Chronic Disease Management and Health Equity

John Vassall, MD, FACP
Clinical Associate Professor of Medicine and Associate Dean of Clinical Education-Everett campus
Elson S Floyd College of Medicine
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- Elson S Floyd was the first African American president of Washington State University and through his vision the medical school was founded in 2015 to expand medical education and health care access in communities across the state.
John Vassall, MD, FACP

- Bachelor of Science in Bacteriology, Master of Science in Microbiology, Doctor of Medicine
- Board Certified in Internal Medicine (adult medicine) and Fellow of the American College of Physicians
- Past President of the Providence Seattle medical staff
- Former Chief of the Swedish Hospital medical staff
- Former Chief Medical Officer of Swedish Health Services system
- Associate Professor of Medicine and Senior Director of Leadership Faculty, WSU Elson S Floyd College of Medicine
Health disparities and health inequities: definitions

- Health disparities describe the disproportionate burden of disease, disability and death among a particular population or group when compared to the proportion of the population. 

- Health inequities describe disparities caused or perpetuated by policies, structures and acts of omission or commission that are beyond the control of members of the population or group.
Differences

- Health disparities
  - differences that may or may not be subject to mitigation
- Health inequities
  - differences that can be prevented or mitigated
Cancer Care Disparities in Washington State

- Population studied
  - Adult solid tumor patients
  - Diagnosed 2012 - 2014
  - Insured at time of diagnosis
  - Survived at least 30 days after diagnosis

- Metrics
  - Stage at initial diagnosis
  - Quality of initial cancer care
  - Survival at 3 years
Hutchison Institute for Cancer Outcomes Research (HICOR) noted differences based on social determinants of health:

- Race
- Neighborhood socioeconomic disadvantage
  - as measured by the Area Deprivation Index (ADI)
- Rurality of residence
- Travel time to oncologist
How determinants interact and influence care access, quality and outcome

- Stage at diagnosis is influenced by
  - Race: Blacks 20% more likely to have regional spread (positive lymph nodes) and 60% more likely to have distant metastases at diagnosis
  - Distance to care rurality
  - ADI: residents of poorest neighborhoods 20% more likely to have regional spread and 60% more likely to have distant metastases at diagnosis
  - Health insurance type

- Quality of cancer care is further influenced by
  - Health insurance type

- Survival is further influenced by
  - Stage at diagnosis
  - Quality of cancer care
What is Race?

The concept of human races, specifically a Black race developed with the African slave trade in the early 1400s and predates genetic science by more than 200 years.

• The science of genetics and the laws of inheritance which describe the behavior of genes (dominant and recessive) were developed by Gregor Mendel in experiments conducted between 1856 and 1863.


Most studies do not indicate how “Black” is defined (self-identification? Investigator attribution? Other?

Black Americans aggregate every human population under the phenotype of dark skin.
What’s Race Got To Do With It?

• Health disparities
  • differences that may or may not be subject to mitigation
• Health inequities
  • differences that can be prevented or mitigated
Health Inequities

White Women
- Maternal Mortality and Pregnancy Related Mortality: 14.7 deaths/100,000 live births
- Infant Mortality: 4.7 deaths/1,000 live births
- Hypertension prevalence: 25.6%
- Diagnosed with Diabetes: 6.6%
- Overdose Deaths: 21.3 deaths/100,000
- Suicide: 7.9 deaths/100,000

Life Expectancy at birth: 81.0 years

Black Women
- Maternal Mortality and Pregnancy Related Mortality: 37.1 deaths/100,000 live births
- Infant mortality: 10.9 deaths/1,000 live births
- Hypertension Prevalence: 39.9%
- Diagnosed with Diabetes: 12%
- Overdose Deaths: 18.8 deaths/100,000
- Suicide: 2.8 death/100,000

Life Expectancy at birth: 77.9 years

Sources: CDC National Vital Statistics System; National Center for Health Statistics; HHS Office of Minority Health; Journal of Women’s Health; National Center for Health Statistics
SPECIAL ISSUE
NATIONAL GEOGRAPHIC

Black and White
These twin sisters make us rethink everything we know about race

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Questions?
Thank You!