women from receiving mammograms



Breast Cancer Screening Guides

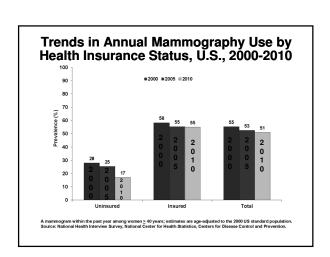
- Annual mammograms beginning at age 40
- Clinical breast exam
 - Ages 20-39 as part of a periodic health exam at least every three years
 - Ages 40+ prior to mammogram as part of a periodic health exam annually

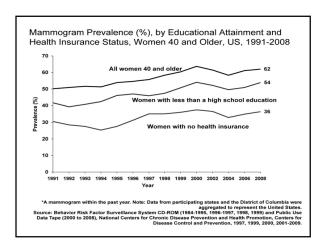
Breast Cancer Screening Guides

- · Breast self-exam
 - -Optional
 - Beginning in their early 20s, women should be told about the benefits and limitations of breast self-examination

Breast Cancer Screening Guides

 -Women should know how their breasts normally feel and report changes to their health care provider





Cervical Cancer Screening Guidelines

- Cervical cancer screening should begin at age 21
- Preferred screening test/s and frequency vary by age:

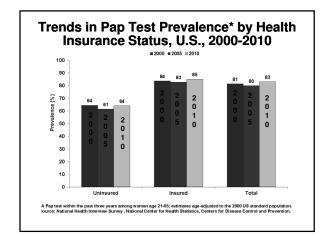
Age	Frequency	Test		
21-29	Every 3 years	Pap test*		
30-65 [†]	Every 5 years	HPV and Pap tests		
* Conventional or liquid-based test + Every 3 years with the Pan test alone is accentable				

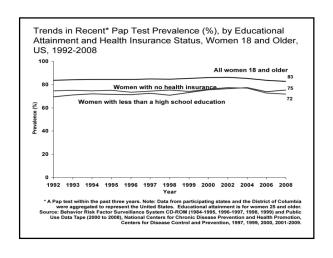
Cervical Cancer Screening Guidelines

- · Women should stop screening:
 - 1. At age 66 with adequate negative prior screening
 - •≥ 3 consecutive negative Pap tests within 10 years
 - -Most recent within 5 years OR

Cervical Cancer Screening Guidelines

- ≥ 2 consecutive negative HPV and Pap tests within 10 years
 - -Most recent within 5 years
- 2. After hysterectomy

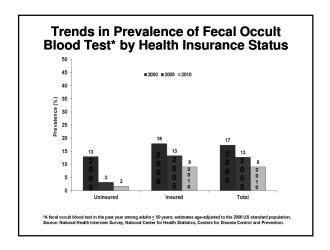


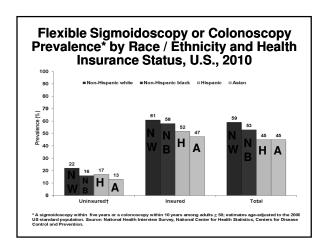


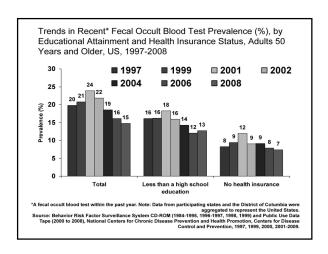
Colorectal Cancer Screening Guidelines*

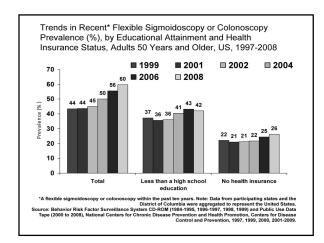
 Beginning at age 50, men and women should follow one of the following examination schedules:

Test	Time Interval			
Fecal occult blood test	Annual			
Flexible sigmoidoscopy	5 years			
Double contrast barium enema	5 years			
Colonoscopy	10 years			
CT Colonography	5 years			
* For people at average risk; individuals at higher risk should talk with a doctor about a different testing schedule				



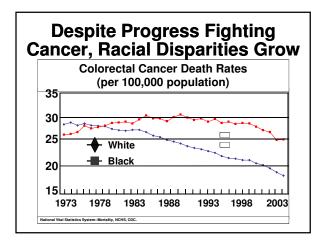






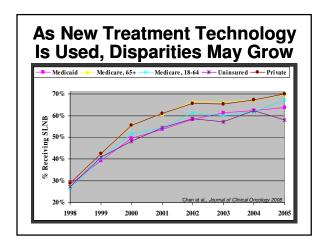
Despite Progress Fighting Cancer, Racial Disparities Grow

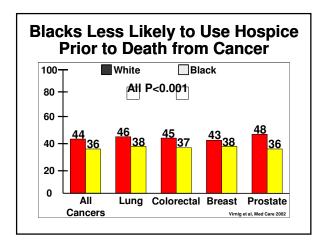
 The difference in black and white colorectal cancer death rates is almost 50 times larger than in 1978



