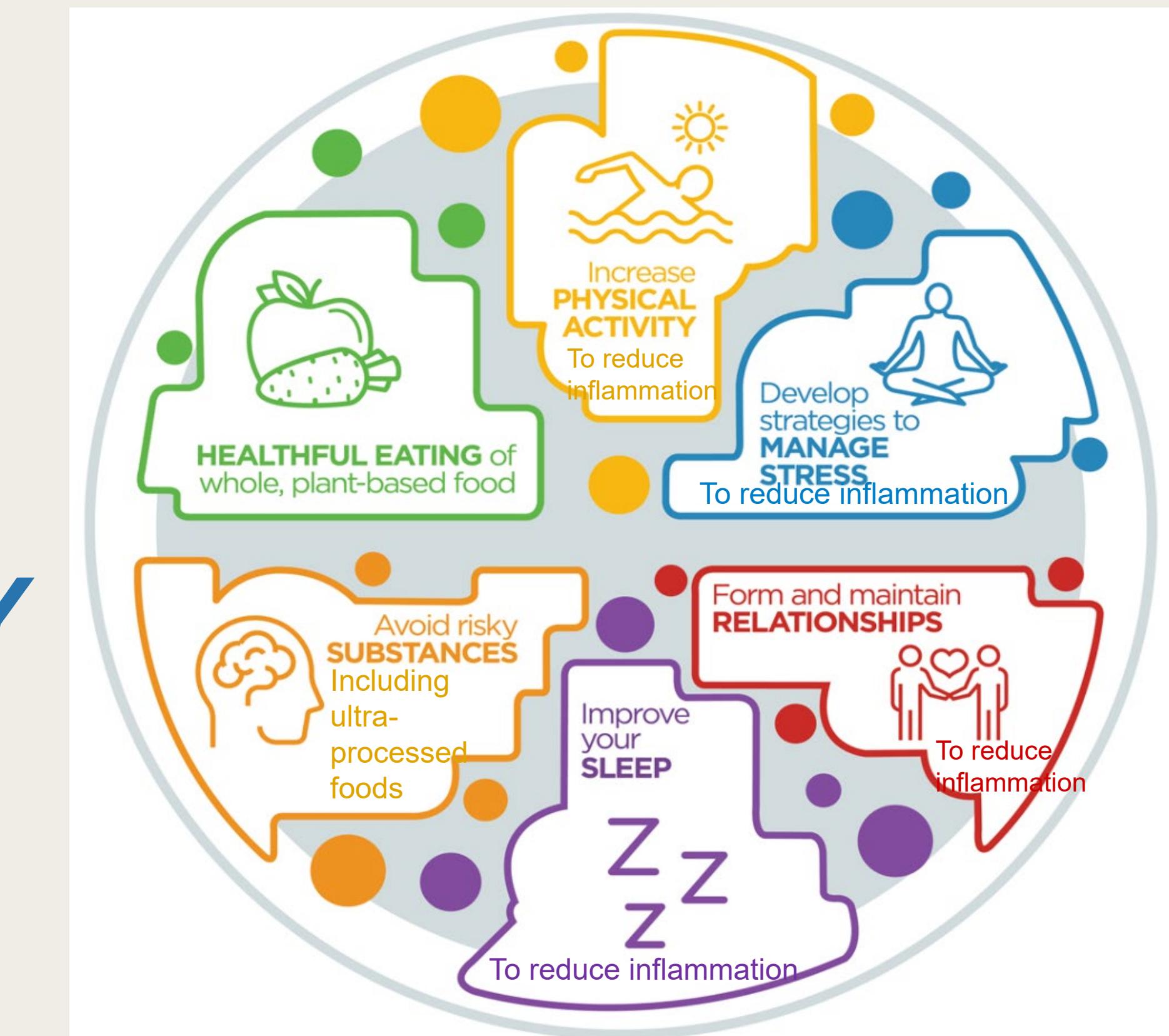




# PEOPLE, PURPOSE AND PARTNERSHIPS: A *MISSION-ALIGNED* RESEARCH JOURNEY *IN FAMILY MEDICINE*

Frederick Ferguson, MD, MS (he/him)  
Assistant Clinical Professor  
UCLA Department of Family Medicine



# Why People?

**At our most basic level, we depend on communities of people — doing our best to live healthy lives within the social and structural conditions we are given.**

# NCSP Fellowship Projects

1. Masters Thesis - Exploring Self-Employment and Cardiovascular Disease Risk among Hispanic Women (*publication accepted, Ethnicity and Disease*)
2. Successfully Training Primary Care Physicians for Urban Underserved Communities (*publication accepted, Journal of American Board of Family Medicine*)
3. Attributes of Trustworthy Care: Insights from Black Sexual Minority Males (*data analysis in progress*)

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1. Autonomy/flexibility in work schedule may help reduce CVD risk among Hispanic women
2. Medical school curriculum that fosters missions of pre-med students can contribute to graduates' practicing in underserved areas at medical school graduation
3. Trust is a provider and system responsibility, especially for vulnerable communities

# PURPOSE

Promoting lifestyle  
medicine to combat  
chronic disease in  
marginalized  
populations by  
minimizing chronic  
inflammation

**UCLA** David Geffen School of Medicine

Personal  
Mission  
Statement

# C-Reactive protein measure of inflammation, comparing white men to specific gender & ethnic groups

VARIABLES	CRP
Black	1.89*** (0.17)
Hispanic, US born	1.76*** (0.26)
Hispanic, Foreign-born	1.07 (0.14)
Female	1.48*** (0.11)
Age	0.99*  

Source: Davidson-Turner K, Farina MP, Hayward MD. Racial/Ethnic differences in inflammation levels among older adults 56+: an examination of sociodemographic differences across inflammation measure. *Biodemography Soc Biol.* 2024;69(2):75-89.

# MAJOR INFLUENCES ON INFLAMMATION INCLUDE...

**Socioeconomic Factors:** Poverty and limited access to resources are strongly linked to higher inflammation. For Black men, roughly **12.3%** of the CRP disparity is attributed to socioeconomic status.

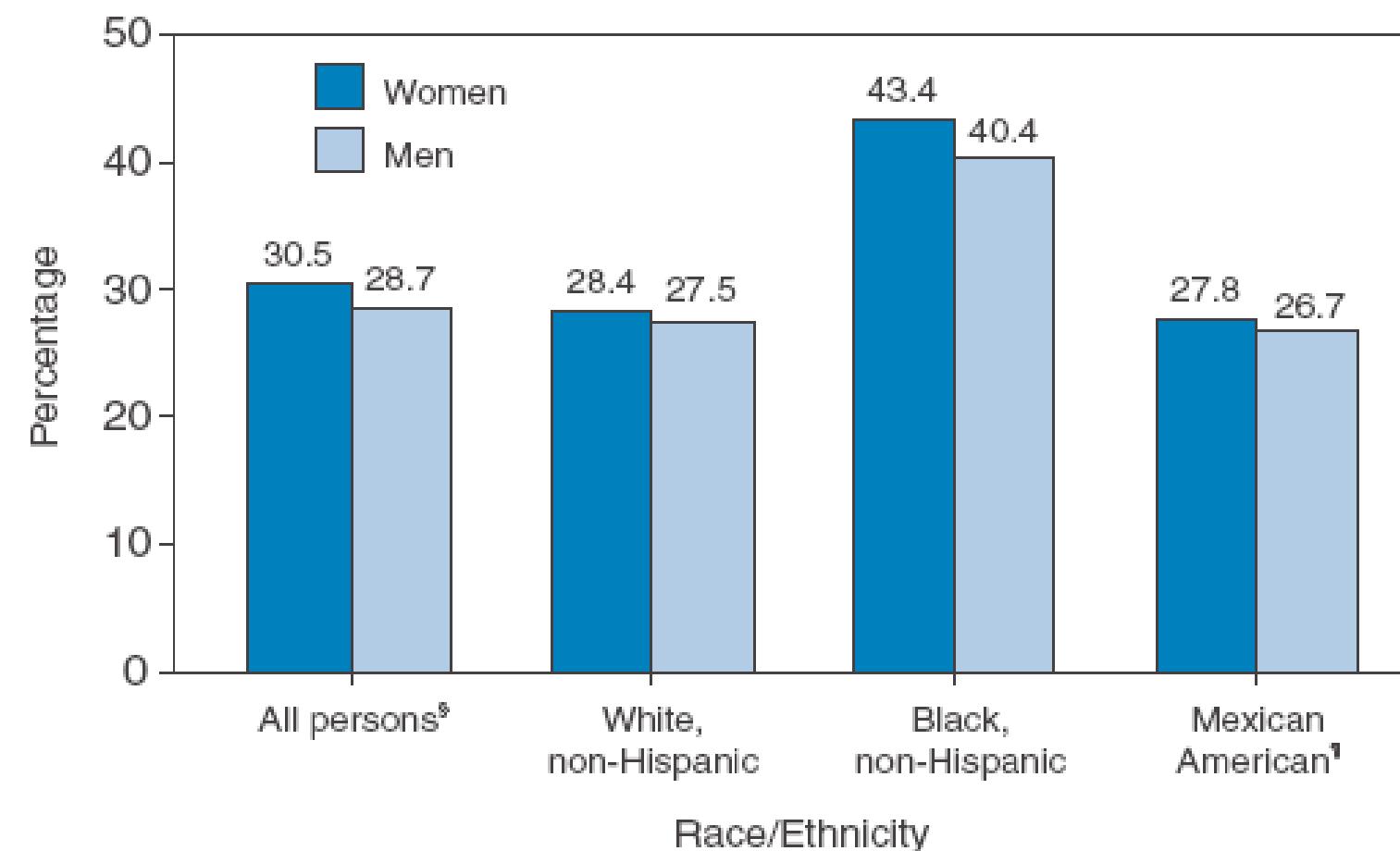
**Lifestyle & Behavior:** Diet and physical inactivity are major mediators. Differences in diet quality, specifically the consumption of pro-inflammatory vs. anti-inflammatory foods, account for a substantial portion of the racial gap.

**Physiological Factors:** Body Mass Index (BMI) and high-risk health conditions (e.g., hypertension, diabetes) significantly influence CRP. In Black women, racial differences in CRP are primarily attributed to physiological factors, accounting for up to **40%** of the gap.

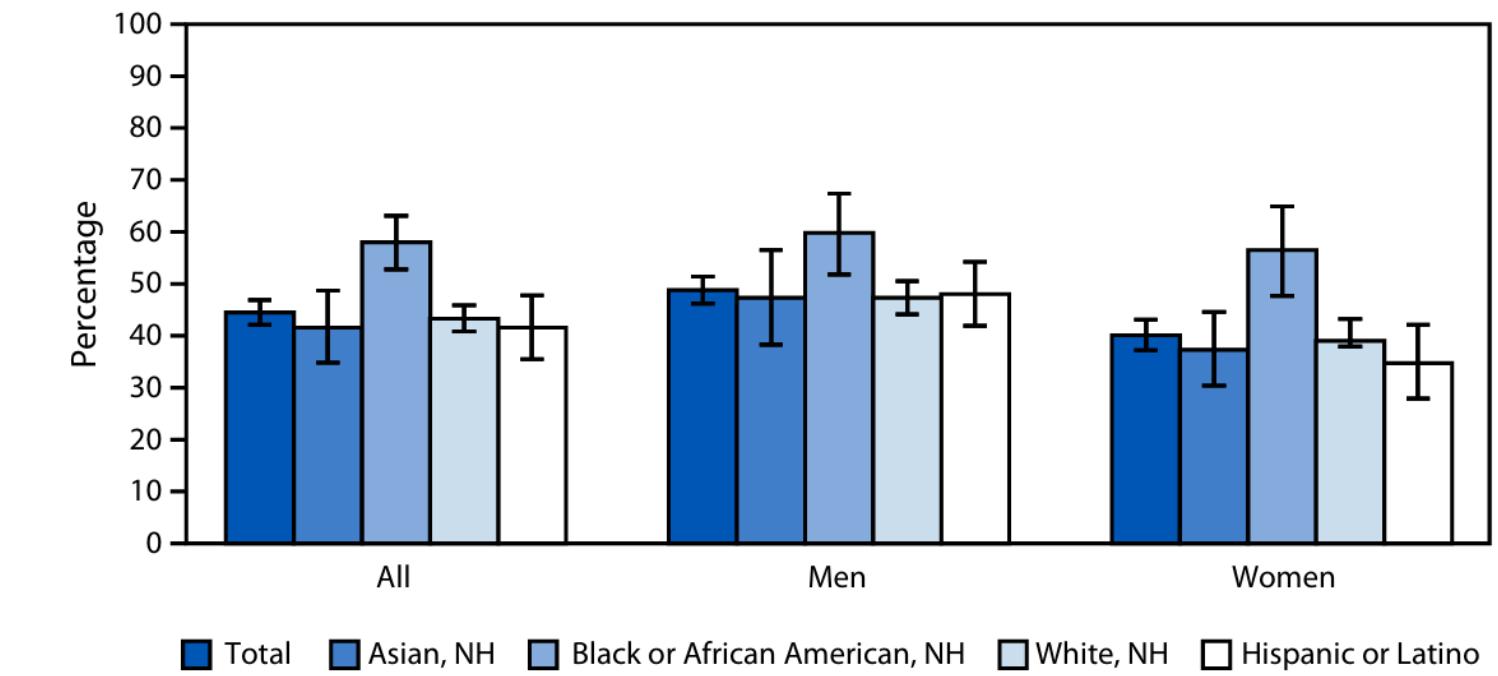
Sources: Hemade A, Hallit S. Racial disparities in systemic inflammation: The mediating role of diet and physical activity in  $\alpha$ -1-acid glycoprotein levels in the US population. *Medicine*. 2025;104(38):10.  
& Davidson-Turner K, Farina MP, Hayward MD. Racial/Ethnic differences in inflammation levels among older adults 56+: an examination of sociodemographic differences across inflammation measure. *Biodemography Soc Biol*. 2024;69(2):75-89.

