

Disclosure:

I have no actual or potential conflict of interest in relation to any product or service mentioned in this program or presentation.

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Objectives

- 1.Learn about Racial and Ethnic Disparities
- 2.Understand the factors that affect Health Disparities and Pharmacotherapy
- 3.Review common Chronic disease conditions
- 4. Understand what the clinician's role consists of
- 5.Learn possible solutions

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Racial Disparity-A condition that one racial group systemically and disproportionally experience worse outcomes in comparison to other racial groups.

Health care Disparity-A persistent gap between health status of minorities and non-minorities in the US (per federal gard burden of disease but to increased mortality, morbidity, and burden of disease but to increased mortality, morbidity, and burden of disease but to increased mortality, morbidity, and burden of disease but to increased mortality, morbidity.

Higher rates of illness and death are seen in minority groups in many common chronic conditions

• Houston Chronicle: Texas ranks among worst in the nation for racial health disparities

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Factors that
Contribute to
Healthcare
Disparities

Race and Ethnicity

Socioeconomic Status

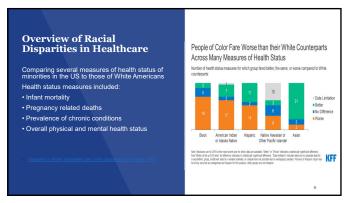
Lack of Evidence

Access to Healthcare

Discrimination

Mistrust in Health care System

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Racial/Ethnic Disparities in prevalence of Chronic Disease Conditions

• Diabetes

• Hypertension

Cardiovascular Disease

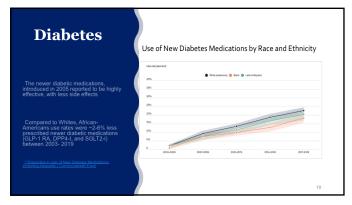
Asthma

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Diabetes Diabetes is one of the most common chronic conditions, affecting 13.4% of adults in the US Disparities Type 1 Diabetes (T1D) is a genetic condition, while T2D is lifestyle related and develops overtime. In the US, T2D is predominate in minority groups compared to Whites.

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Hypertension

- \bullet Nearly half of the adults in the US have hypertension (47%, ~116 million)
- Hypertension is more common in African Americans (56%) than in Whites (48%), Hispanics (39%), and Asians (46%)
- Racial disparities in hypertension have been correlated with the morbidity and mortality risks
- Hypertension treatment is guided by Cardiovascular disease (CVD) risk

Facts About Hypertension | cdc.gov

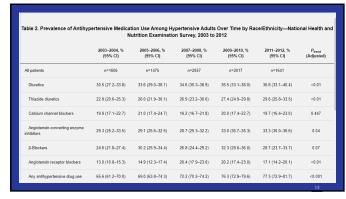
https://www.cdc.gov/bloodpressure/facts.htm

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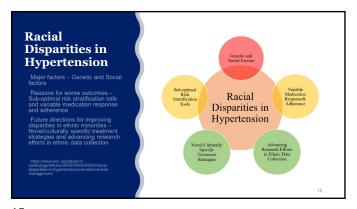
Racial and Ethnic Differences in Antihypertensive Medication Use and Blood Pressure Control Among US Adults With Hypertension

- Hispanic patients (60.7%; 95% CI, 57.0%-64.3%) had the lowest utilization rate of antihypertensive medications compared both with whites (73.9%; 95% CI, 71.6%-76.2%) and blacks (70.8%; 95% CI, 68.6%-73.0%).
- Similar to black patients, Hispanic patients were less likely to attain the treatment goals in adjusted analysis compared with white patients.
- we observed marked racial differences in these measures. Black and Hispanic patients seemed to have poorer hypertension control (as assessed by both JNC 7 and JNC 8 criteria) compared with whites, and these differences were more pronounced in younger and uninsured patients. Although black patients received more intensive antihypertensive therapy, Hispanics were undertreated.
- Therefore, further efforts should focus on understanding the reasons for racial inequalities in hypertension control and mounting a broader effort in addressing these reasons.

