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## THE IMPACT HERBS & SPICES HAVE ON IMPROVING DIET QUALITY

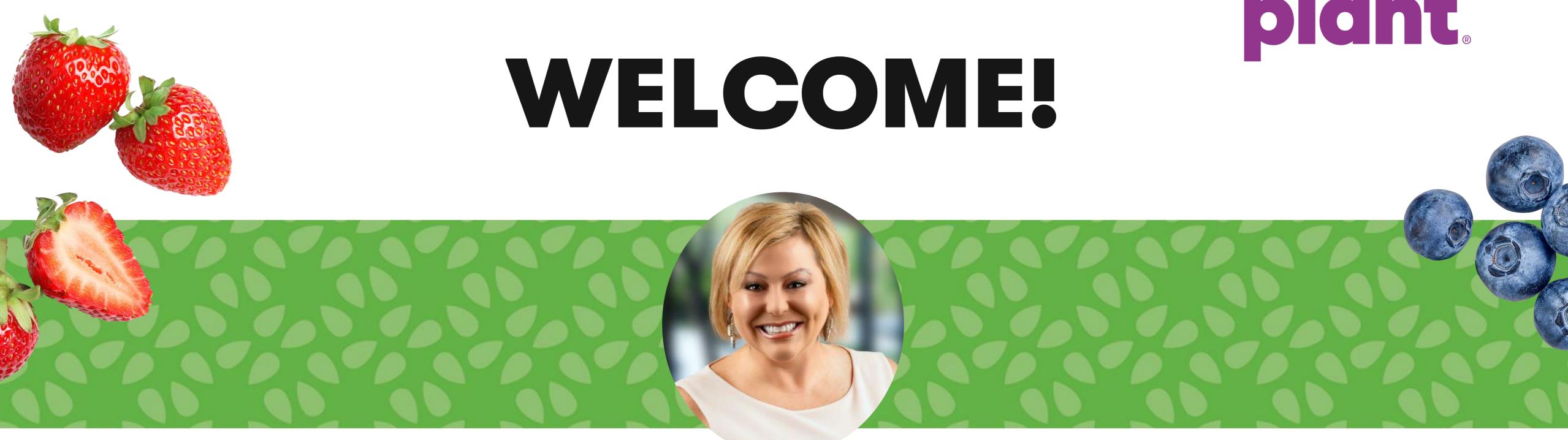
With Kristina Petersen, PhD, APD, FAHA

BROUGHT TO YOU BY

#### HEALTH & WELLNESS WEBINAR







#### **Katie Calligaro**



- Director, Marketing & Communications
  - The Foundation for Fresh Produce





The award-winning Have A Plant<sup>®</sup> campaign is committed to helping consumers live happier, healthier lives by boosting appeal for fruits and vegetables.

Have A Plant<sup>®</sup> programs and the website **fruitsandveggies.org** are a valuable resource for health and wellness professionals.















GOLDEN ARC AWARDS





PRSA

## **ABOUT HAVE A PLANT®**





## EDUCATIONAL RESOURCES

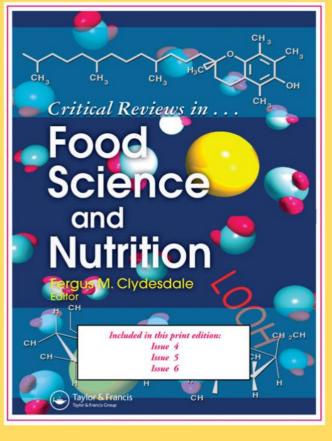
Have A Plant<sup>®</sup> programs deliver innovative research as well as unique consumer insights and communication tools. All to help you inspire lasting behavior change by tapping into the emotional connection consumers have with fruits and vegetables.

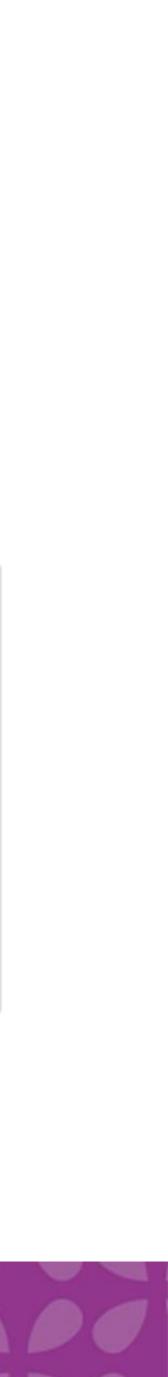


fruitsandveggies.org/educational-resources









## HOUSEKEEPING

Completion of this webinar awards 1.0 CPEUs in accordance with the Commission on Dietetic Registration's CPEU Prior Approval Program.