# Inflammation is a major contributor to hypertension risk

Percentage\* of Persons Aged  $\geq 20$  Years with Hypertension,† by Race/Ethnicity — United States, 1999–2002



Age-Adjusted Percentage\* of Adults Aged  $\geq 18$  Years with Hypertension,† by Sex and Race and Ethnicity — United States, August 2021–August 2023



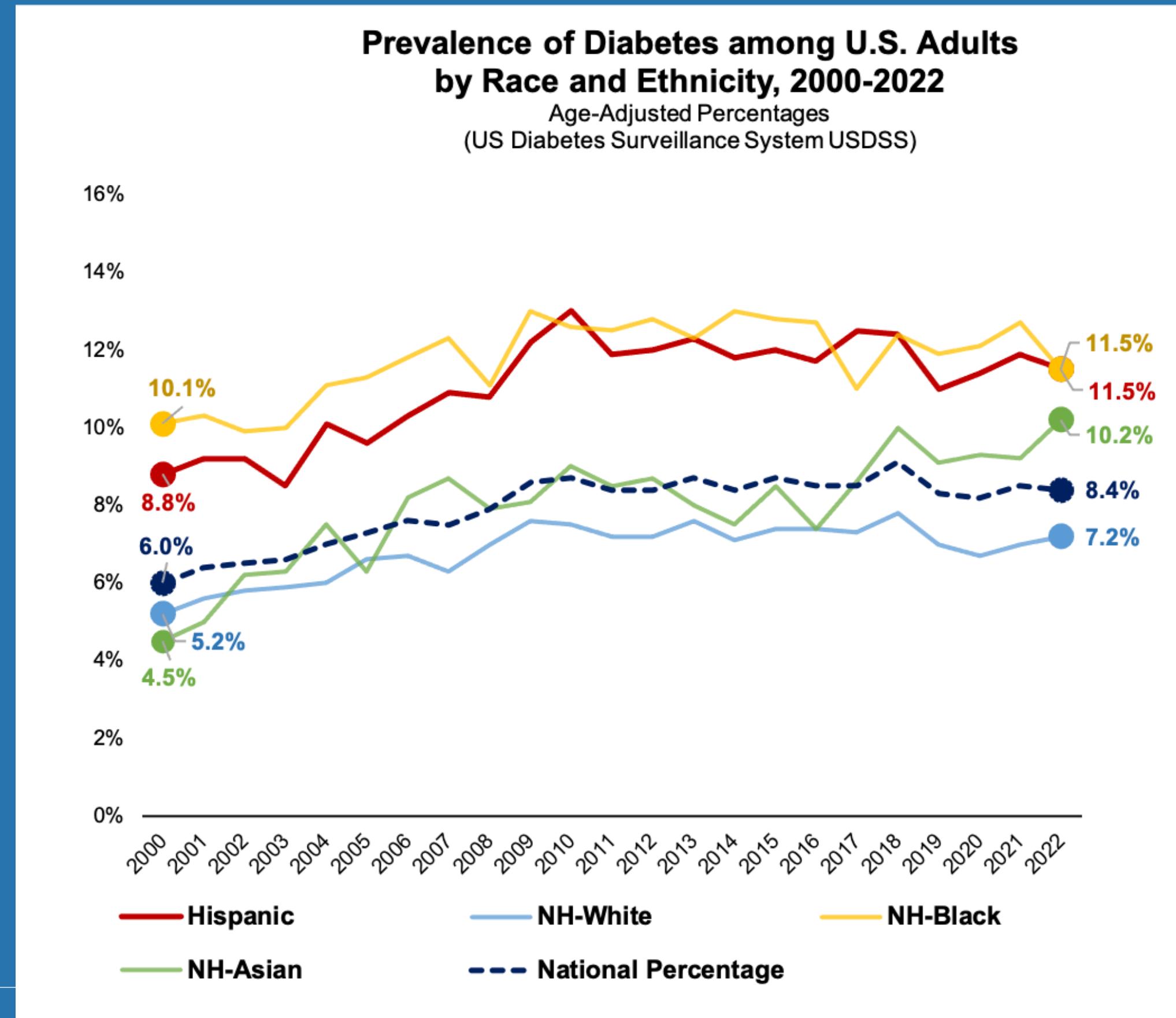
Abbreviation: NH = non-Hispanic.

\* Age-adjusted percentages are based on the 2000 U.S. Census Bureau standard population, using age groups 18–39, 40–59, and  $\geq 60$  years, with 95% CIs indicated by error bars.

† Hypertension is defined as systolic blood pressure  $\geq 130$  mm Hg or diastolic blood pressure  $\geq 80$  mm Hg, or currently taking medication to lower blood pressure.

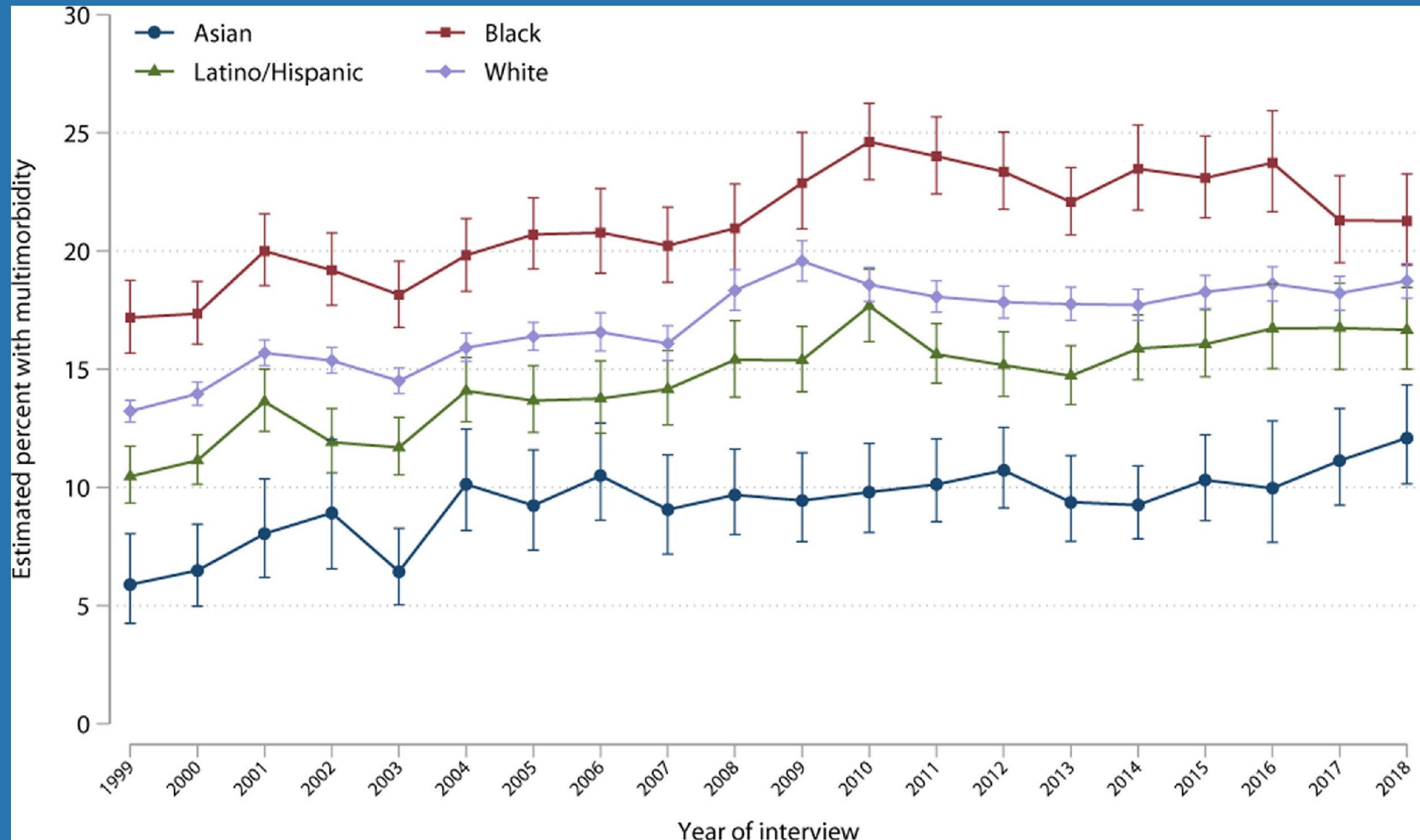
Source: Sun SD, Fu JM, Yang JF, Zhao L, Zhao BY, Zhou YB. Correlation analysis of systemic immune inflammation index with the occurrence and clinical outcomes of hypertension: a systematic review and meta-analysis. *Front Cardiovasc Med*. 2025;12:11.

# Inflammation is a major contributor to risk of type 2 diabetes



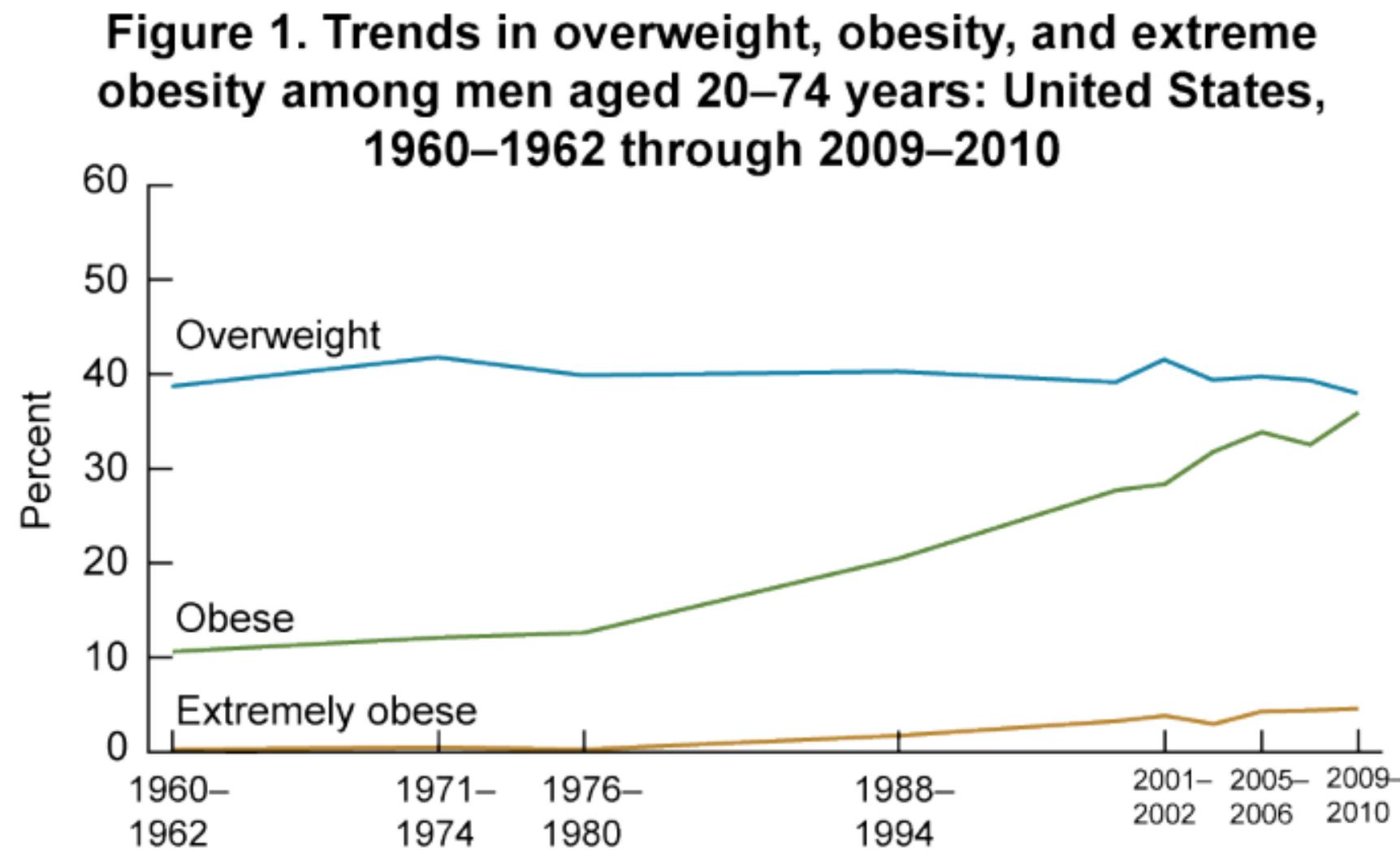
Source: Pellegrini V, La Grotta R, Carreras F, et al. Inflammatory Trajectory of Type 2 Diabetes: Novel Opportunities for Early and Late Treatment. *Cells*. 2024;13(19):21.

# Inflammation is a major contributor to multimorbidity in the U.S.



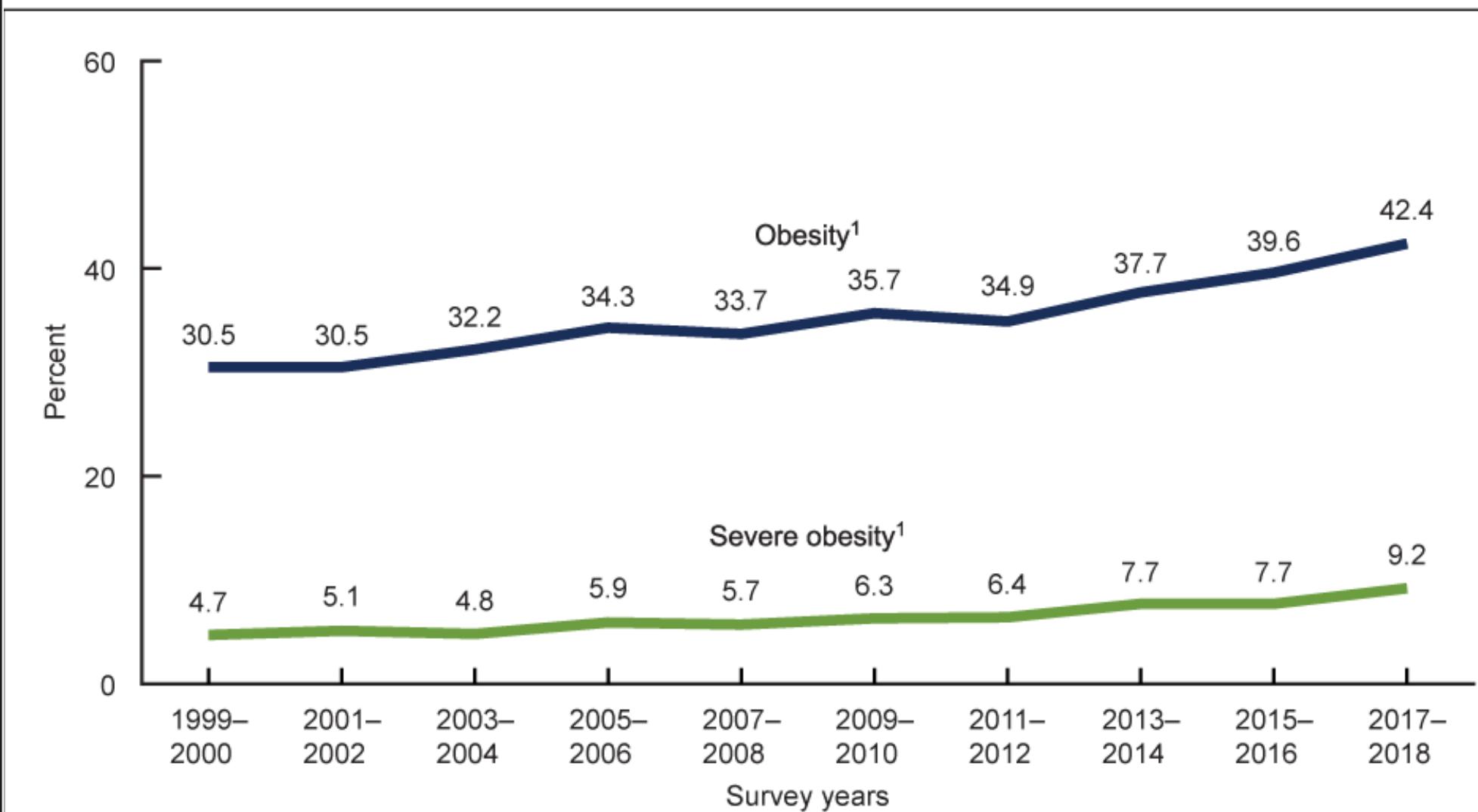
Source: Zazzara  
MB, Triolo F,  
Biscetti L, et al.  
Biomarkers of  
multimorbidity: A  
systematic review.  
*Ageing Res Rev.*  
2025;112:11.

