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#### Cardi-OH ECHO

## Health Equity and Cardiovascular Risk

September 21, 2023





#### Cardi-OH ECHO Team

#### **FACILITATOR**

Goutham Rao, MD, FAHA
Case Western Reserve University

#### **CONTENT EXPERTS**

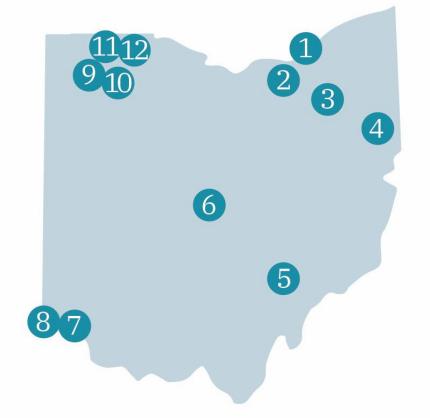
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# Fall 2023 Cardi-OH ECHO Participant Sites



- 1 University Hospitals Cinema/ Achieve GreatER Cleveland
- 2 MetroHealth Bedford Medical Offices
  Bedford
- 3 Summa Family Medicine
  Akron
- 4 SRMC Internal Medicine Center Salem

- **5** Ohio University Diabetes Institute Athens
- 6 Southeast Healthcare Inc Columbus
- 7 UC Health Cincinnati
- Crossroad Health Center
  Cincinnati

- 9 UTMC Comprehensive Care Center, Internal Medicine
  - UTMC Practice
    Toledo
- 11 UTMC Family Medicine
  Toledo
- Paramount Health Care Inc
  Toledo

### Disclosure Statements



- The following speakers and subject matter experts have a relevant financial interest or affiliation with one or more organizations that could be perceived as a real or apparent conflict of interest in the context of the subject of their presentation\*:
  - Danette Conklin, PhD; Kathleen Dungan, MD, MPH; Adam T. Perzynski, PhD; Christopher A. Taylor, PhD, RDN, LD, FAND; Jackson Wright, MD, PhD
- The remaining speakers and subject matter experts have no financial relationships with any commercial interest related to the content of this activity:
  - Karen Bailey, MS, RDN, LD, CDCES; Kristen Berg, PhD; Elizabeth Beverly, PhD; Merilee Clemons, PharmD; Revital Gordodeski Baskin, MD; George Matar, MD; Kelsey Ufholz, PhD; Goutham Rao, MD; James Werner, PhD, MSSA
- The following members of the planning committee DO NOT have any disclosures/financial relationships from any ineligible companies:
  - Shari Bolen, MD; Anderson Christopher; Richard Cornachione; Carolyn Henceroth; Gillian Irwin; Michael Konstan, MD; Elizabeth Littman; Devin O'Neill; Steven Ostrolencki; Ann Nevar; Claire Rollins; Catherine Sullivan

<sup>\*</sup> These financial relationships are outside the presented work.

<sup>\*\*</sup> For more information about exemptions or details, see www.acme.org/standards





#### Today's Presenters

#### **FACILITATOR**

Goutham Rao, MD, FAHA Case Western Reserve University

#### **DIDACTIC PRESENTER**

Chris Taylor, PhD
The Ohio State University

#### **LEAD DISCUSSANTS**

Kathleen Dungan, MD, MPH
The Ohio State University
Chris Taylor, PhD
The Ohio State University

#### **CASE PRESENTER**

L. Austin Fredrickson, MD SRMC Internal Medicine Center





# Dietary Preferences and their Role in Driving Cardiovascular Risk

Chris Taylor, PhD, RD, LD

Professor and Director of Medical Dietetics
Professor of Family Medicine and Community Health
School of Health and Rehabilitation Sciences
College of Medicine
The Ohio State University

## Learning Objectives



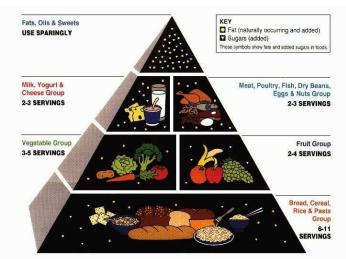
- 1) List sources of data on dietary preferences of different subpopulations in the United States.
- 2) List and describe a minimum of three significant racial and ethnic disparities in healthy eating.
- 3) Describe a culturally sensitive approach to identifying dietary behaviors contributing to cardiovascular risk.

### Creating a Foundation for Nutrition Guidance

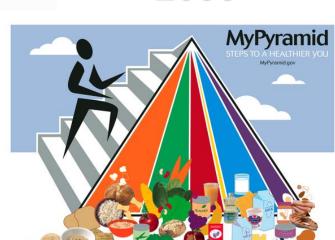




Basic 7 1943

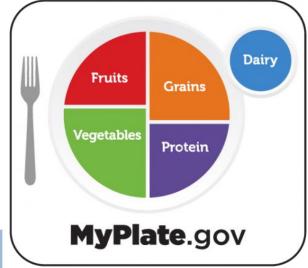


Food Guide Pyramid 1992



MyPyramid

2005



MyPlate 2011

### Translation

EAT A VARIETY OF FOODS
INCLUDING RICE & OTHER GRAINS,
VEGETABLES, FRUITS, MILK &
DAIRY PRODUCTS, MEAT, FISH,
EGGS, AND BEANS

Eat a variety of foods daily in the recommended amounts for a well-balanced diet.