You will receive a link to the certificate of attendance, the webinar recording and PDF of the presentation once approval has been granted.



Type your questions and/or comments into the Q&A section located at the bottom of your screen at any time during the webinar.

> Funding from non-CPE revenue for CPE planning, development, review, and/or presentation has been provided by the International Fresh Produce Association.



## **LEARNING OBJECTIVES**

- potentially leading to better overall diet quality for their patients and clients.
- sodium by enhancing food flavor with herbs and spices.
- more flavorful and appealing, empowering consumers to increase produce intake.



1. Understand how incorporating herbs and spices can improve the flavor of healthier foods,

2. Use evidence-based strategies from recent research to lower the intake of saturated fat and

3. Implement practical techniques for using herbs and spices to make fruits and vegetables

## TODAY'S SPEAKERS



#### Kristina Petersen, PhD, APD, FAHA

#### Associate Professor of Nutritional Sciences Pennsylvania State University

#### **Disclosures:**

Kristina Petersen

- Employed by Pennsylvania State University
- Research funding from McCormick Science Institute
- Serves on McCormick Science Institute's Science Advisory Council

#### **Emily Holdorf**

- Employed by the International Fresh Produce Association
- Serves on Cornell Cooperative Extension's Program Advisory Committee for Nutrition, Health & Safety





#### **Emily Holdorf, MS, RDN, CDN**

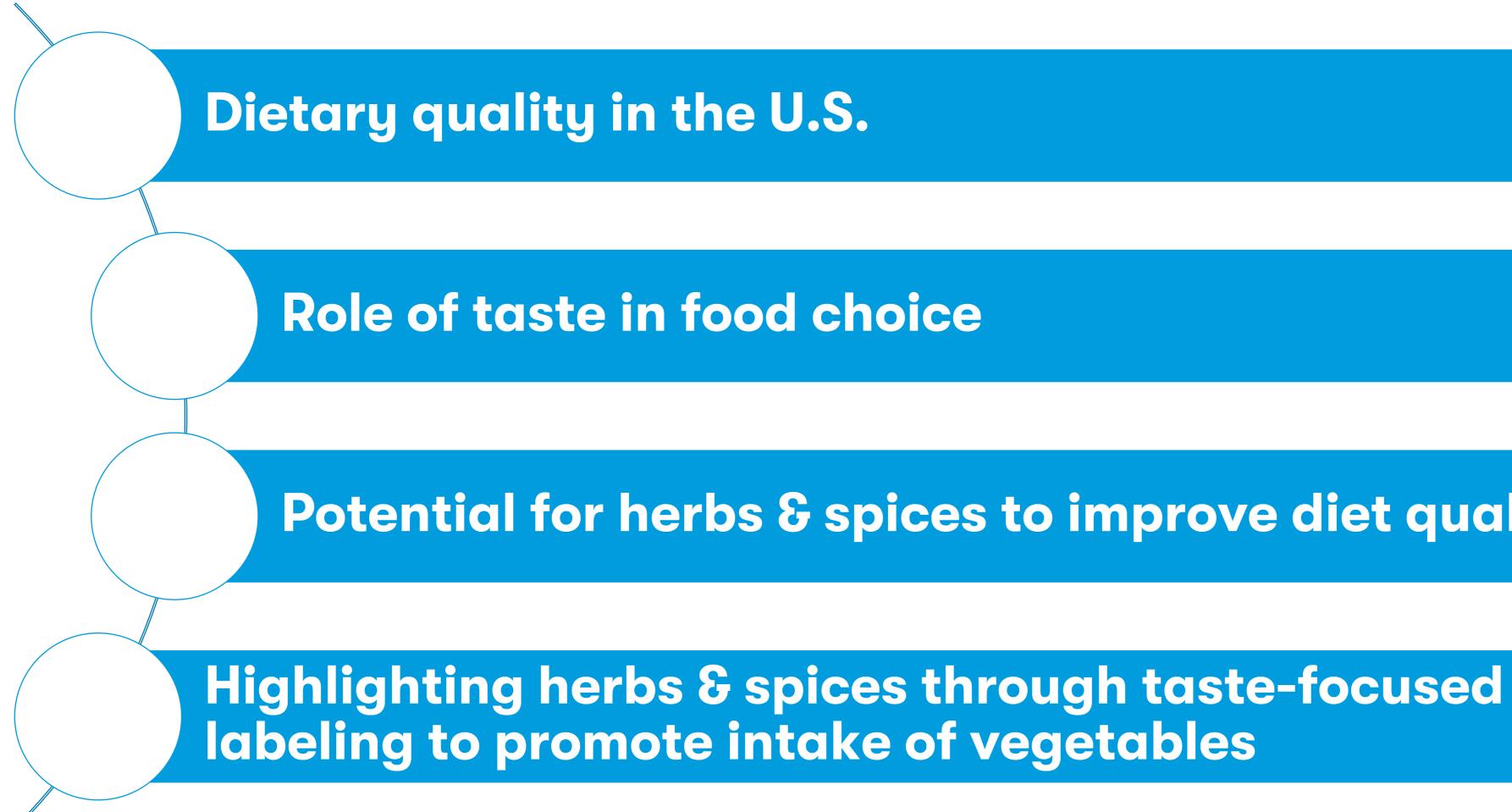
Influencer & Community Manager The Foundation for Fresh Produce