# U.S. adult obesity prevalence has increased from 11% in 1960 to 40.2% in 2022-2023



NOTES: Age adjusted by the direct method to the 2000 U.S. Census population using age groups 20–39, 40–59, and 60–74. Overweight is a body mass index (BMI) of 25 kg/m<sup>2</sup> or greater but less than 30 kg/m<sup>2</sup>; obesity is a BMI greater than or equal to 30 kg/m<sup>2</sup>; and extreme obesity is a BMI greater than or equal to 40 kg/m<sup>2</sup>.  
SOURCES: CDC/NCHS, National Health and Nutrition Examination Survey (NHANES) I 1971–1974; NHANES II 1976–1980; NHANES III 1988–1994; NHANES 1999–2000, 2001–2002, 2003–2004, 2005–2006, 2007–2008, and 2009–2010.

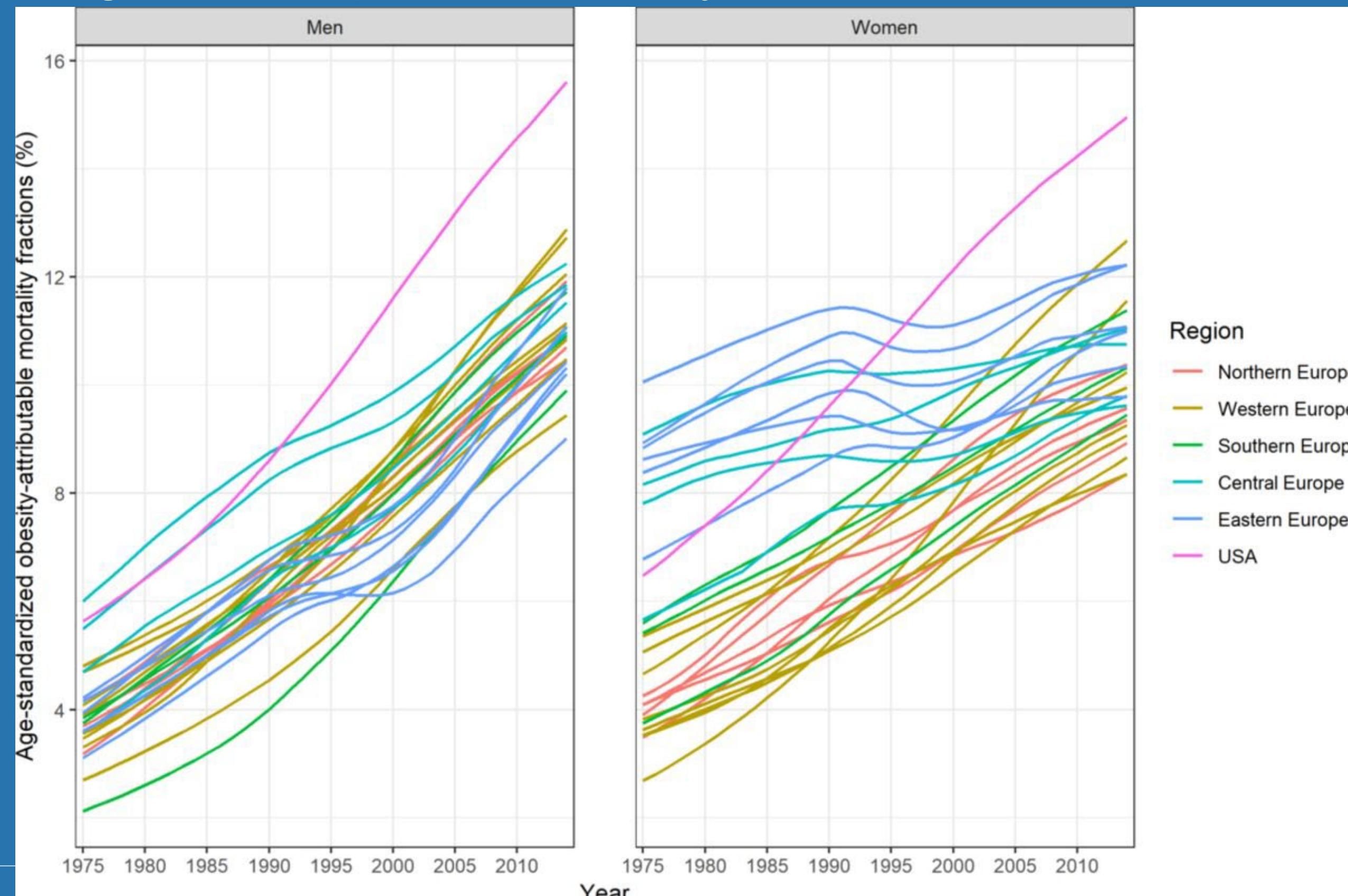
Figure 4. Trends in age-adjusted obesity and severe obesity prevalence among adults aged 20 and over: United States, 1999–2000 through 2017–2018



<sup>1</sup>Significant linear trend.

NOTES: Estimates were age adjusted by the direct method to the 2000 U.S. Census population using the age groups 20–39, 40–59, and 60 and over. Access data table for Figure 4 at: [https://www.cdc.gov/nchs/data/databriefs/db360\\_tables-508.pdf#4](https://www.cdc.gov/nchs/data/databriefs/db360_tables-508.pdf#4).  
SOURCE: NCHS, National Health and Nutrition Examination Survey, 1999–2018.

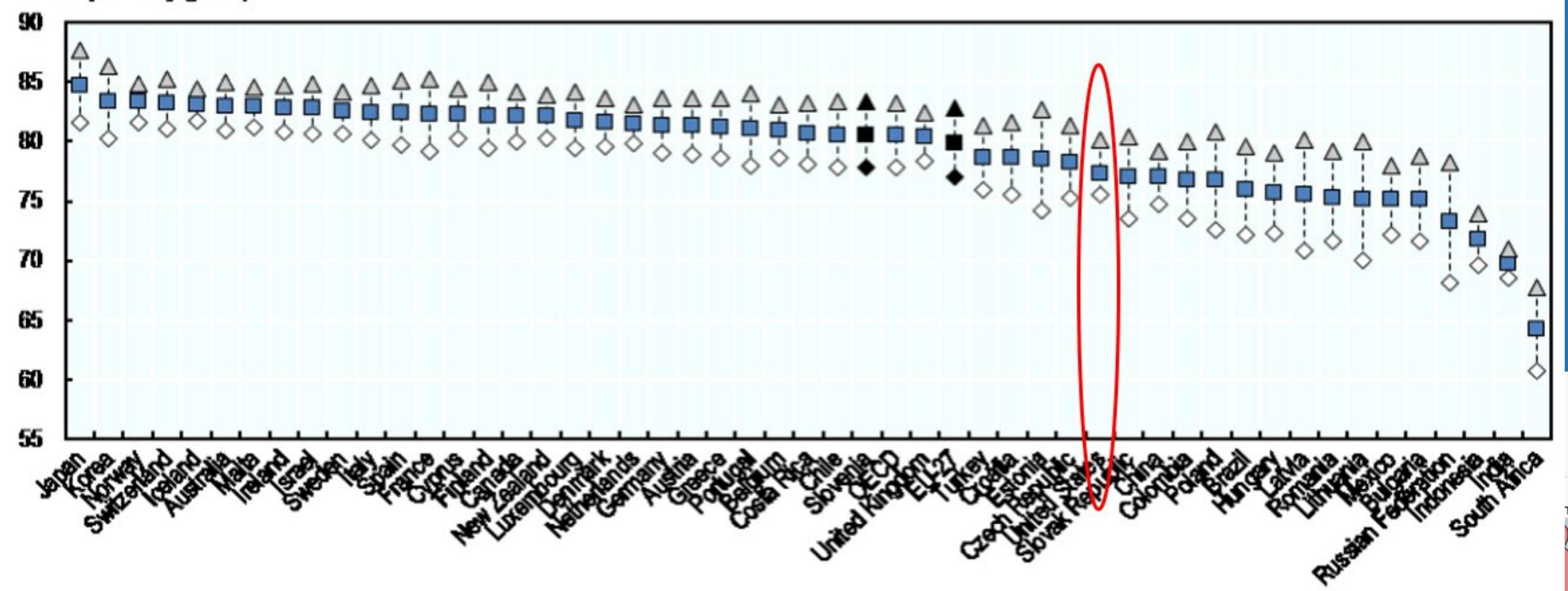
# Obesity has a significant impact on mortality



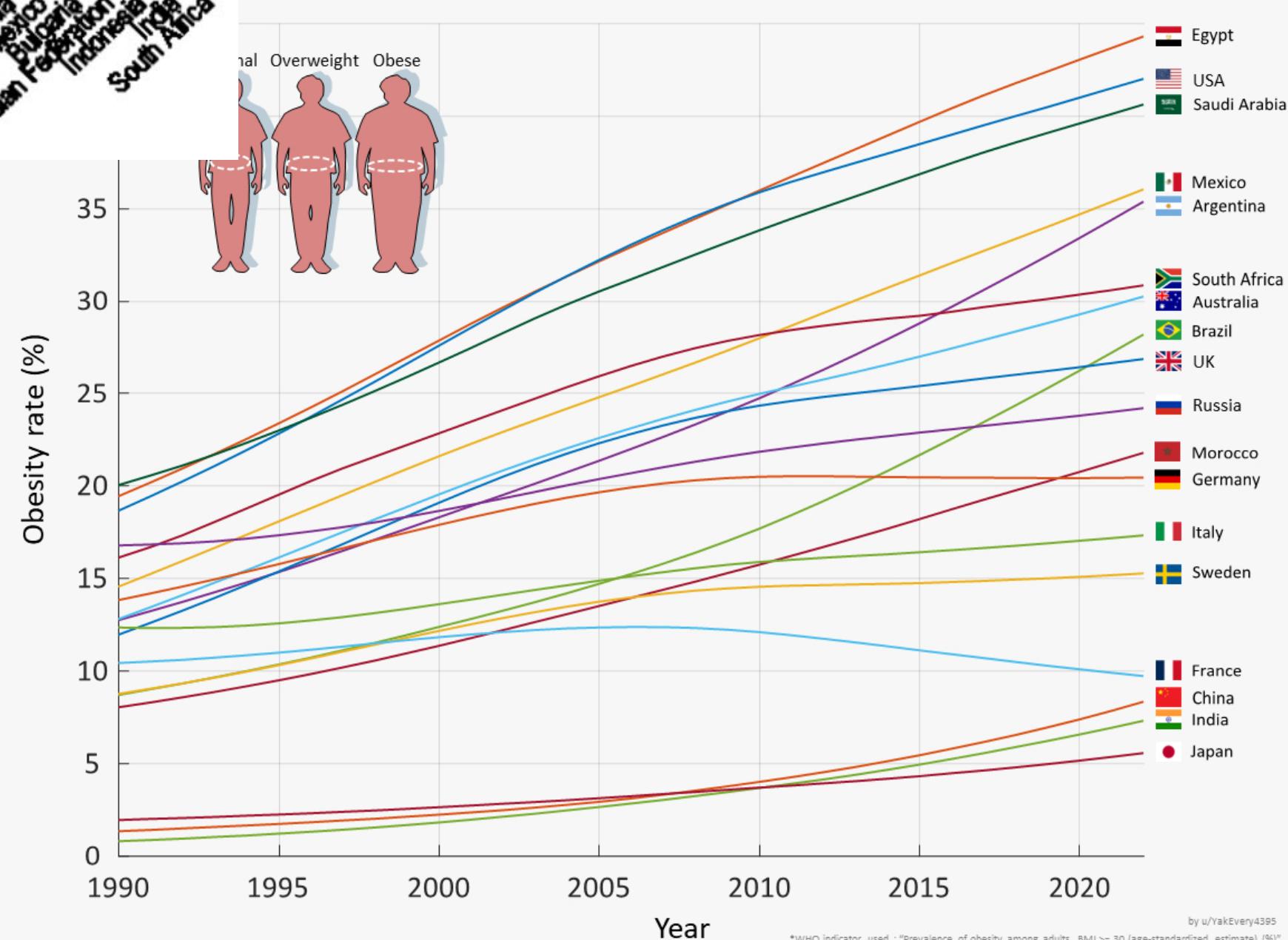
■ Total

◊ Male

△ Female

**Life expectancy (years)**

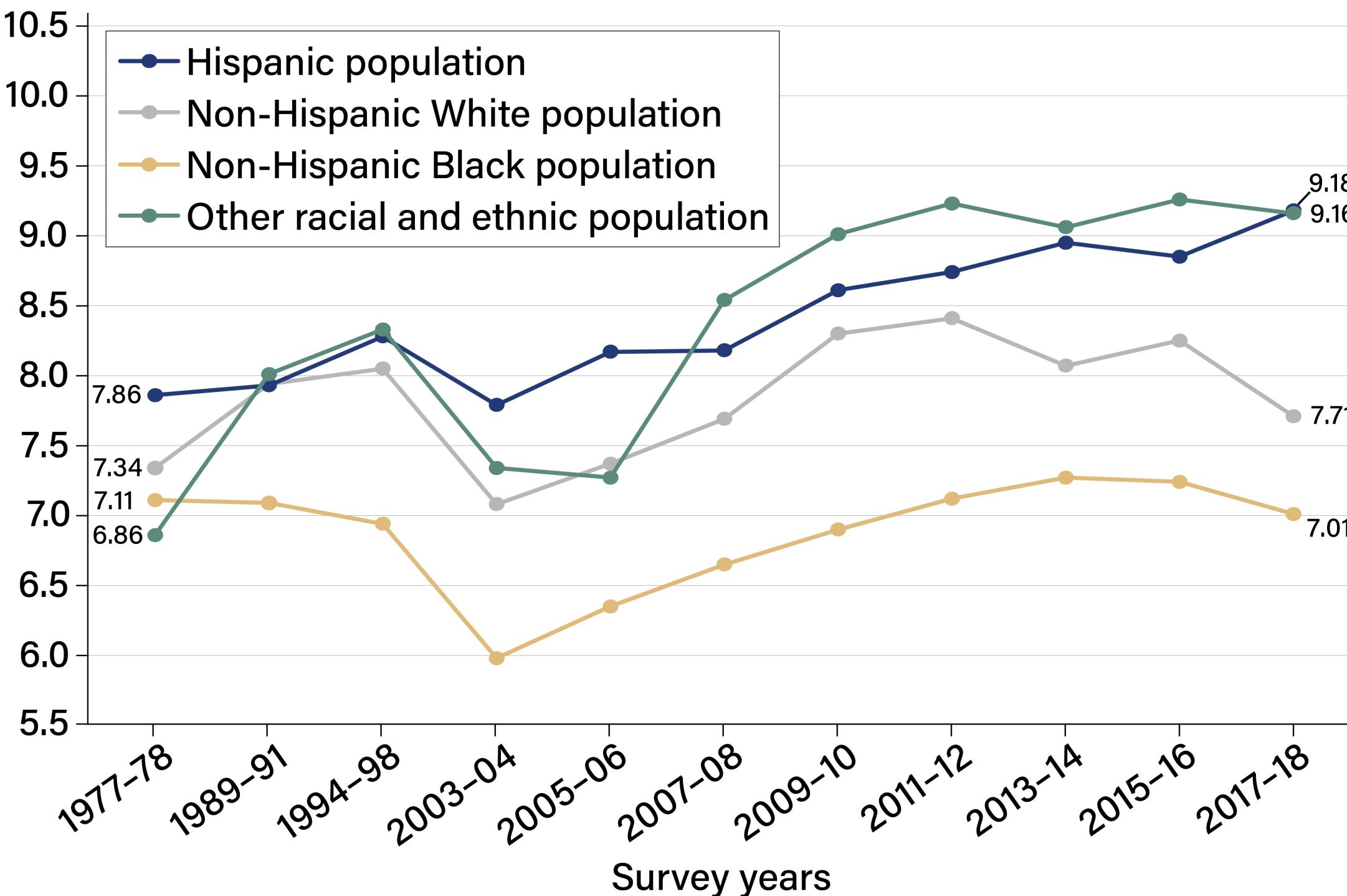
In 1960, the U.S. was #3 in life expectancy (1.5 years more than Japan) but in 2020 it was #36, 6 years less than Japan in part because the U.S. increased its obesity prevalence more than Japan.

