

The Power of Nutrition & Epigenetics to End Chronic Disease: Latino Health Equity Conference

DATE: June 21, 2019

Objectives

- Identify opportunities and barriers to utilizing information about the Developmental Origins of Health and Disease and epigenetics in improving the health of Latinx communities.
- Articulate how nutrition can serve as a foundation for building healthy communities and addressing health inequities.
- Develop personal, organizational and community interest in interacting with the Nutrition Oregon Campaign.

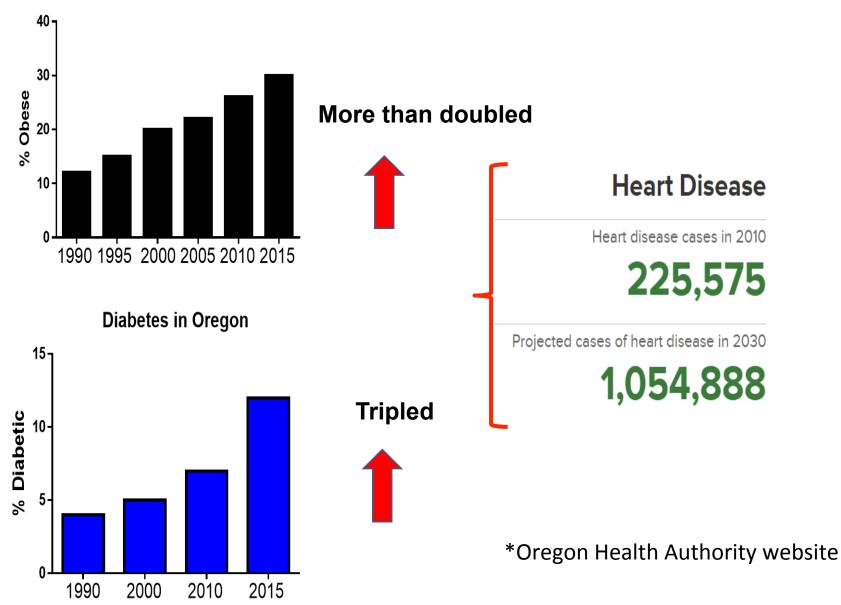


The health of the U.S. population is worsening



Adult Chronic Disease Rates in Oregon

Obesity in Oregon



Projections – CVD Total Costs Through 2035

60214670

	Current	2035
Medical costs up 135 percent	\$318 billion	\$749 billion
Indirect costs up 55 percent (Lost productivity)	\$237 billion	\$368 billion
TOTAL COSTS	\$555 billion	\$1.1 trillion

274670

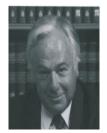
CARDIOVASCULAR DISEASE: A COSTLY BURDEN FOR AMERICA

PROJECTIONS Through 2035

American Heart Association 2017

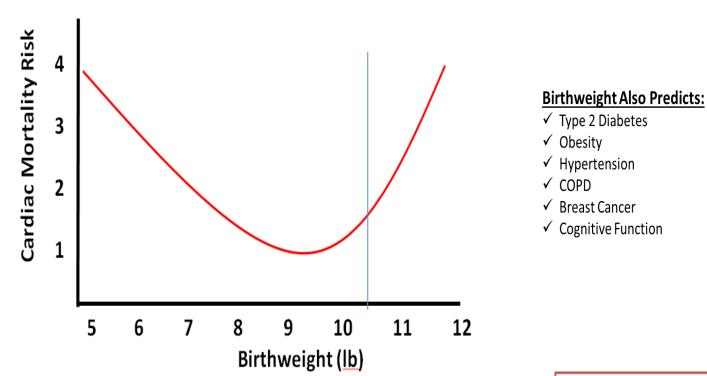
The environment during the first 1,000 days from conception to age 2 is the largest predictor of chronic disease risk





Early Life "Programming" of Heart Disease

David JP Barker 1938-2013





Beyond Birthweight

1. Maternal body type

Height, weight, muscle mass, fat mass, skeletal dimensions hormone profile, blood lipids.