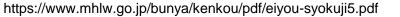


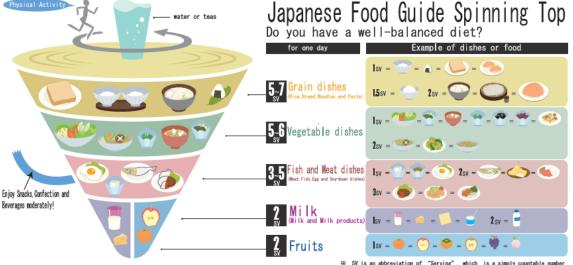


- Grains2-4 servings/day
- Meat, Fish, Eggs & Beans 3~4 servings/day
- Vegetables more than 2 servings/meal
- Fruits1~2 servings/day
- Milk1~2 servings/day

urce: Ministry of Health and Welfare, Welfare · The Korean Nutrition Society, Dietary Reference Intakes for Koreans 2015, 2015

https://onav.fr/wp-content/uploads/2021/01/General-Dietary-Guidelines-for-Koreans.pdf

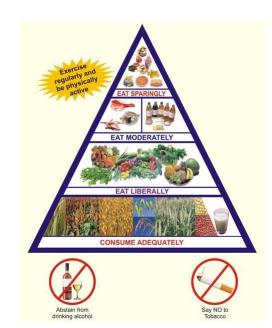




CARDI•OH
Ohio Cardiovascular and Diabetes Health Collaborative

% SV is an abbreviation of "Serving", which is a simply countable number describing the approximated amount of each dish or food served to one person

Decided by Ministry of Health, Labour and Welfare and Ministry of Agriculture, Forestry and Fisheries.



https://www.nin.res.in/downloads/DietaryGuidelinesforNINwebsite.pdf



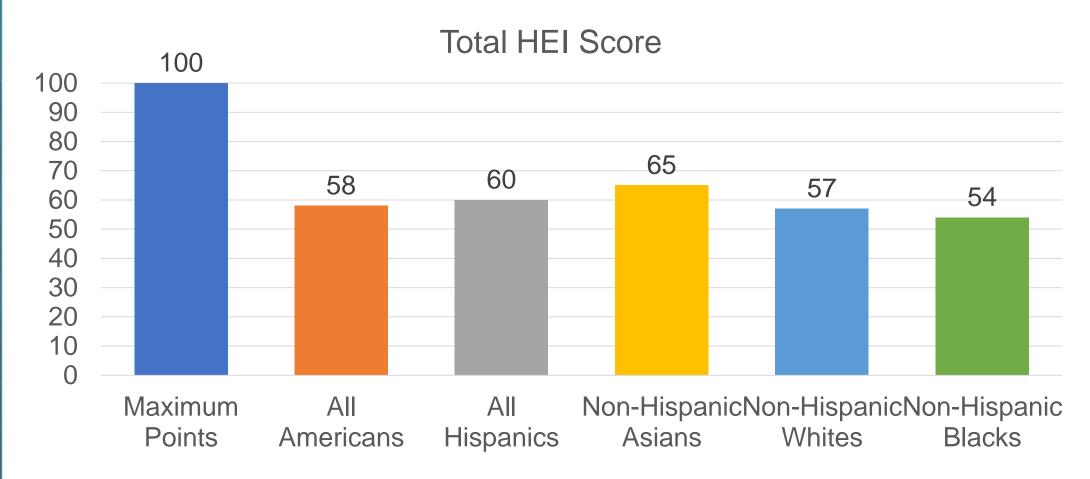
## Adaptations to Various Cultures



- International food guidance represents a variation on a theme
- Cultural foodways often reflect specific food and beverage selections within food groups
  - Staple carbohydrates
  - Vegetables
  - Fruits
  - Protein sources
  - Nuts, seed, legumes, beans, peas, and lentils
  - Muslim Dietary Considerations/Halal