**Obesity rate by country**(BMI  $\geq 30$ , data source: WHO\*)

# Poor Dietary Quality Contributes Obesity

## Gaps in dietary fiber density across race and ethnicity have widened over time

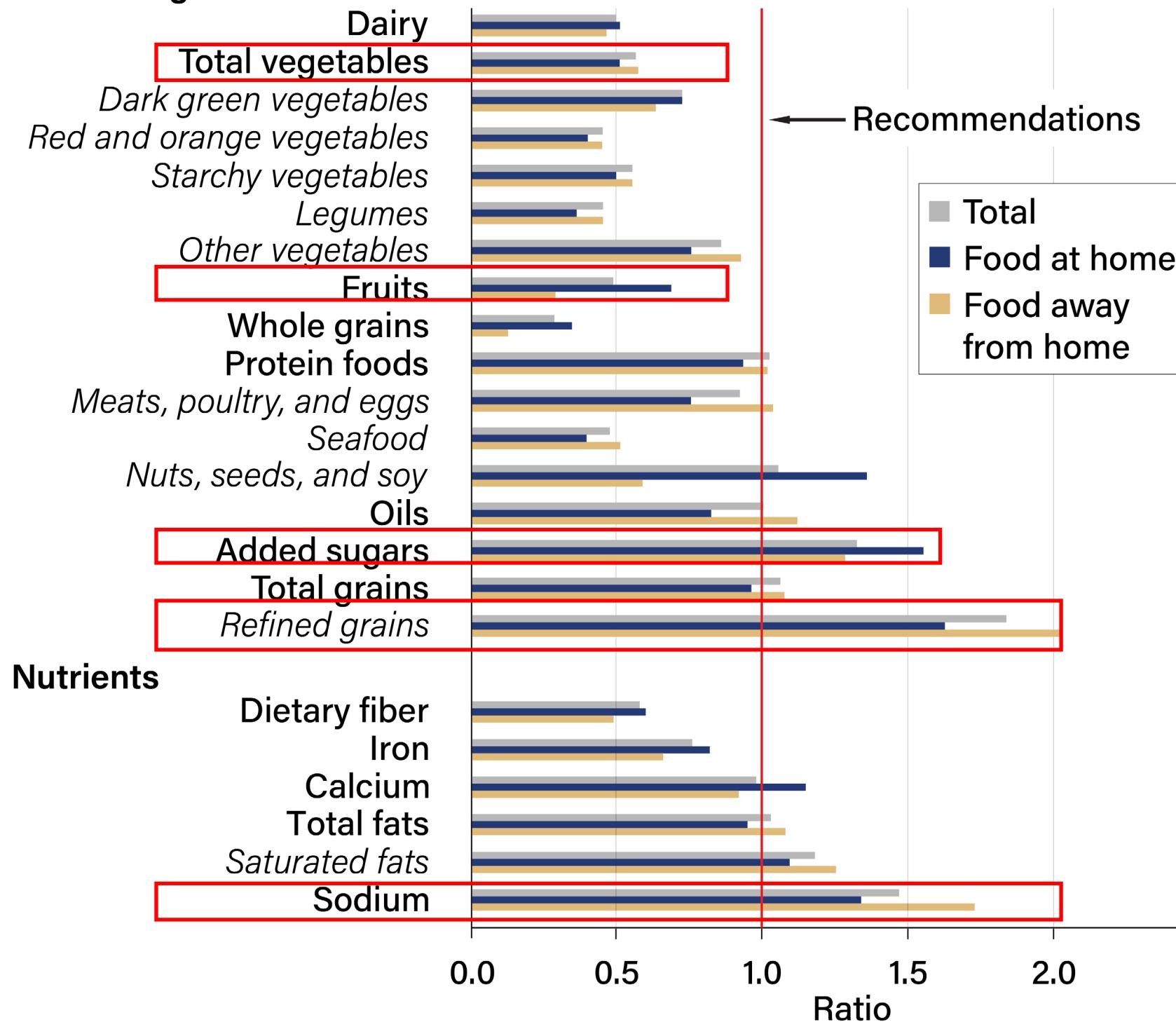
Grams of fiber per 1,000 calories



Source: USDA, Economic Research Service using data from USDA, Agricultural Research Service (ARS), 1977-1978 Nationwide Food Consumption Survey; ARS, 1989-1991, 1994-1996, and 1998 Continuing Survey of Food Intakes by Individuals; and ARS and U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, 2003-2018 What We Eat in America, National Health and Nutrition Examination Survey.

## Dietary quality differs from Federal recommendations for most nutrients and food groups examined

### Food categories



### Nutrients

Note: The **ratio** is the actual consumption densities calculated from comparing survey data with the Federal recommended densities for a diet of 2,000 calories. Density is the amount of food consumed per 1,000 calories.

Source: USDA, Economic Research Service using data from USDA, Agricultural Research Service and U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, 2017–2018 What We Eat in America, National Health and Nutrition Examination Survey. Dietary benchmarks based on Dietary Guidelines for Americans, 2020–2025.

**9 out of 10 Americans<sup>1</sup>**

**Do Not Meet  
Fruit & Vegetable  
Recommendations<sup>2</sup>**



**Overall Fruit &  
Vegetable Eating  
Occurrences Have  
Declined By 10%**

(since 2004)

**People Are Eating Veggies Just Once A Day**

7.5 Times/Week



**Americans Eat Fruits Even Less Often**

5.8 Times/Week

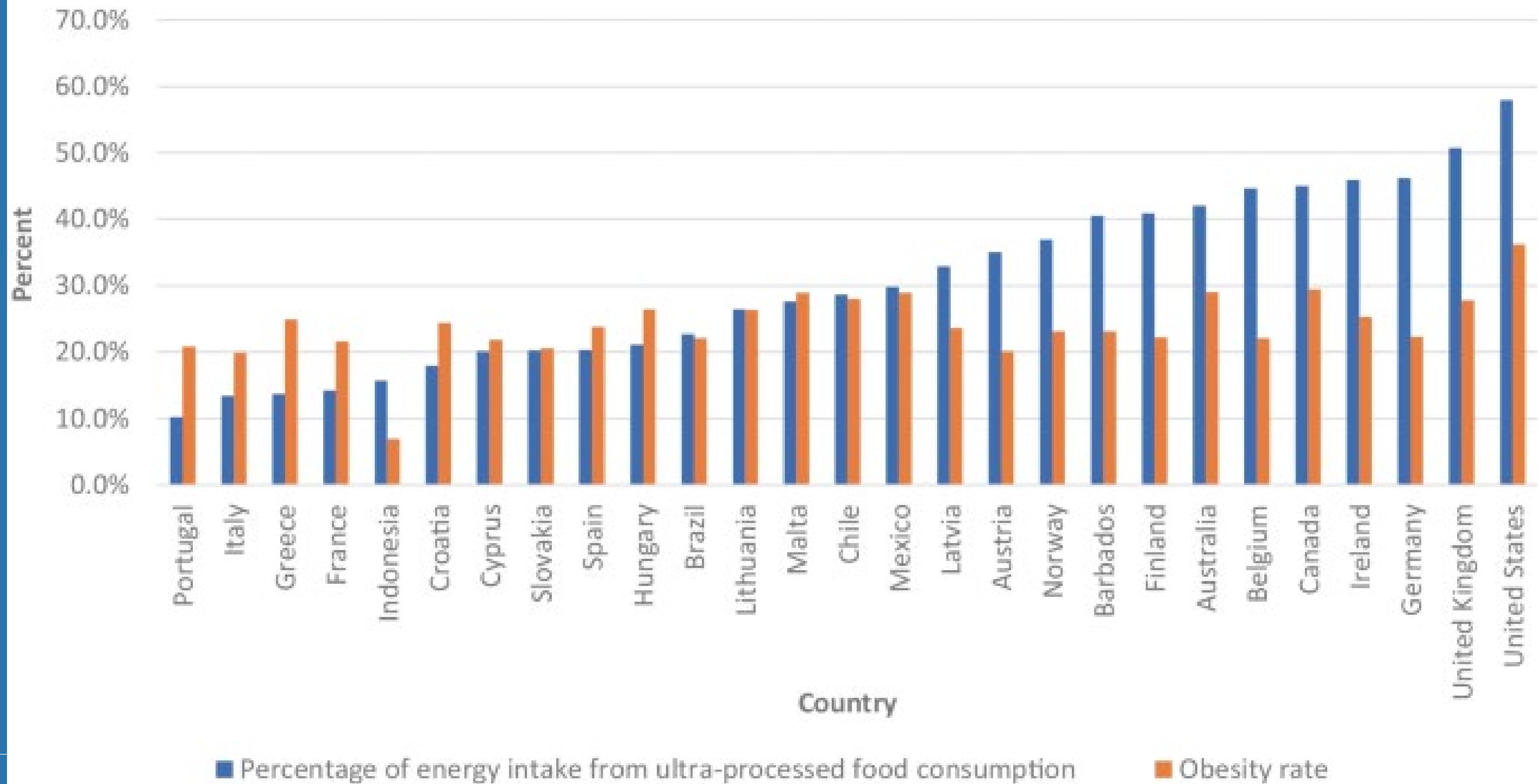


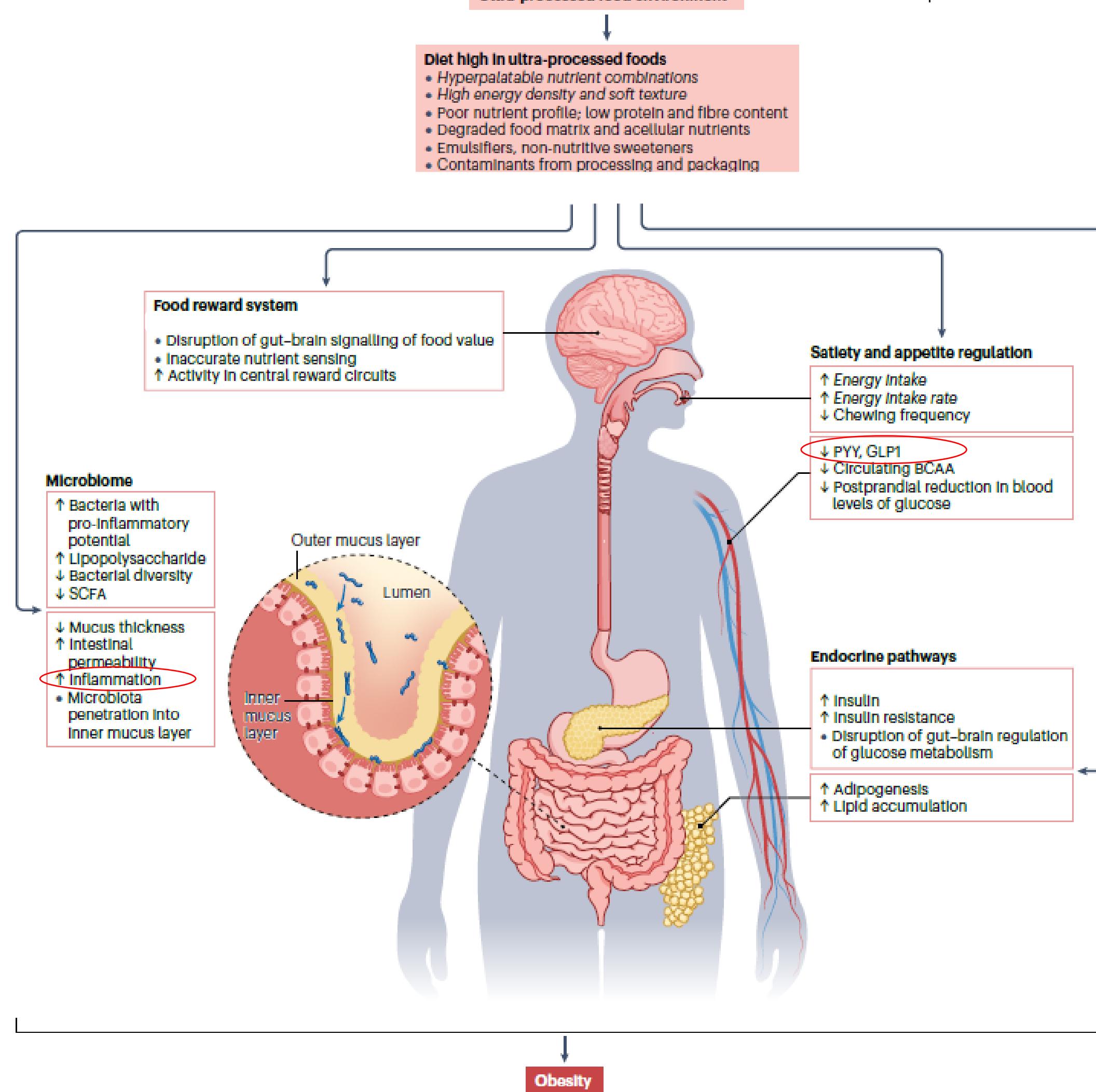
**This Decline Is Driven By Drops In  
Vegetable & Juice Eating Occasions**

**16%**  
Vegetables

**15%**  
Juice

# Total energy intake from ultra-processed foods and obesity rates by country





# Poor Dietary Quality Contributes to Gut Dysbiosis and Increases Systemic Inflammation

## Group 1

### Unprocessed or Minimally Processed Foods

Fresh, dry, or frozen vegetables or fruit, grains, legumes, meat, fish, eggs, nuts and seeds.



Processing includes removal of inedible/unwanted parts. Does not add substances to the original food.

## Group 2

### Processed Culinary Ingredients

Plant oils (e.g., olive oil, coconut oil), animal fats (e.g., cream, butter, lard), maple syrup, sugar, honey, and salt.



Substances derived from Group 1 foods or from nature by processes including pressing, refining, grinding, milling, and drying.

## Group 3

### Processed Foods

Canned/pickled vegetables, meat, fish, or fruit, artisanal bread, cheese, salted meats, wine, beer, and cider.



Processing of foods from Group 1 or 2 with the addition of oil, salt, or sugar by means of canning, pickling, smoking, curing, or fermentation.

