



WASHINGTON STATE UNIVERSITY
Elson S. Floyd
College of Medicine

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

Elson S Floyd College of Medicine

- 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.

WSU

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

Washington State Board of Health

- 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

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Differences

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

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Cancer Care Disparities in Washington State

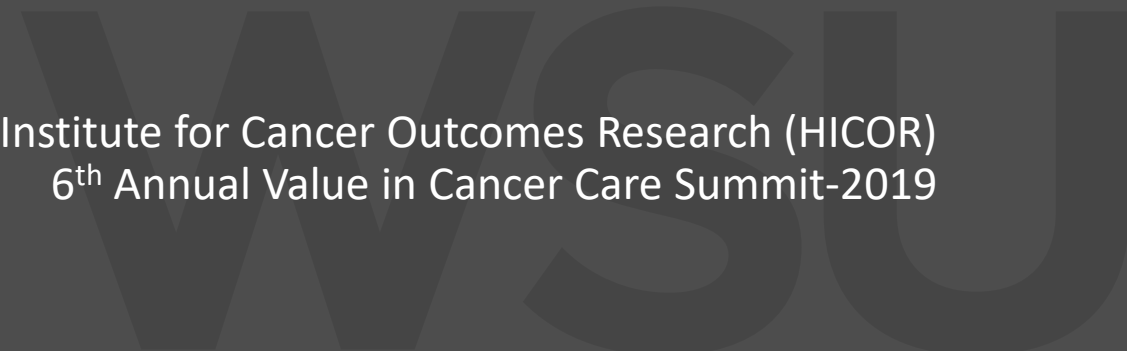


- Population studied
 - Adult solid tumor patients
 - Diagnosed 2012 - 2014
 - Insured at time of diagnosis
 - Survived at least 30 days after diagnosis
- Metrics
 - Stage at initial diagnosis
 - Quality of initial cancer care
 - Survival at 3 years

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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.
- Charles Darwin published his book *Origin of Species* explaining natural selection (evolution) in 1859.

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

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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





SKIN DEEP:
THE SCIENCE
OF RACE

DAWN OF
THE WHITE
MINORITY

US AND THEM:
WHY WE
DIVIDE

DRIVING
WHILE
BLACK

SPECIAL ISSUE

NATIONAL
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Black and White

These twin sisters make us rethink
everything we know about race

APRIL 2018

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Questions?

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Thank You!

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