https://www.ahajournals.org/doi/full/10.1161/CIRCOUTCOMES.116.003166







Hypertension

Blacks and Hispanics are two times more likely to struggle with high blood pressure reduction due to challenges in lifestyle changes such as:

- · Alcohol restriction
- Exercise
- · Quitting smoking
- Salt restriction (in Blacks)
 Reducing stress
- Hypertension is more resistant in African-Americans, forcing the need for additional therapies to control blood pressure

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Cardiovascular Disease

Cardiovascular disease is the leading cause of death in the US

Four primary clinical risk factors of CVD include:

- Hypertension

Dyslipidemia
 Risk factors and effects of cardiovascular disease differ by racial/ ethnic groups

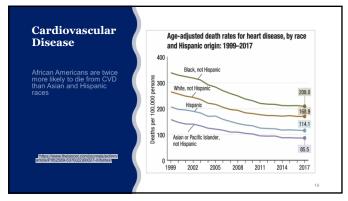
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Cardiovascular Disease

Hispanics are twice more likely to die form Cardiovascular diseases than African American or White patients..?

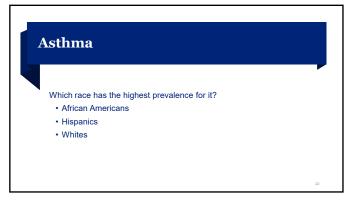
- False



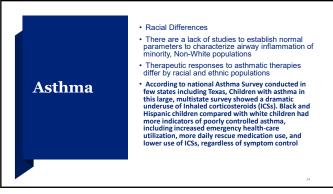
Cardiovascular Disease Disparities Differences in risk factors African-Americans (AA) Higher prevalence and earlier onset of risk factors than Whites, including hypertension and diabetes Awomen have a higher platelet count, causing them to be less responsive to antiplatelet agents Whites Lowest rates of DM and hypertension compared to other ethnicities Lowest rate of CVD Hispanics Higher rates of heart failure (HF), stroke, and peripheral artery disease (PAD) Asians Have lower prevalence of the risk factors than all other ethnicities

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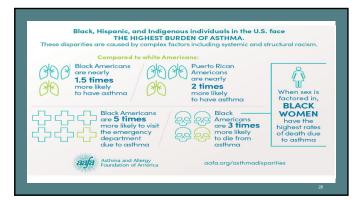
Differences in CVD Drug Treatment Anticoagulants S. LCO181 haplotypes vary among different races contributes to different responses to statins There is a difference in the efficacy and pharmacokinetics of statins between East Asians Decreases plasma concentration of Atorvastatin Warfarin dosage requirements to achieve goal INR is lower in Asians CYP2C972 is associated with lower dose requirements in Whites, but not in African Americans Asians and Whites have a higher risk of heparin-induced thrombocytopenia (HIT) Antiplatetes African Americans reported less likely to take aspirin than Whites Minority races less likely to receive optimal preventative care for prophylaxis



Asthma Asthma affects about over 300 million individuals worldwide and ~26 million in the US Prevalence of asthma among African Americans (14.5%) is higher compared to Whites and Hispanics (8.2% and 7.5%, respectively) Racial and ethnic disparities in asthma can be caused by determinates such as: Structural Social Biological Behaviors

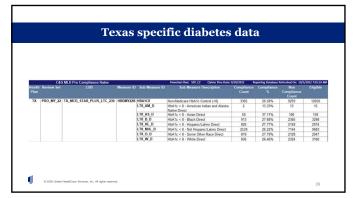


Racial Differences in Asthma Therapy Responses African-Americans Different responses to corticosteroids compared to White patients Children respond better to inhaled corticosteroids (ICS), while adults respond better to LABAS Higher risk of asthma-related death with the use of salmeterol (LABA- Long-acting beta agonist) Children less likely to respond to additive treatment with leukotriene receptor antagonist Hispanics/ Whites Children responded better to step therapy with LABA than higher dose of Inhaled corticosteroids (ICS)









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