## Group 4

### Ultra-Processed Foods

Sugar sweetened beverages, sweet and savory packaged snacks, reconstituted meat products, pre-prepared frozen dishes, canned/instant soups, chicken nuggets, ice cream.



Formulations made from a series of processes including extraction and chemical modification. Includes very little intact Group 1 foods.

Increasing Level of Processing

# WHAT IS GUT DYSBIOSIS?

Gut dysbiosis is an imbalance of bacteria in your gut. When gut dysbiosis occurs, one or more of these changes occur:

- ▶ You lose beneficial bacteria in your gut
- ▶ You get potentially harmful bacteria taking over your gut
- ▶ You have less diverse bacteria in your gut.

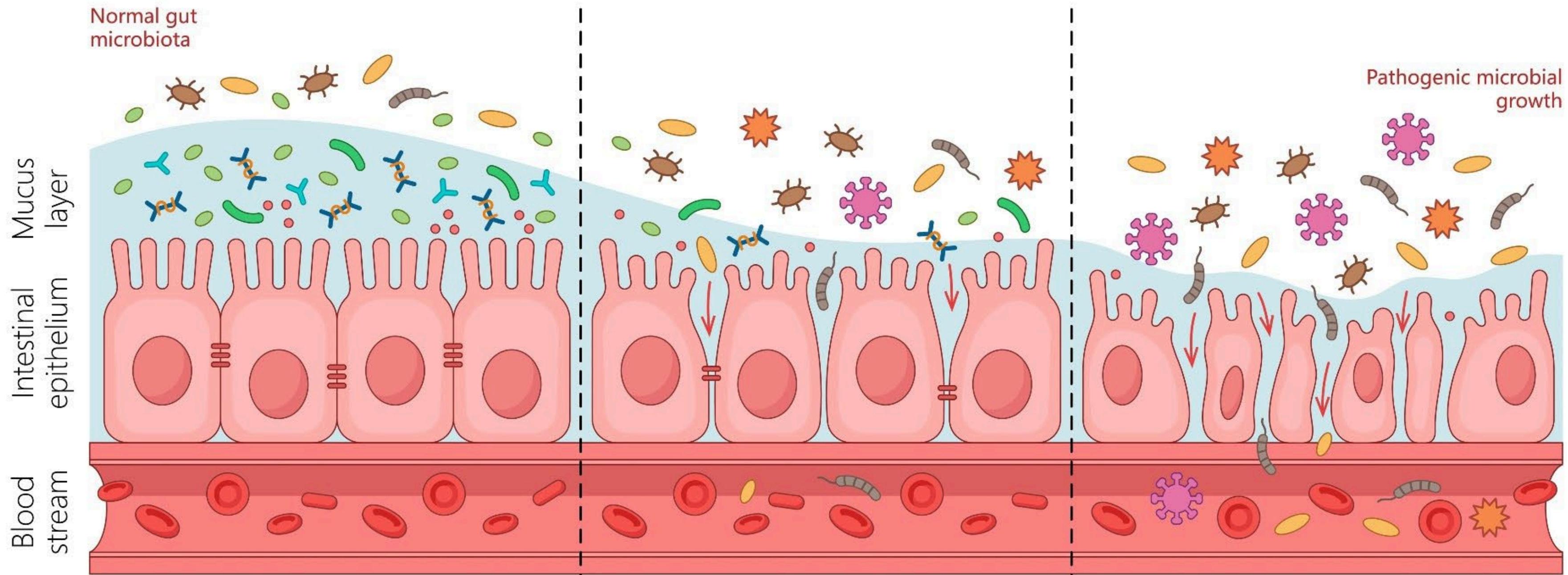


*Most of the bacteria in your gut are actually 'good bacteria', meaning that they will not cause you any harm. The rest of the bacteria are called "opportunistic bacteria" meaning they will not cause you any harm as long as they are kept in check by the good bacteria. However, once they over run the good bacteria, they can wreak havoc on your body and cause gut dysbiosis!*

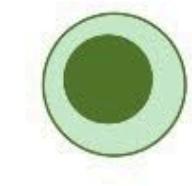
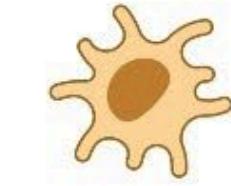
# Symbiosis