As New Treatment Technology Is Used, Disparities May Grow

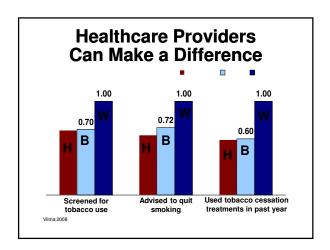
 Disparities in the receipt of sentinel node lymph biopsy by insurance status have grown as the technology has become more popular

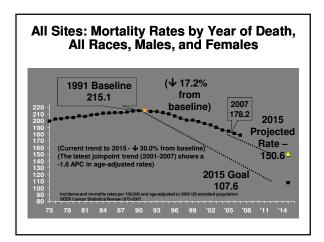


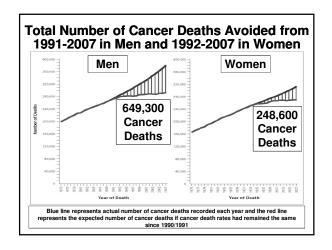


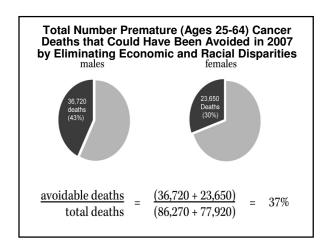
Healthcare Providers Can Make a Difference

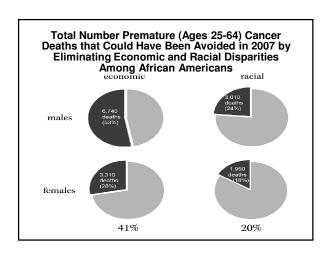
 Racial and ethnic minorities are less likely to be advised to quit smoking

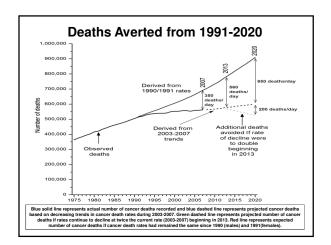












Cancer Disparity

 The consequences of cancer disparities is that cancers are more often diagnosed at later stages when the severity is likely to be greater and options for treatment, as well as the odds of survival, are decreased

Cancer Disparity

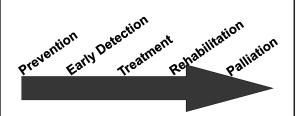
 Thus, eliminating disparities in cancer screening, diagnosis, treatment, and mortality is an essential step toward improved health outcomes for all Americans with cancer

Cancer Disparity

 We cannot hope to address the differences in the burden of cancer in these populations without creative public health interventions that seek to overcome the financial, cultural, geographic, and educational barriers to care

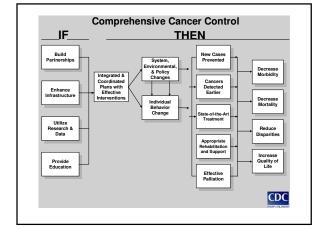
Comprehensive Cancer Control

 Integrated and coordinated approach to reduce cancer incidence, morbidity, and mortality



Comprehensive Approaches to Cancer Control

- Science data or evidence-based agenda
- Infrastructure support
- · Horizontal planning
- Diverse partnerships
- Planned dissemination / institutionalization



Addressing Cancer Disparity

 The consequences of cancer disparities is that cancers are more often diagnosed at later stages when the severity is likely to be greater and options for treatment, as well as the odds of survival, are decreased

Addressing Cancer Disparity

- Have to address some of the root causes
 - -Persistent inequalities in access to care
 - -Socioeconomic barriers
 - -Cultural barriers
 - -Language barriers

Addressing Cancer Disparity

- -Educational barriers
- -Unhealthy environments
- -Racial discrimination

Areas to Address

- Acknowledge that cancer disparities exist
- Provide access to care via affordable insurance for all and adequate funding and infrastructure support to institutions

Areas to Address

- Address barriers to screening by fully funding the National BCCEDP and state programs
- Provide culturally appropriate cancer education to patients
- Provide funding for patient navigator services to increase screening and follow-up

Areas to Address

- Cultural sensitivity training to medical providers and accountability for care
- Building partnership with stakeholders

Alabama Department of Public Health

- Breast and Cervical Cancer Early Detection Program (ABCCEDP)
- FITway
 - -Colorectal cancer screening

Alabama Department of Public Health

- Collaboration with community partners:
 - -Alabama Comprehensive Cancer Control Coalition
 - -University of South Alabama Mitchell Cancer Institute
 - -Joy to Life
 - -American Cancer Society

Conclusion

 Eliminating disparities in cancer screening, diagnosis, treatment, and mortality is an essential step toward improved health outcomes for all Americans with cancer

Conclusion

- Reducing cancer disparities can be achieved by:
 - Instituting cost-effective public health programs that promote overall wellness and save lives
 - Developing community partnerships that allows for costsharing and benefit across the healthcare spectrum

Thank you!