2. Fetoplacental Sex

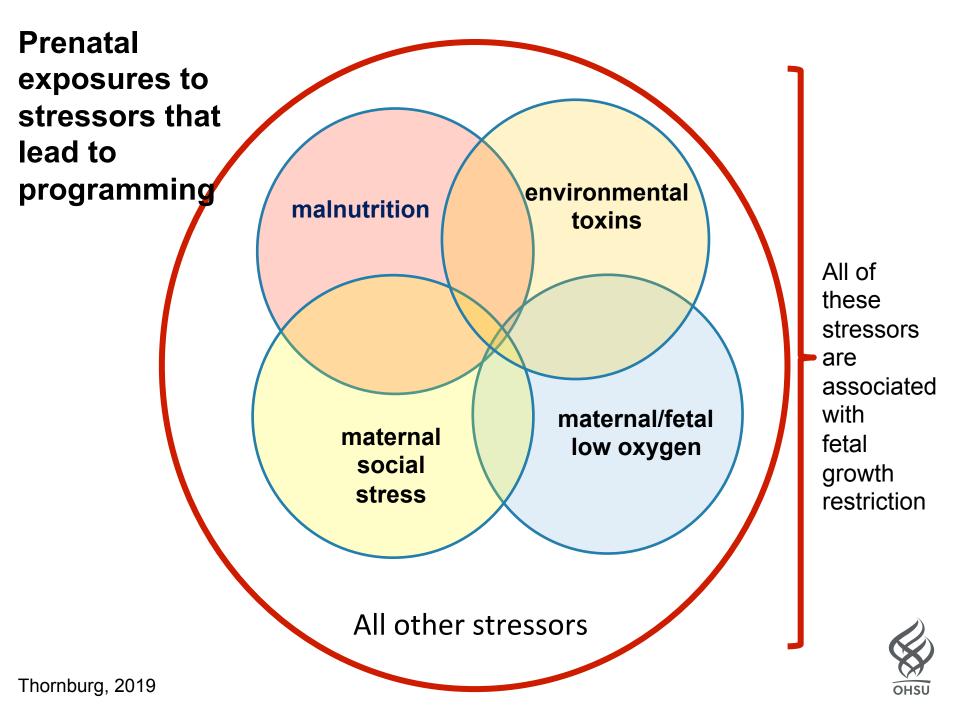
3. Paternal effects

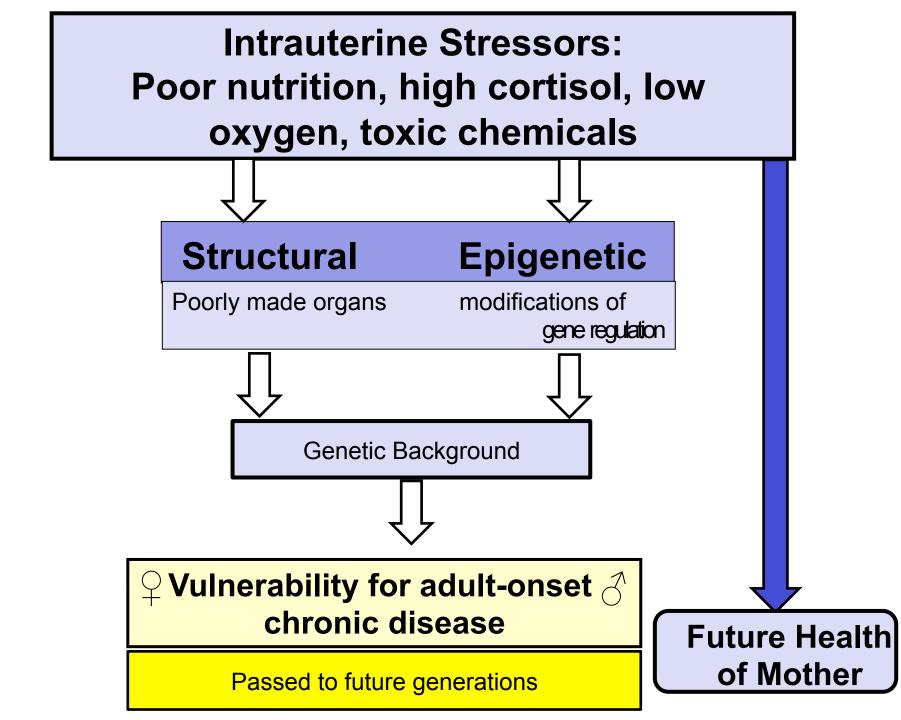
4. Placental size and shape

Weight, width, length, thickness, number of cotyledons, cord insertion and length, efficiency