# Dysbiosis

# Leaky Gut



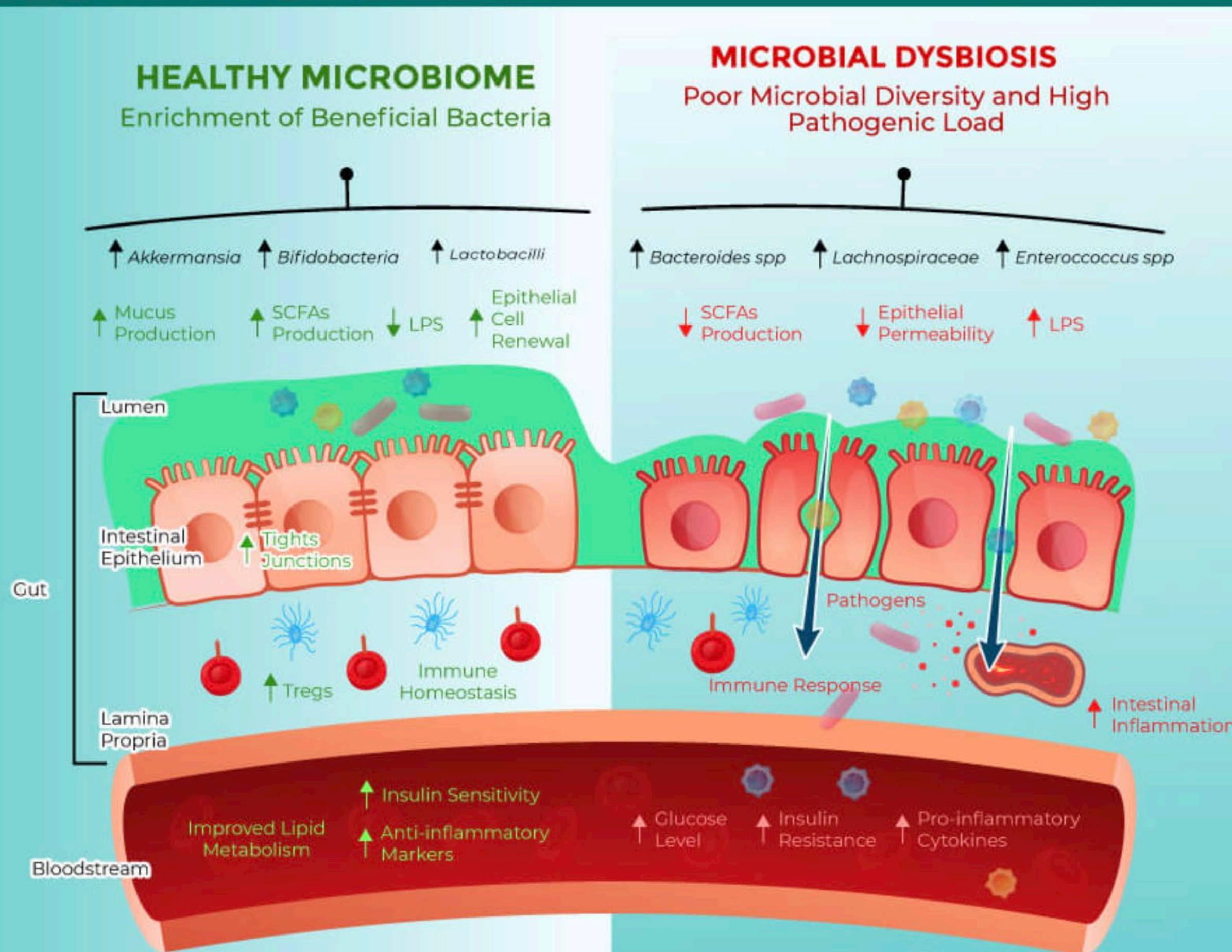
GALT



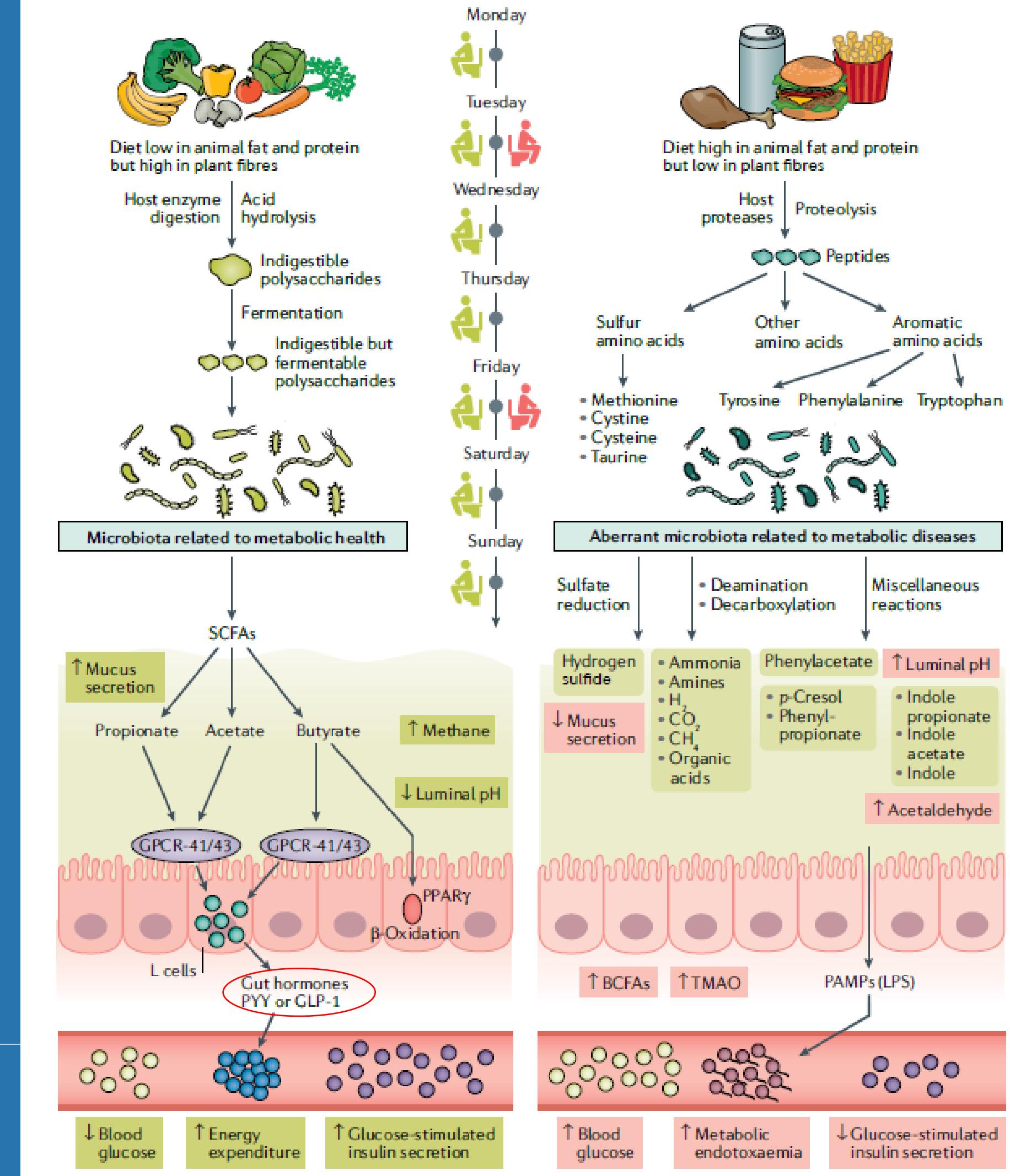
Proinflammatory cytokines

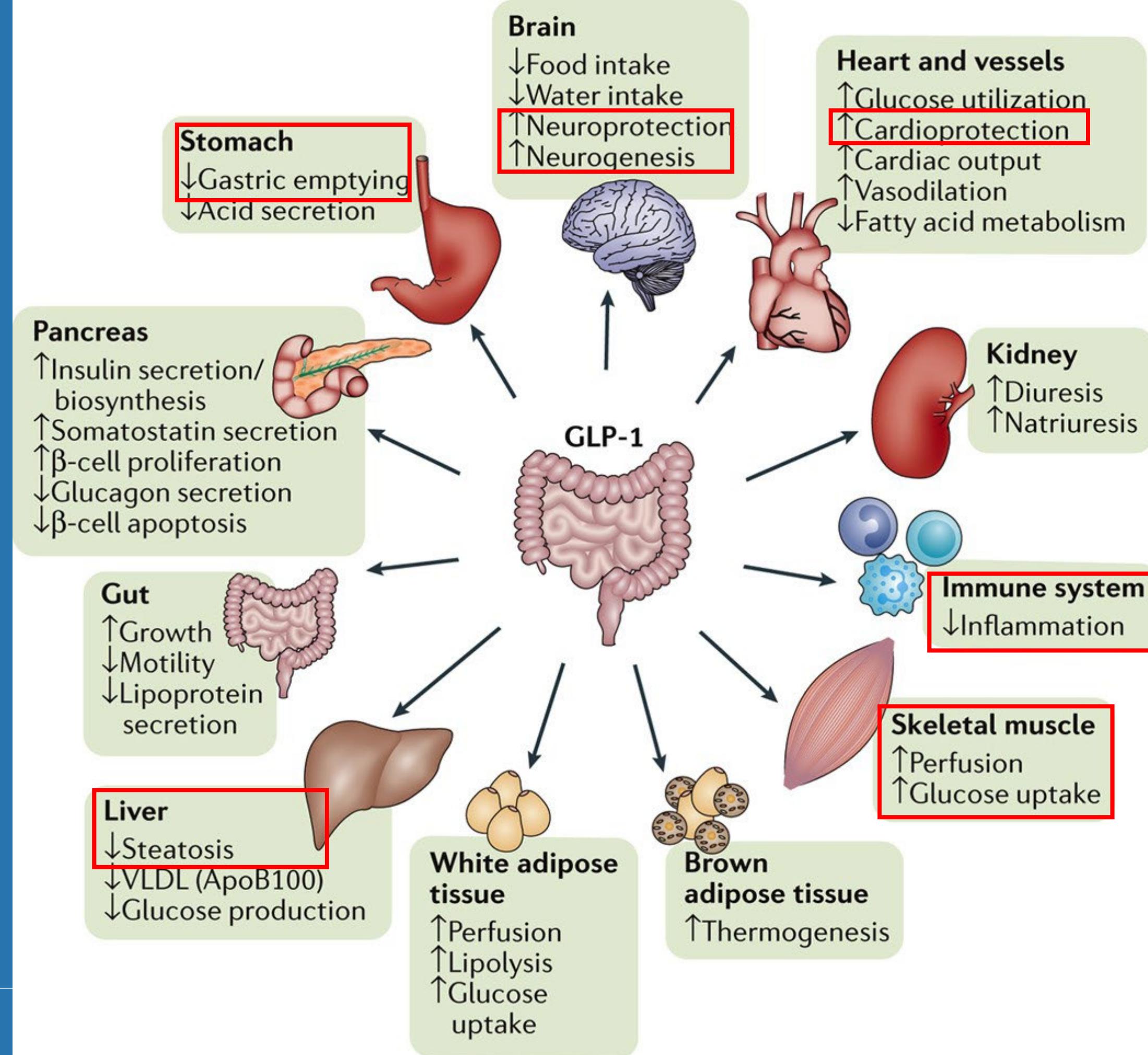
Inflammatory response

# HEALTHY MICROBIOME VS. DYSBIOSIS



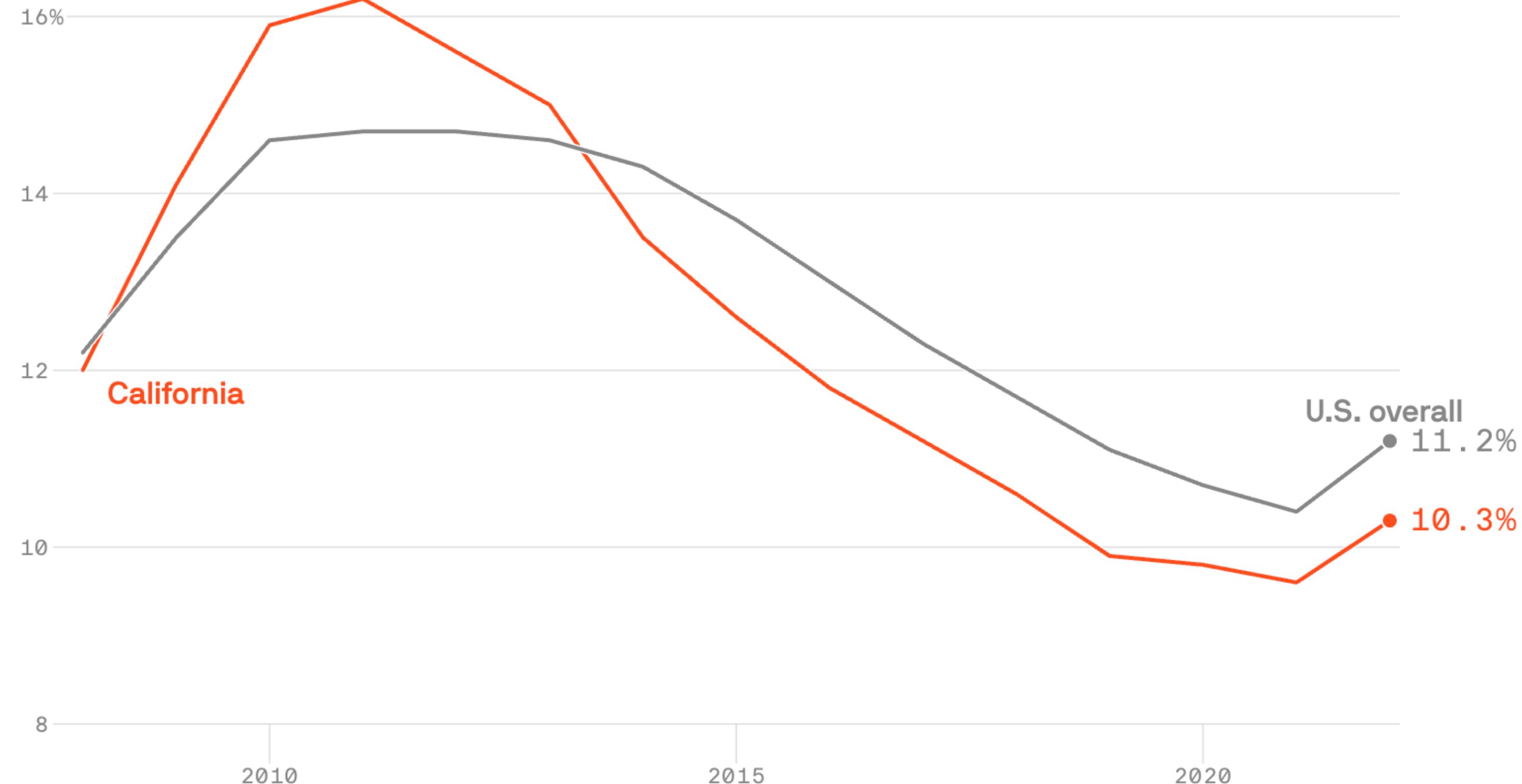
Ultraprocessed foods in excess of 20% of daily calories not only displace gut microbe substrates but also undermine microbial generation of SCFAs by inducing chronic inflammation.



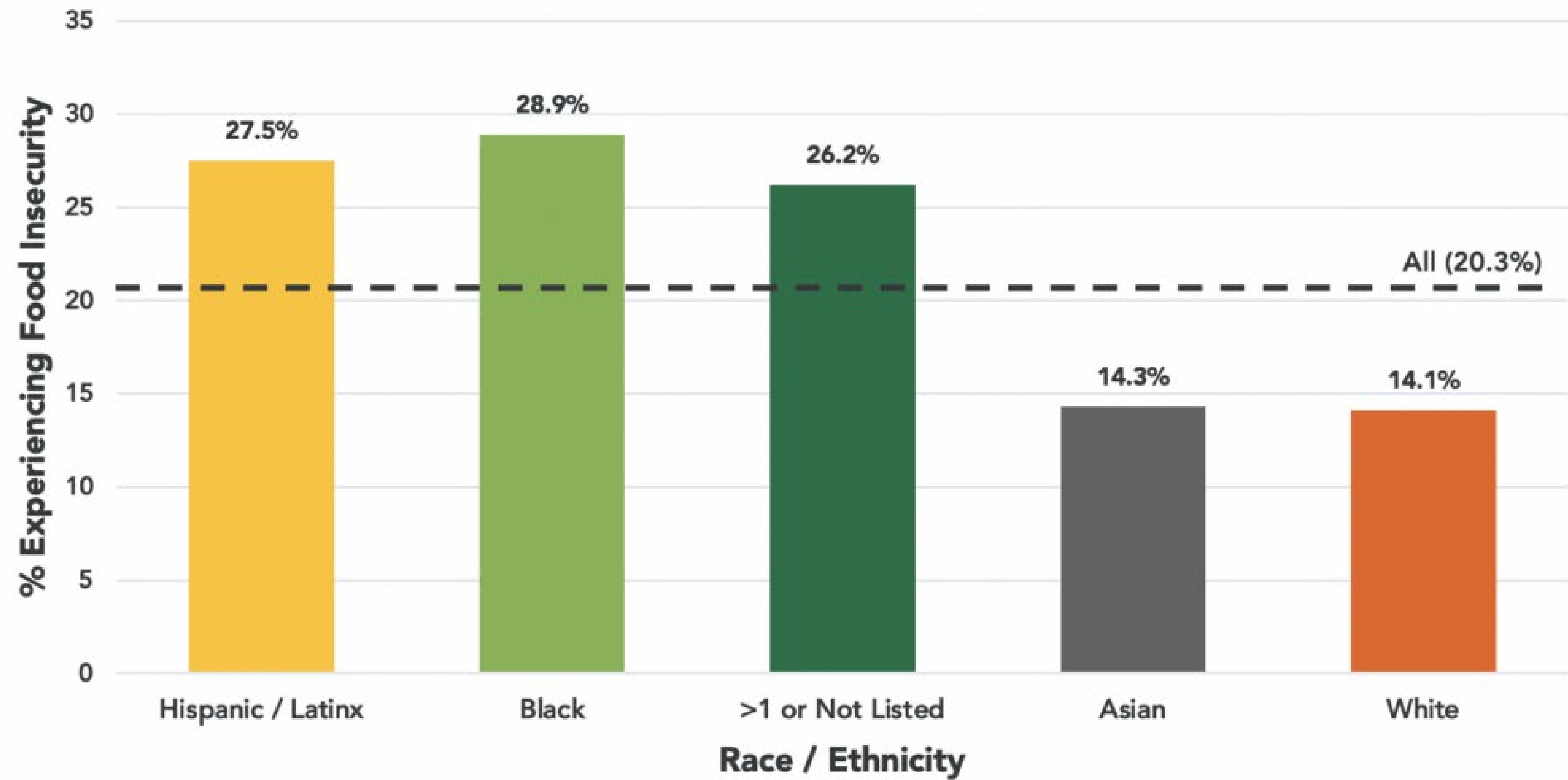


# Share of California households that are food insecure

Three-year rolling average estimate; Annually, 2008-2022



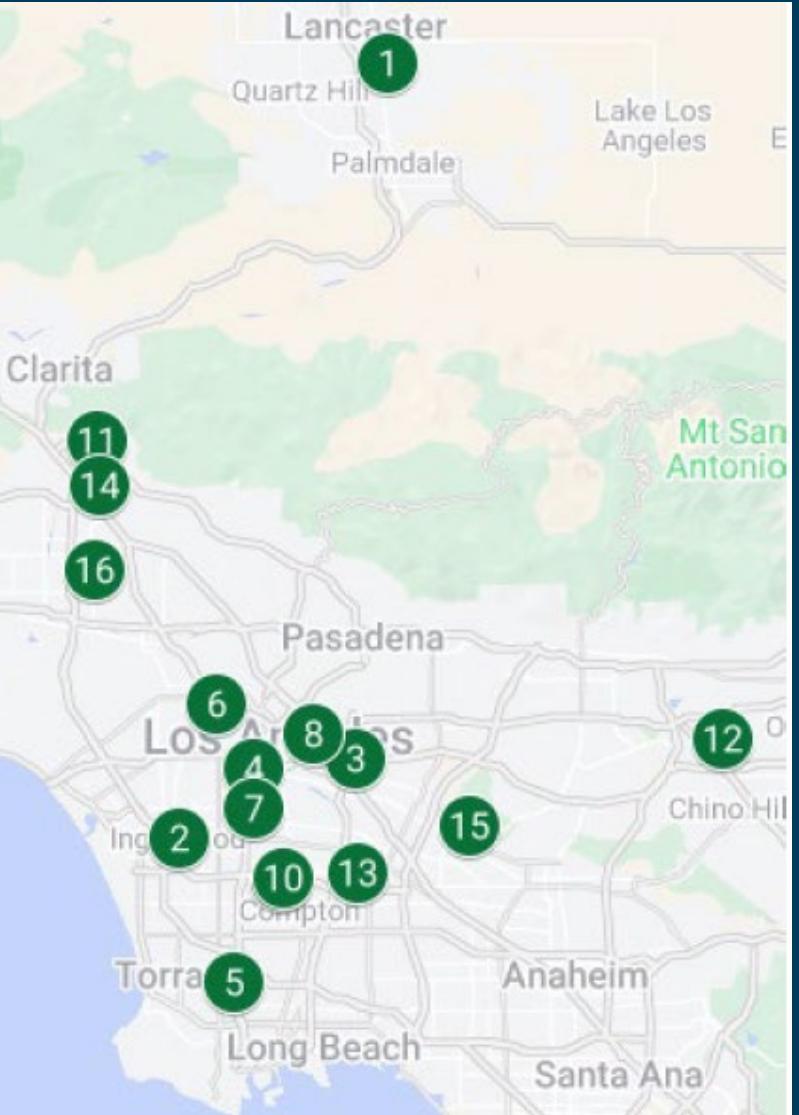
# Food Insecurity in California by Race/Ethnicity (January 2022)



# PARTNERSHIPS



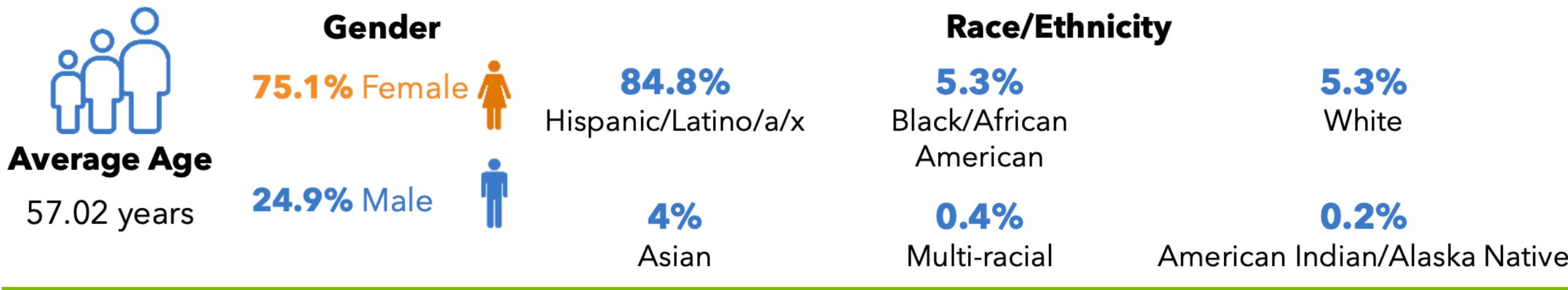
- Community Based Research
- Food Rx Collaborative Fresh Produce Distributions: “goal of the Collaborative is to reduce diet-related chronic diseases by increasing access to healthy food in healthcare settings.”



## Food Rx Community Advisory Board

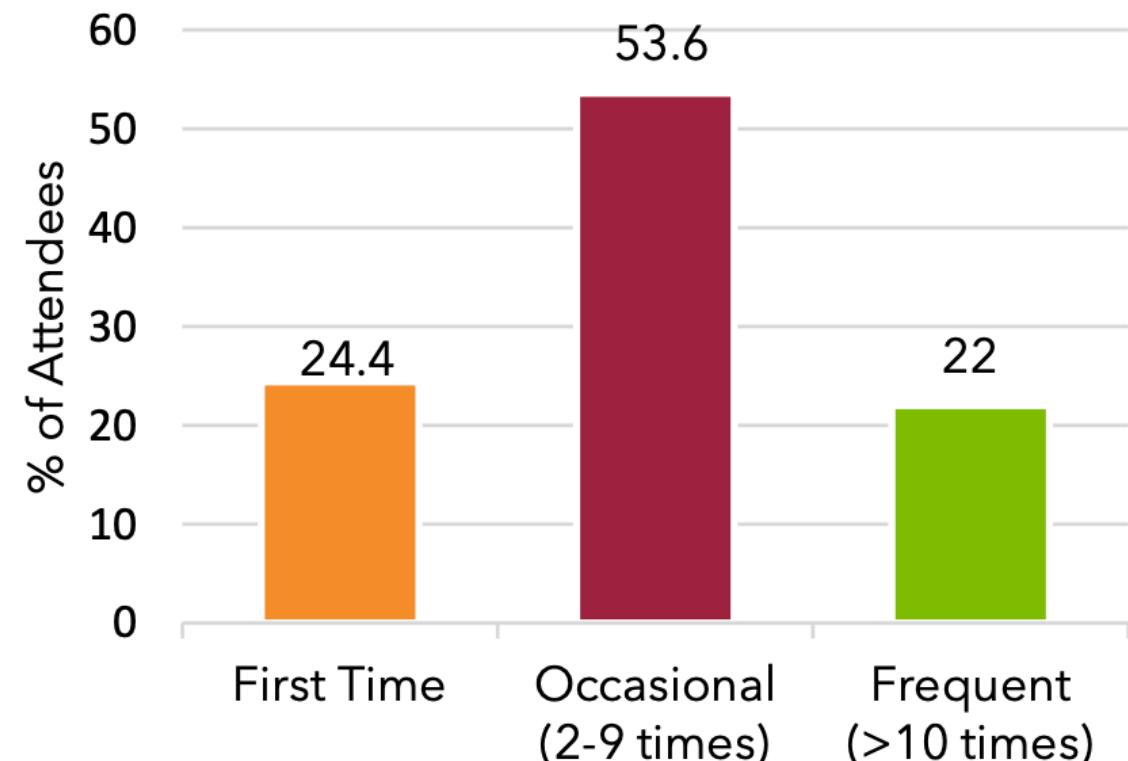
## SURVEY RESULTS (n=497)