# Differences in Diet Quality by Race and Ethnicity – Overall Quality

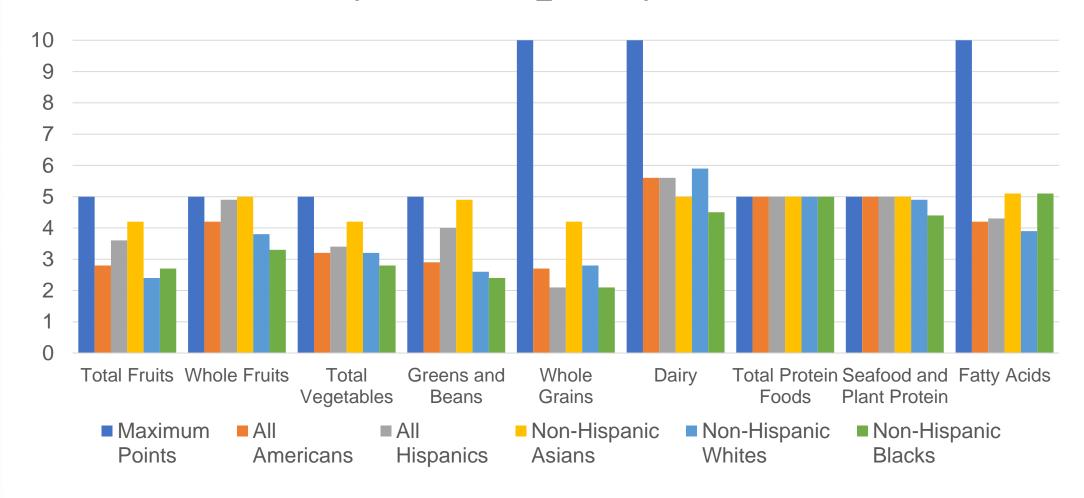




https://www.fns.usda.gov/cnpp/hei-scores-americans

# Differences in Diet Quality by Race and Ethnicity -Adequacy

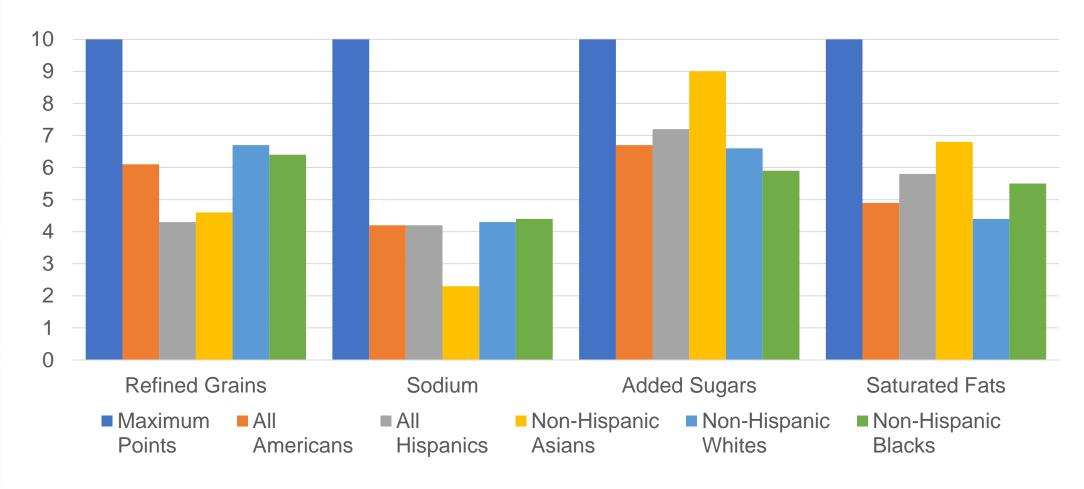




https://www.fns.usda.gov/cnpp/hei-scores-americans

# Differences in Diet Quality by Race and Ethnicity - Moderation





https://www.fns.usda.gov/cnpp/hei-scores-americans

## Planning for Dietary Restrictions

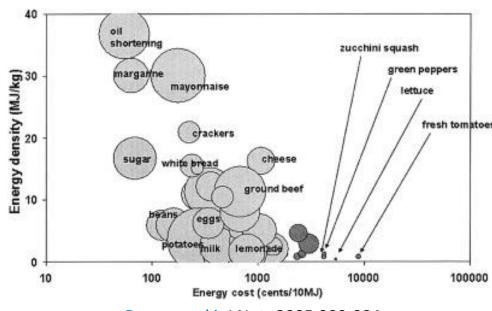


- Modifications to eating patterns for numerous reasons
  - Cultural, religious, ethical, regional
- Family and personal roles related to food, meals, preparation, and participation
- Cultural traditions, holidays, frequency, duration, and considerations
- <u>FAO</u> Food Based-Dietary Guidelines

## Addressing Health Disparities



- Race and Ethnicity tied to many health disparities
  - Inequities tied to socioeconomic position, access, affordability
- Representation, Equity, or Access
  - · "Choice?"
- Honor representation of self
  - Inform choices and opportunities
- Referrals



Drewnowski. J Nutr 2005;900-904.

### Additional Resources



- USDA has created numerous resources to support culturally-tailored dietary guidance
  - https://www.nutrition.gov/topics/shopping-cooking-and-meal-planning/cultureand-food
- Cultural Awareness of Eating Patterns in the Health Care Setting
  - https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7727853/
- US Dietary Guidelines
  - https://www.dietaryguidelines.gov/
- MyPlate online resources
  - https://www.myplate.gov/



# Questions

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## Thank you!

Questions/Discussion