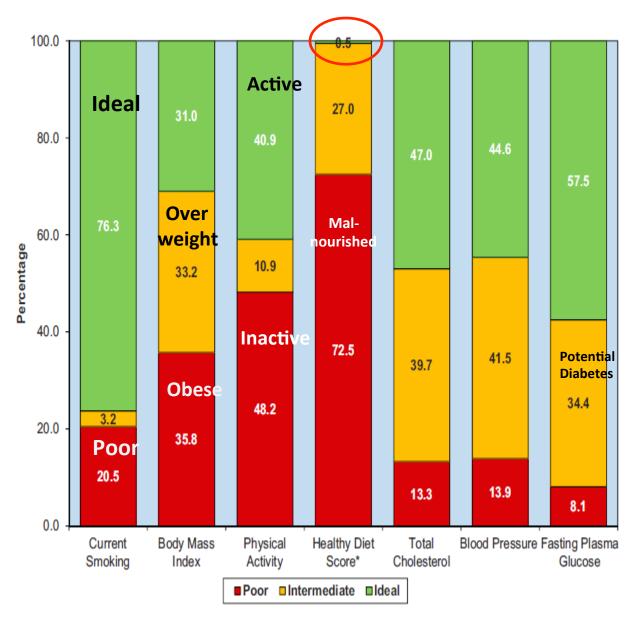




We are part of the third generation eating diets high in processed and fast foods



Age-standardized estimates for each of the simple-7 metrics of AHA 2020 Goals among adults over 20 years old

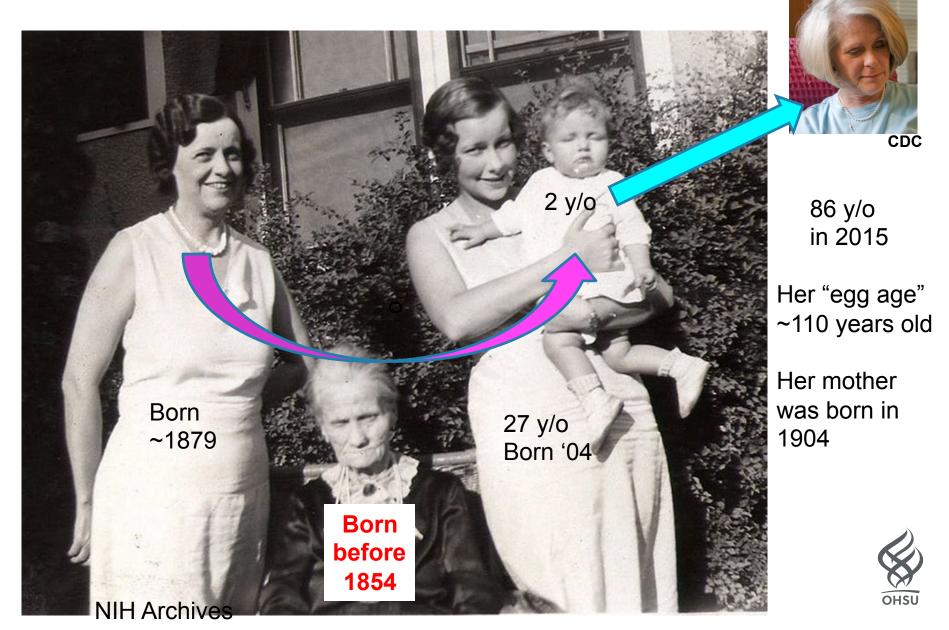




The health of one generation impacts the health of the next two generations



Nutritional Flow Across Generations



The mother provides the environment for the developing baby, but society provides the environment for the mother.



Environment Nutritional Stress Social Stress Toxic Chemicals micro-organisms

Thornburg, 2017



We will not change the health of our communities without prioritizing the nutrition of adolescents, women before and during pregnancy, and young children.





Nutrition Oregon Campaign

DATE: April 24, 2019 PRESENTED BY: Monica Cuneo, MPH

"Very real crises mark our time. And as much as we might like it otherwise, it appears that doing what we have always done, only harder, will not solve them."

—Charles Johnston



Vision

Fully utilize the power of nutrition to end chronic disease in Oregon for all with a specific focus on closing the gap for those most at risk.



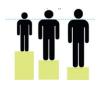
What will it take to end chronic disease in Oregon?

What are we willing to do differently?

How can we work in new ways to create a better future?