### PRODUCE DISTRIBUTION ATTENDEE DEMOGRAPHICS



### ATTENDEE CHARACTERISTICS

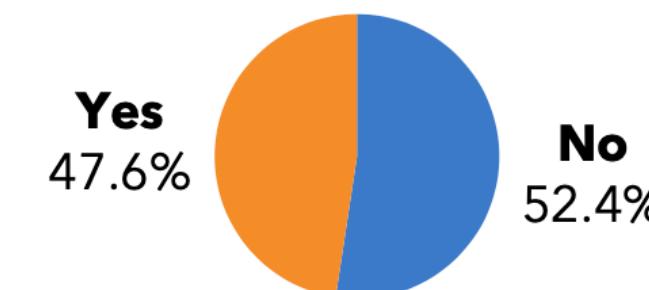
#### Visit Frequency of Produce Distributions by Attendees



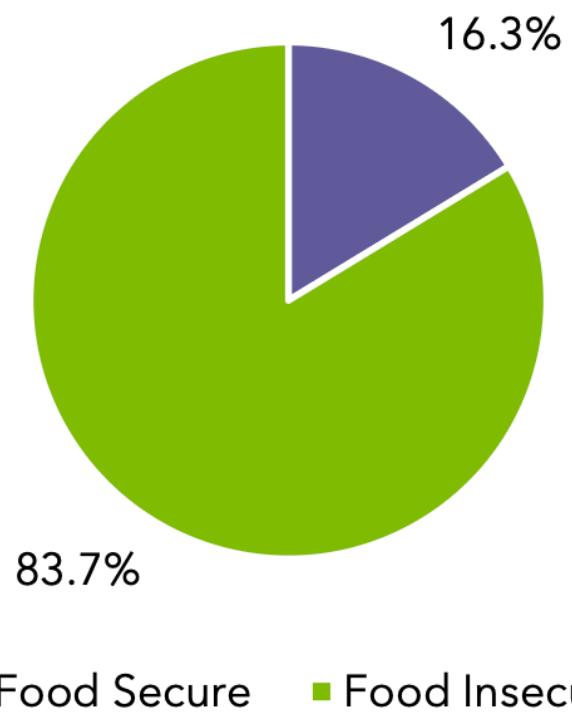
#### Household Size



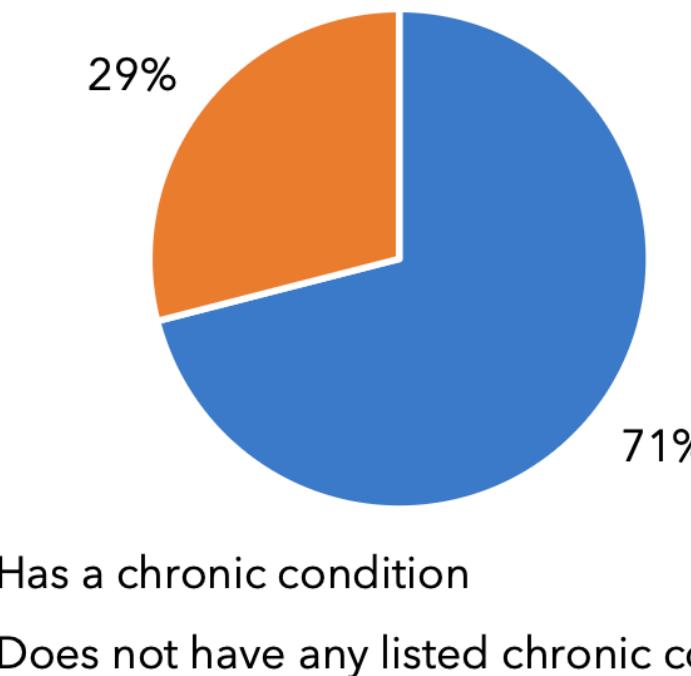
#### Are you a patient at this clinic location?



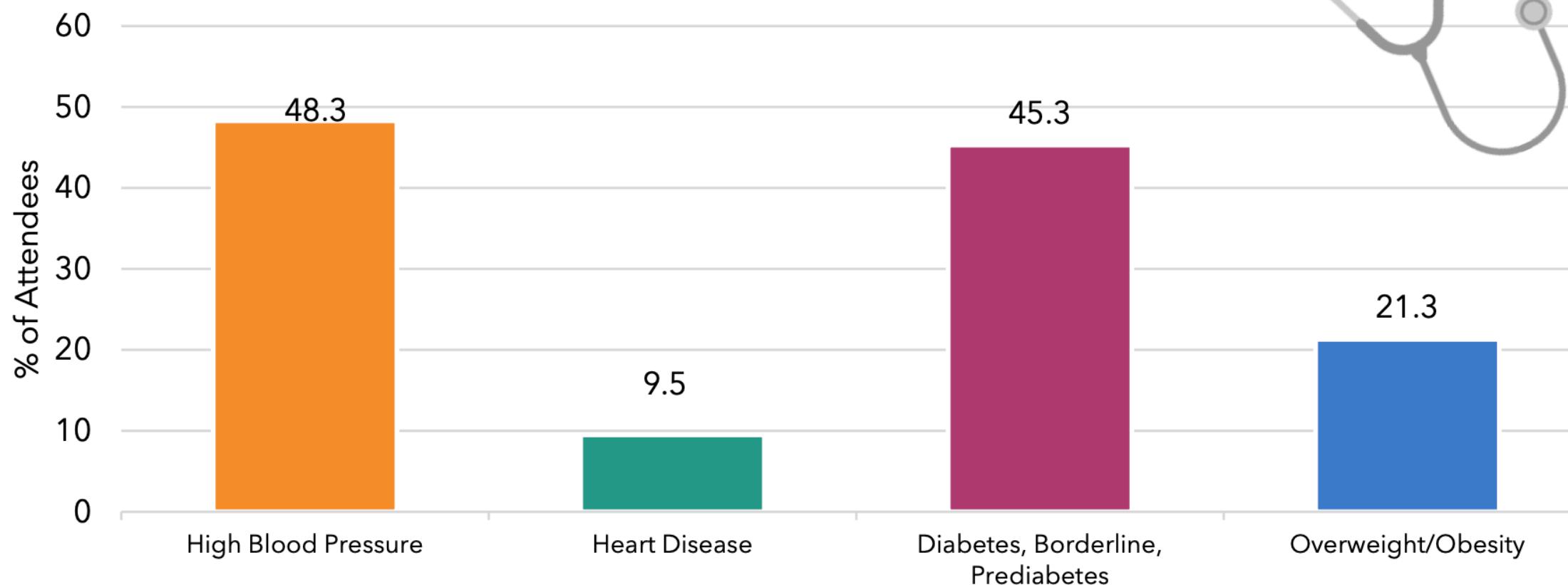
### Food Insecurity



### Have at Least One Diet-Related Chronic Health Condition

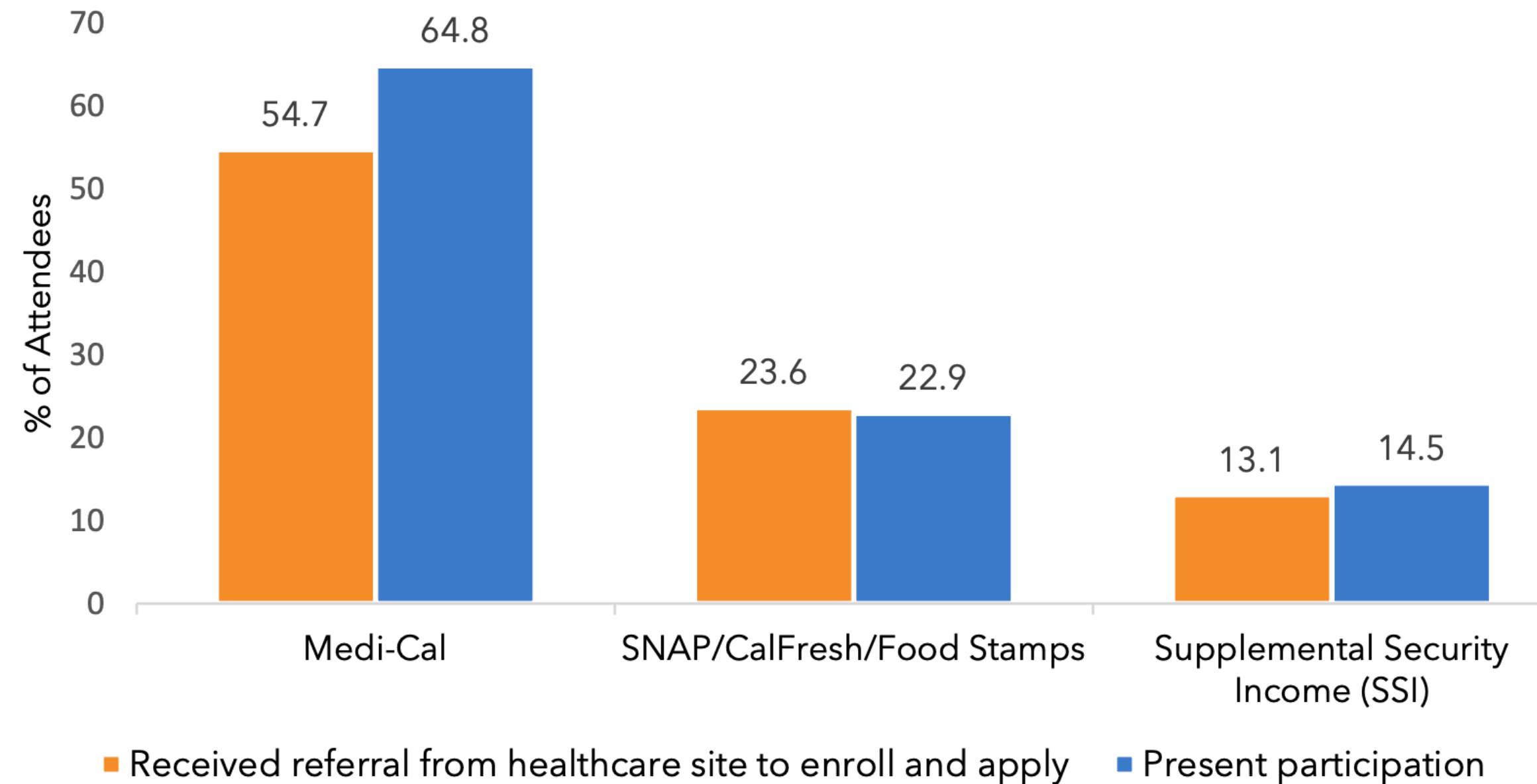


### By Type of Diet-Related Chronic Health Conditions



## ENROLLMENT IN AND REFERRALS TO ASSISTANCE PROGRAMS

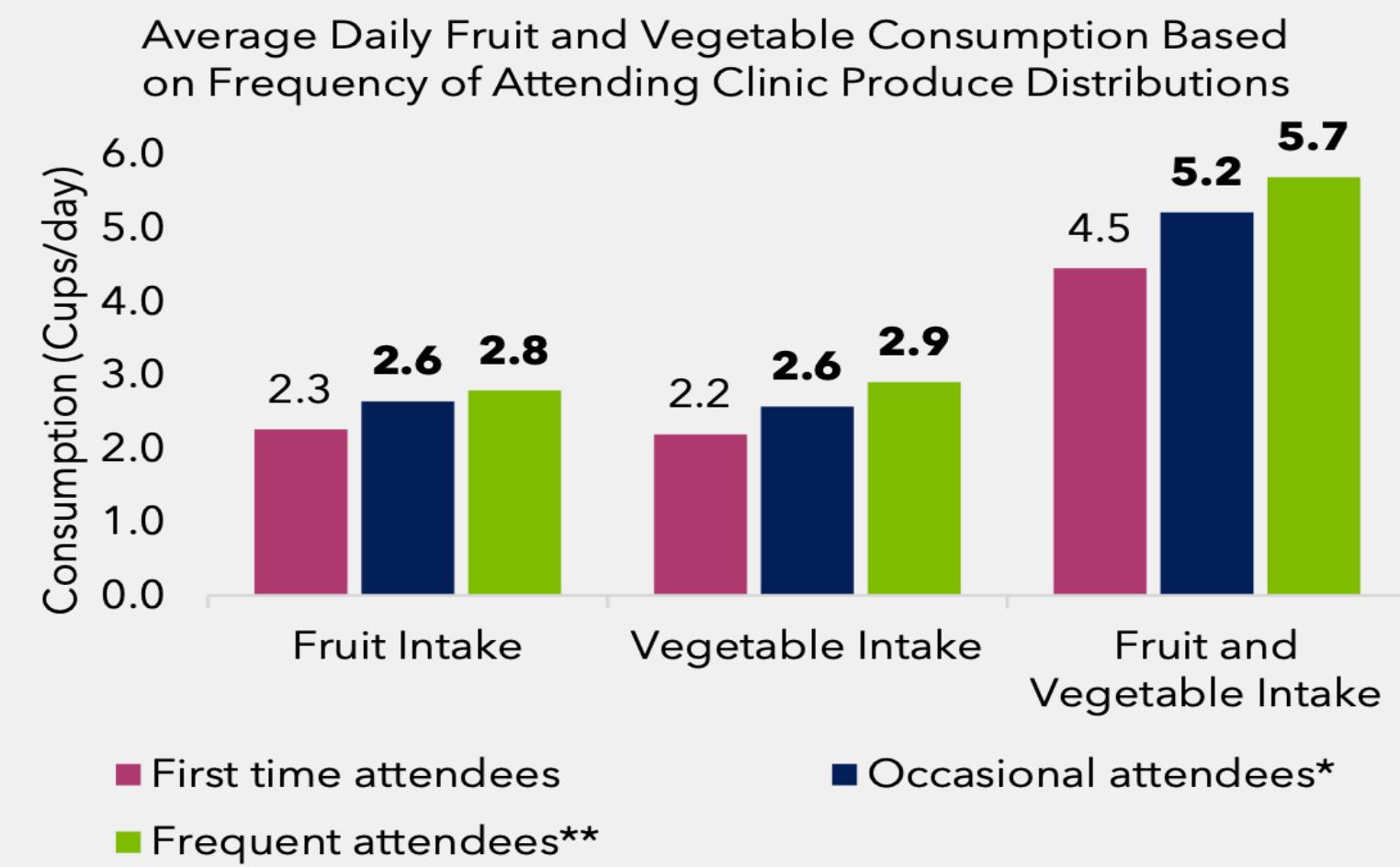
Top three assistance programs that attendees applied to, based on clinic staff referrals, compared to what attendees reported they are enrolled in presently.



**Note:** Medi-Cal is California's Medicaid program; CalFresh is California's Supplemental Nutrition Assistance Program (SNAP).