## The Impact Herbs & Spices Have On Improving Diet Quality: THE RESEARCH









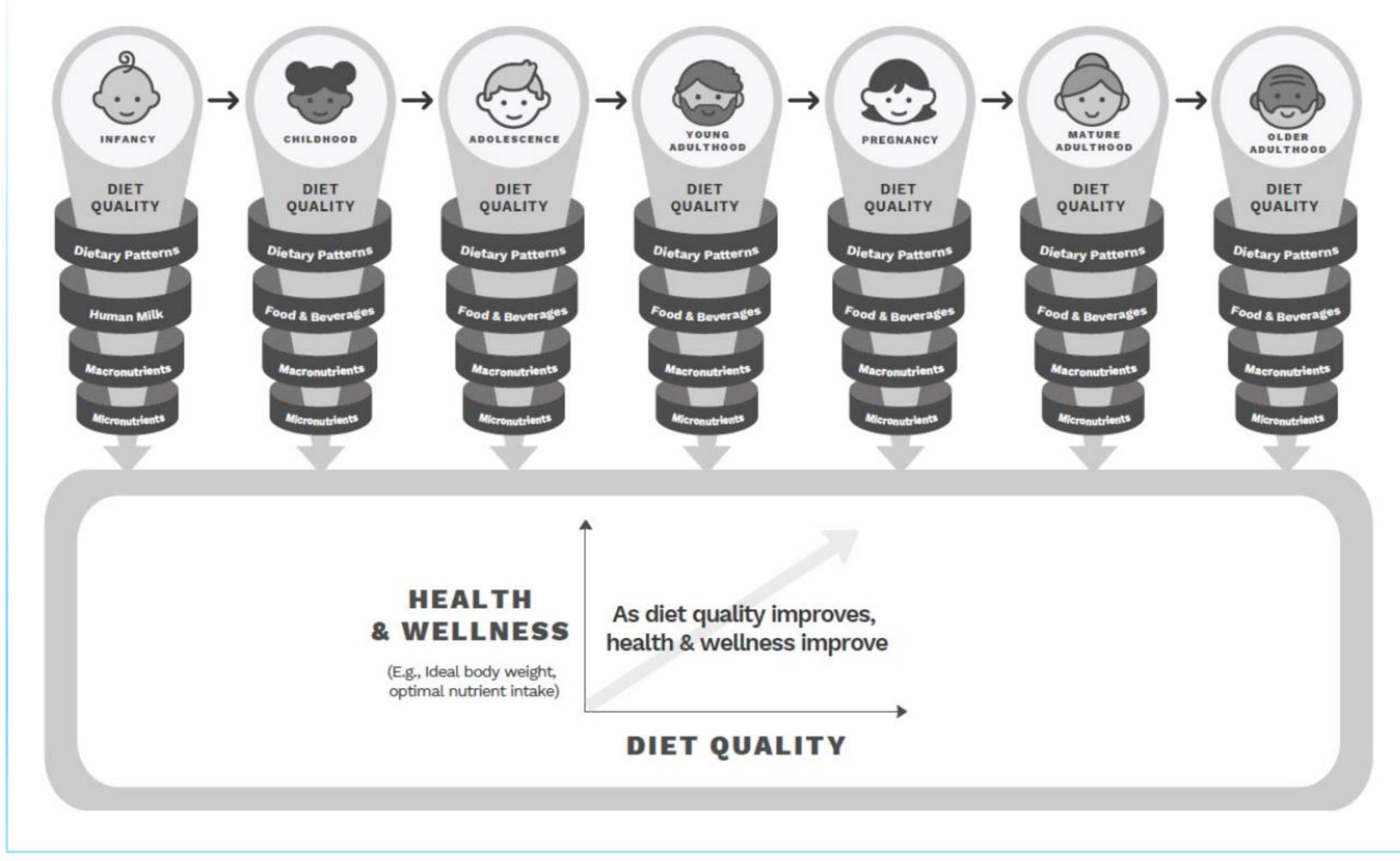


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#### **Potential for herbs & spices to improve diet quality**