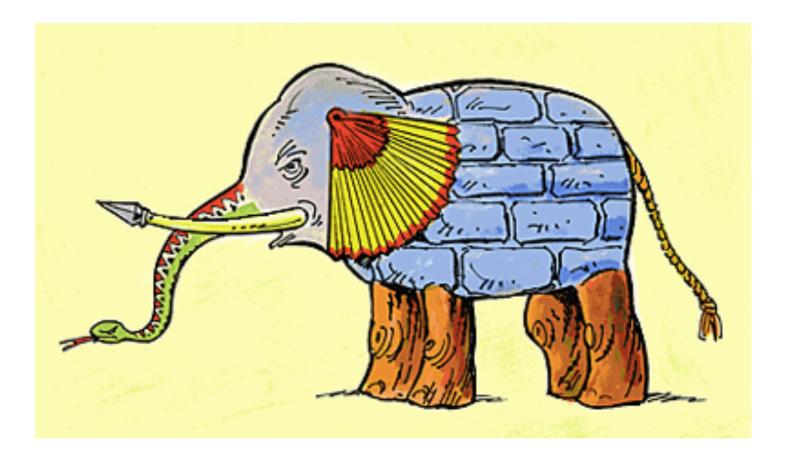
Racial Equity Commitment



Racial Equity Commitment: Race is prioritized to determine the distribution of power and resources as a commitment to close the gap experienced by different racial groups. Cultural identity will determine the approach and compounding inequities will determine the strategies.



Systems Approach

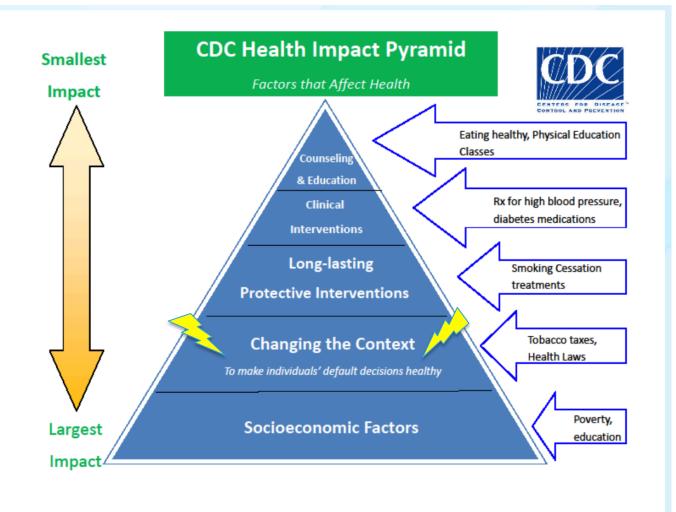




Environment Nutritional Stress Social Stress Toxic Chemicals

Thornburg, 2017

Health Impact Pyramid



"The need to urge behavioral change is symptomatic of failure to establish contexts in which healthy choices are default actions."

Frieden, T. A Framework for Public Heath Action: The Health Impact Pyramid. Am J Public Health. 2010; April; 100(4): 595.