## OUTCOMES

On average, attendees consumed 2.57 cups of fruits and 2.54 cups of vegetables per day. Those who attended produce distribution events occasionally (2-9 times in the past 12 months) or frequently (ten or more times in the past 12 months) reported a significant increase in fruit, vegetable, and combined fruit and vegetable consumption, compared to first time attendees.



**Bold** = Statistically sig

\* 2-9 times in the last

\*\*  $\geq 10$  times in the last

## ATTENDEE PERCEPTIONS

**Nearly all attendees agreed with the following statements:**

1. This produce distribution has foods that are familiar to me, and I know how to prepare them (93.4%)
2. At this produce distribution, the environment makes me feel welcome (98.4%)
3. At this produce distribution, the staff treat me with dignity and respect (97.8%)



**86.7%** reported eating most or all produce received at events.

### Top reasons for not eating all produce:

1. Produce went bad before I could eat them all (4.8%)
2. Didn't know how to cook or include the produce in my meals (4.6%)
3. Received too much (4.2%)

# RCMAR CHIME 2025-2026 PILOT AWARD

- Goal: Improve produce distributions to more effectively provide produce to a wide-ranging, safety net population
- Aim 1: Assess and understand variation of diet quality at a FoodRx produce distribution event pilot site amongst older adult participants using two different diet quality assessment tools
- Aim 2: Assess which dietary assessment tool is more effective in predicting BMI
- Aim 3: Assess current success and challenges of FoodRx produce distribution events from perspective of older adults

## Methods:

- Aim 1 & 2: Recruit at least 120 older adults from pilot site to complete dietary quality assessments
  - Diet Quality Assessments:
    - Global Diet Quality Questionnaire
    - Mediterranean Diet Scale
- Aim 3: Conduct semi-structured interviews from a random sample of at least 20 adults aged 60+ who have attended multiple (more than 1) LA Food Rx PDP events at our pilot site and have participated in the Aim 1 survey of older adults

# MEDITERRANEAN DIET SCORE

**Table S4. Quantitative 14-item Score of Compliance with the Mediterranean Diet.**

<b>Foods and frequency of consumption</b>	<b>Criteria for 1 point*</b>
1 Do you use olive oil as main culinary fat?	Yes
2 How much olive oil do you consume in a given day (including oil used for frying, salads, out of house meals, etc.)?	4 or more tablespoons
3 How many vegetable servings do you consume per day? (1 serving = 200g - consider side dishes as 1/2 serving)	2 or more ( <i>at least 1 portion raw or as salad</i> )
4 How many fruit units (including natural fruit juices) do you consume per day?	3 or more
5 How many servings of red meat, hamburger, or meat products (ham, sausage, etc.) do you consume per day? (1 serving = 100-150 g)	Less than 1
6 How many servings of butter, margarine, or cream do you consume per day? (1 serving = 12 g)	Less than 1
7 How many sweet/carbonated beverages do you drink per day?	Less than 1
8 How much wine do you drink per week?	7 or more glasses
9 How many servings of legumes do you consume per week? (1 serving = 150 g)	3 or more
10 How many servings of fish or shellfish do you consume per week? (1 serving: 100-150 g fish, or 4-5 units or 200 g shellfish)	3 or more
11 How many times per week do you consume commercial sweets or pastries (not homemade), such as cakes, cookies, biscuits, or custard?	Less than 3
12 How many servings of nuts (including peanuts) do you consume per week? (1 serving = 30 g)	3 or more
13 Do you preferentially consume chicken, turkey or rabbit meat instead of veal, pork, hamburger or sausage?**	Yes
14 How many times per week do you consume vegetables, pasta, rice, or other dishes seasoned with <i>sofrito</i> (sauce made with tomato and onion, leek, or garlic, simmered with olive oil)?	2 or more

\* 0 points if these criteria are not met.

\*\* 1 point for vegetarians.

# GLOBAL DIET QUALITY QUESTIONNAIRE

	Yesterday, did you eat any of the following foods:	(circle answer)
1	Rice, white bread, pasta, wheat tortillas, or gorditas?	YES or NO
2	Corn tortillas, tamales, whole corn, whole grain bread, or oats?	YES or NO
3	Potato or plantain?	YES or NO
4	Beans, refried beans, lentils, peas, garbanzos, or fava beans?	YES or NO
	Yesterday, did you eat any of the following vegetables:	
5	Carrots, pumpkin, or red bell pepper?	YES or NO
6	Spinach, broccoli, chard, watercress, or wild greens (quelites)?	YES or NO
7.1	Tomatoes, green tomato, lettuce, zucchini, or cucumber?	YES or NO
7.2	Nopales, chayote, celery, green beans, or cabbage?	YES or NO
	Yesterday, did you eat any of the following fruits:	
8	Mango, papaya, cantaloupe, or mamey?	YES or NO
9	Orange, mandarin, or grapefruit?	YES or NO
10.1	Banana, apple, pineapple, watermelon, or strawberries?	YES or NO
10.2	Avocado, pear, guava, Mexican plum, grapes, or peaches?	YES or NO
	Yesterday, did you eat any of the following sweets:	
11	Sweet bread, cookies, cakes, donuts, churros, or buñuelos?	YES or NO
12	Candy, chocolates, lollipop, popsicle, ice cream, dulce de leche, or flan?	YES or NO
	Yesterday, did you eat any of the following foods of animal origin:	
13	Eggs?	YES or NO
14	Cheese or requesón?	YES or NO
15	Yogurt?	YES or NO
16	Ham, Hot doggs, chorizo, longaniza, smoked meat, bacon, or bologna?	YES or NO
17	Beef, beef organs, liver, or sheep?	YES or NO
18	Pork?	YES or NO
19	Chicken?	YES or NO
20	Fish, tuna, sardines, shrimp, or seafood?	YES or NO
	Yesterday, did you eat any of the following other foods:	
21	Peanuts, pumpkin seeds, sunflower seeds, or walnuts?	YES or NO
22	Potato chips such as Ruffles, Doritos, Rancheritos, Sabritas, Cheetos, or Takis?	YES or NO
23	Instant soup, or instant noodles such as Maruchan?	YES or NO
24	Fried snacks, chicharrines, French fries, chicharrón, or fried chicken?	YES or NO
	Yesterday, did you have any of the following beverages:	
25	Milk or leche con chocolate?	YES or NO

Component	Description	GDQQ Food Groups Included	Scoring Approach
<b>Global Diet Quality Questionnaire (GDQQ)</b>	A 29-item yes/no questionnaire assessing whether respondents consumed specific food groups during the previous day or night.	Includes 29 food groups covering a range of healthy and limit foods. Respondents are asked whether they consumed any of up to 7 sentinel foods per question, which are the most commonly consumed food items in each food group in each country setting.	Each food group is scored based on “yes” (1) or “no” (0) consumption in the previous 24 hours.
<b>GDR-Healthy Score</b>	Captures consumption of foods aligned with WHO recommendations for fruits, vegetables, whole grains, pulses, nuts/seeds, and dietary fiber.	<b>Consists of 9 healthy food groups positively associated with meeting WHO recommendations.</b>	Higher scores indicate better diet quality and higher likelihood of meeting WHO recommendations. <u>Possible range: 0–9.</u>
<b>GDR-Limit Score</b>	Captures consumption of foods negatively associated with diet quality, including those high in free sugar, salt, total and saturated fat, and red or processed meat.	<b>Consists of 8 limit food groups; the processed meat item is counted twice.</b>	Higher scores indicate lower diet quality and greater deviation from WHO recommendations. <u>Possible range: 0–9.</u>
<b>GDR Total Score</b>	Composite indicator of overall diet quality combining healthy and limit components.	Based on GDR-Healthy and GDR-Limit food group scoring.	Calculated as GDR-Healthy – GDR-Limit + 9, producing a final score ranging 0–18.

## Progress to Date:

- IRB approval
- Community partners established with UCLA as vendor
- Study site solidified and approved
- Gift cards ordered for incentive

## Future Steps:

- Site walk through with community partner pending
- Expansion of FoodRx community advisory board (trainees, promotoras, community health workers, health educators, nutritionists, etc)

# UC CASCADE 2025-2026 PILOT AWARD

- Our proposed intervention, “*Diet Quality Matters*” is designed for low-income, food insecure adults and incorporates motivational interviewing, uses hands-on meal preparation, and facilitated discussion to teach participants feasible actions to improve long term diet quality.
- Our pilot intervention centers around a community recipe share model with a pre- and post-intervention survey focused on **1) food resource management (FRM) skills, 2) self-confidence, 3) food insecurity and 4) includes a U.S.-adapted version of the PREDIMED 14-item Mediterranean diet scale (MDS) along with culturally appropriate Global Dietary Quality Questionnaire (GDQQ)** to assess food quality and long-term cardiovascular disease risk

## Diet Quality Matters (DQM) Intervention

- Based on prior study in similar population
- Hoping to add motivational interviewing, diverse community of LA
- Also assessing diet quality in large sample of Food Rx

Pre-survey with motivational interviewing anchor question and Biomarkers (height, weight, blood pressure)

Video on Nutrition Education followed by taste testing and group discussion (x3)

**~3 month follow up~**

Post-survey and Biomarkers (height, weight, blood pressure)

Planning for verbal informed consent, \$15 compensation for each session completion

Community partners and CAB will provide input on actual curriculum/taste testing to be provided



# Diet Quality Matters Intervention Menu

- Session 1 - *Three Sisters Salad* <https://eatfresh.org/recipe/main-dish-side-dish-salads/three-sisters-salad/>
- Session 2 - *Tuna Boats* <https://eatfresh.org/recipe/main-dish/tuna-boats/>
- Session 3 - *No Cook Chocolate Pudding* <https://eatfresh.org/recipe/desserts/no-cook-chocolate-pudding/>

## Progress to Date:

- IRB approval
- Community partners established with UCLA as vendor

## Current Roadblocks:

- Previous study site no longer able to accommodate study\*

## Future Steps:

- Meeting with community partners to brainstorm new site
- Any new community partners to help fulfill needs at current site?
- FoodRx CAB feedback/advice

# Summary

## What People-Centered Research Recognizes

Health is shaped by **daily realities**: work, income, identity, trust, and access

People do not experience risk in isolation—**systems create constraints and opportunities**

Lived experience is **evidence**, not anecdote

## Why This Matters for Nutrition & Chronic Disease

Nutrition behaviors occur within **real-life limits** (time, cost, safety, culture)

Chronic disease risk reflects **structural exposure**, not individual failure

Effective interventions begin by **listening to people first**

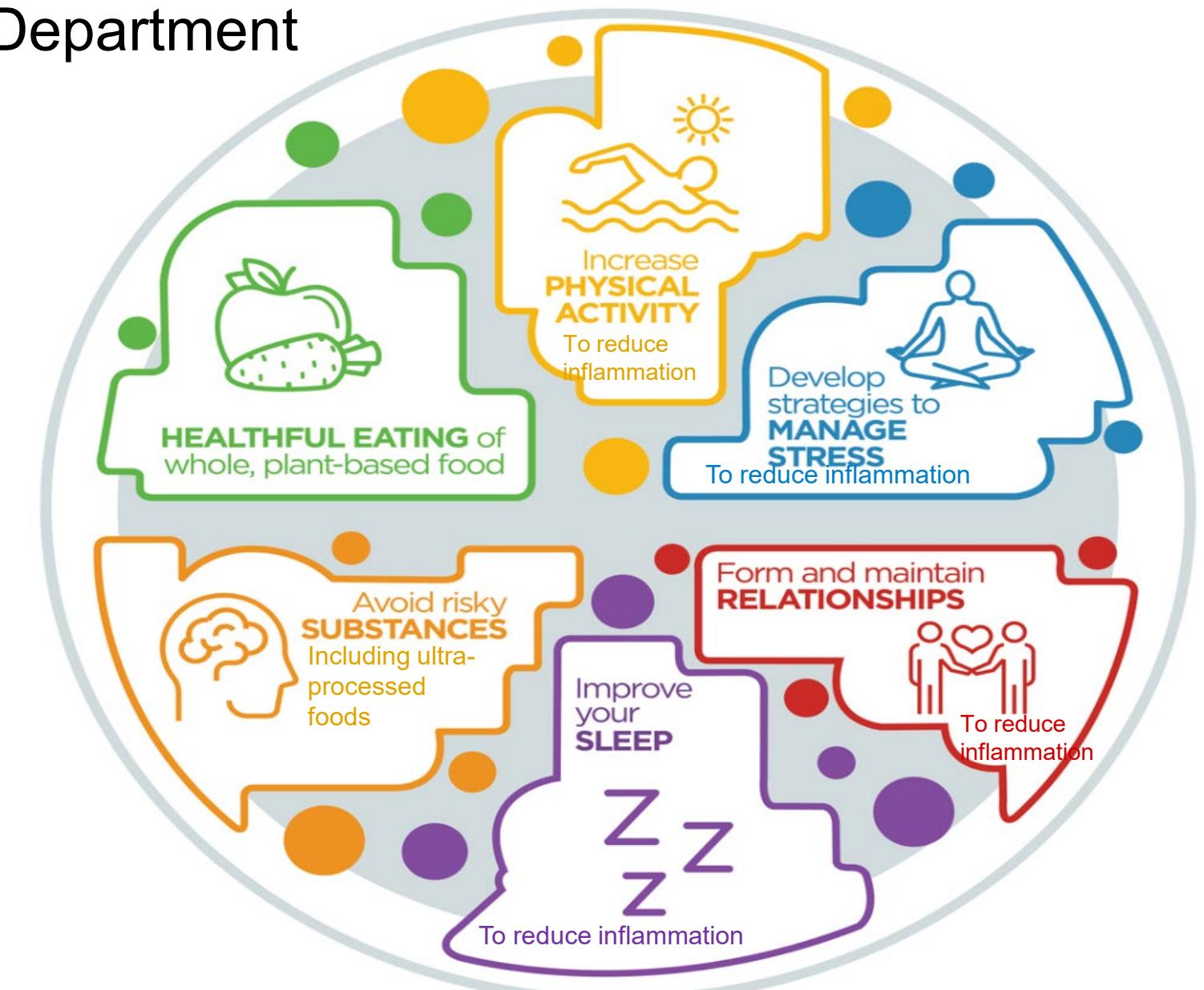
## Core Principle

**Research to improve nutrition-related chronic disease must be centered on people's lived experiences—  
because equity starts with first understanding how people actually live.**

# Acknowledgements

- Bruin Scholar Award Committee
- Gerardo Moreno, MD MS
- William McCarthy, PhD
- Joann Elmore, MD, MPH
- Nina Harawa, PhD
- Daphne Calmes, MD
- Kenechukwu Ojukwu, MD, MPP, MS
- Arleen Brown, MD, PhD
- Alejandra Casillas, MD, MSHS
- Gloria Moon, MSW, MPH
- Fatinah Darwish-Elsherbiny, MPH, RDN
- Julia Caldwell MPH, PhD
- Adrienne Markworth
- Melissa Arvizu, MPH, MBA
- Yelba Castellon-Lopez, MD, MPH

- Food Rx Community Advisory Board
- UCLA RCMAR CHIME
- UC CASCADE
- NCSP Mentors and Fellows
- NRSA Mentors and Fellows
- Alexandria Thomas, MD, MS
- Family and Friends
- UCLA FM Department



# THANK YOU

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