Key Sectors





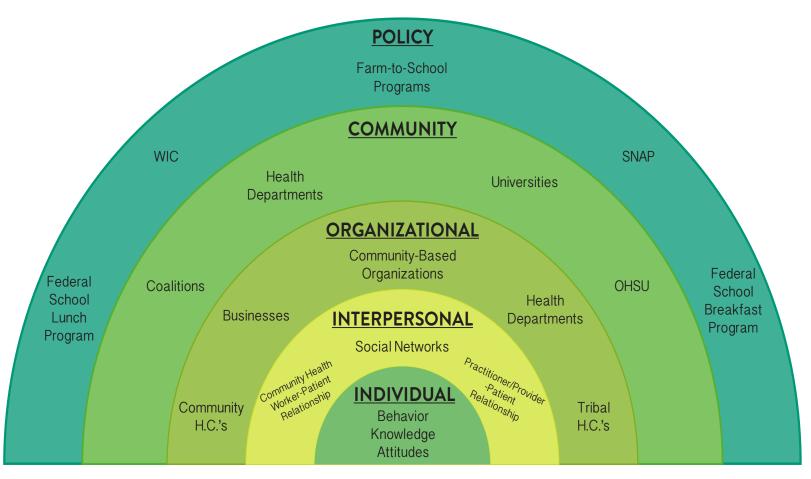




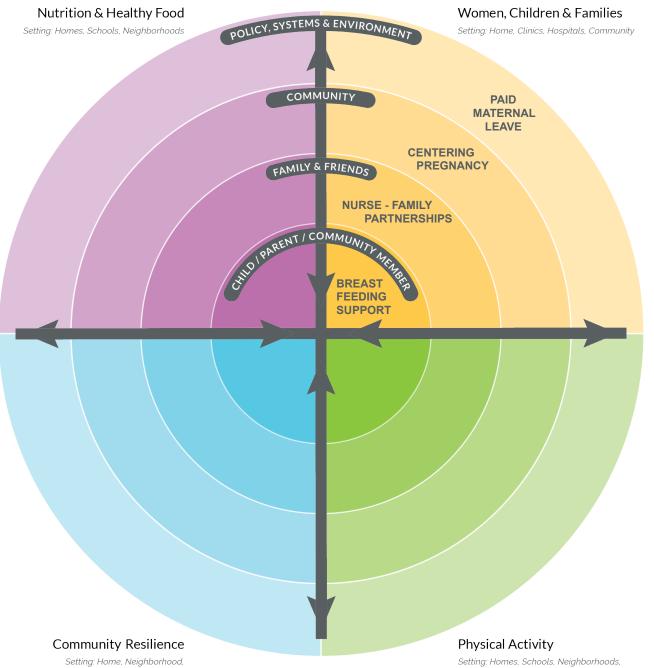
Health care providers Community health workers Pre-K - 12 education and food and nutrition service leaders Community, business and government leaders



Integrated Action



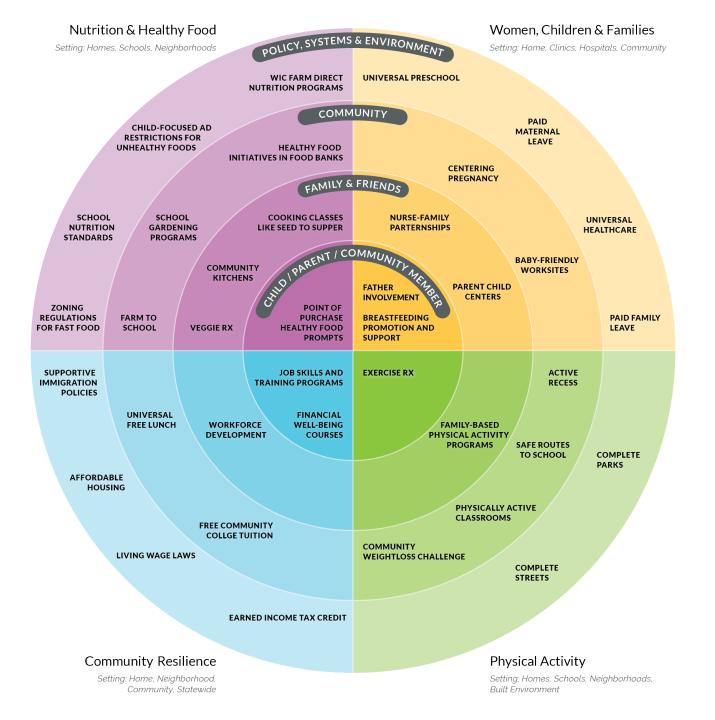






Community, Statewide

Built Environment





Moore Institute: Backbone Function

- Research translation
- Campaign coordination
- Campaign fundraising
- Broad Communications

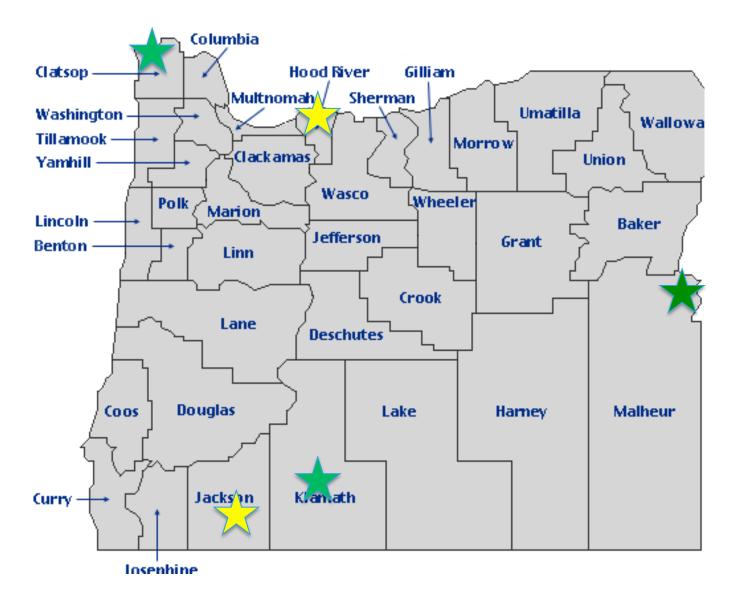
Core Collaborators: Steering Committee

- Vision
- Action plan
- Shared measures for statewide alignment
- Racial equity commitment

Hubs : Community Application

- Cross sector systems coordination
- Dissemination of science
- Education and Engagement
 - Project creation
- Local leadership development

Pilot Hubs







Thank You