### **Diet Quality at Every Life Stage Affects Health and Wellness**



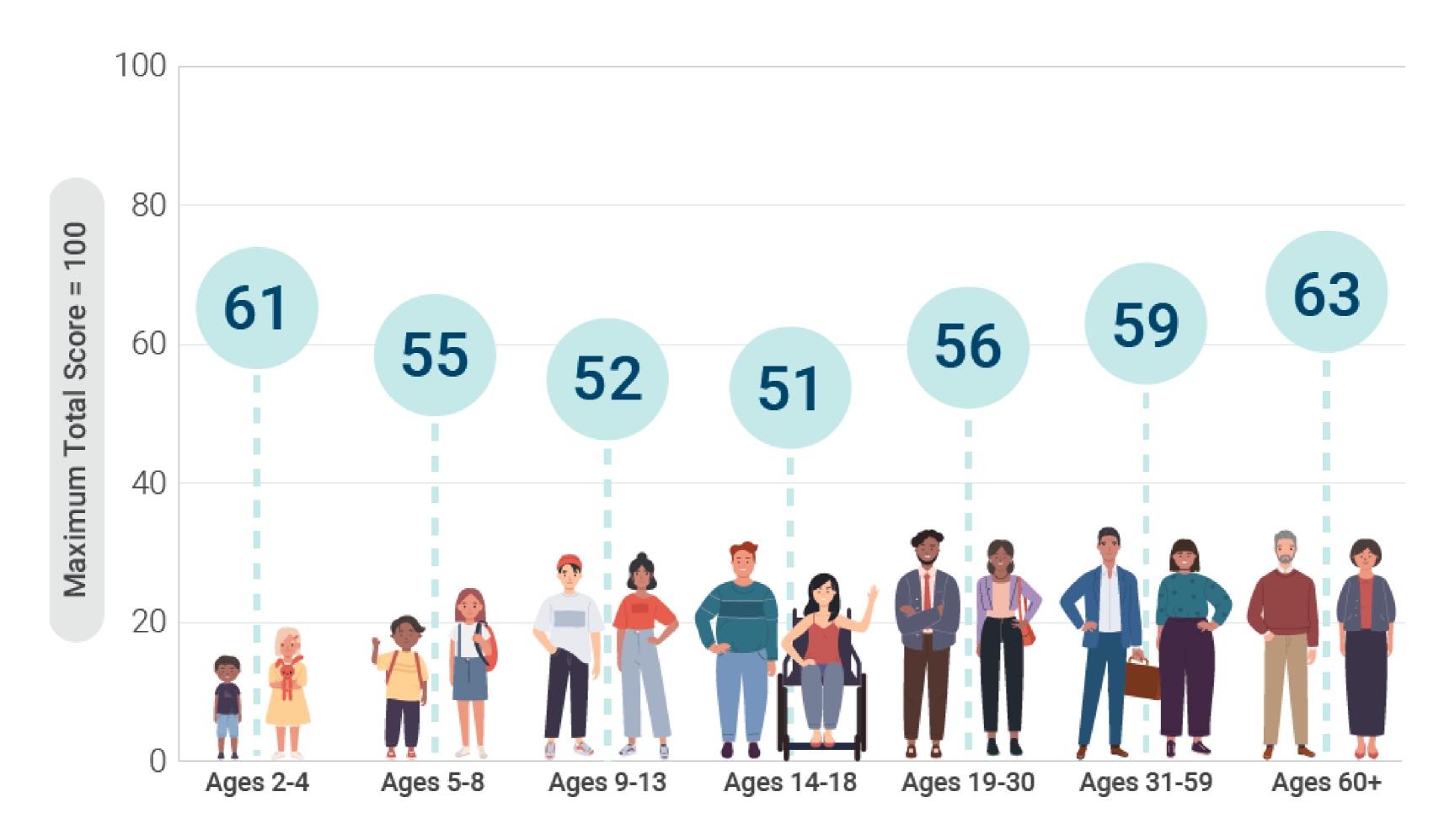
Dietary Guidelines Advisory Committee. 2020. Scientific Report of the 2020 Dietary Guidelines Advisory Committee: Advisory Report to the Secretary of Agriculture and the Secretary of Health and Human Services. U.S. Department of Agriculture, Agricultural Research Service, Washington, DC.



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### **Diet Quality is Poor Across All Life Stages**



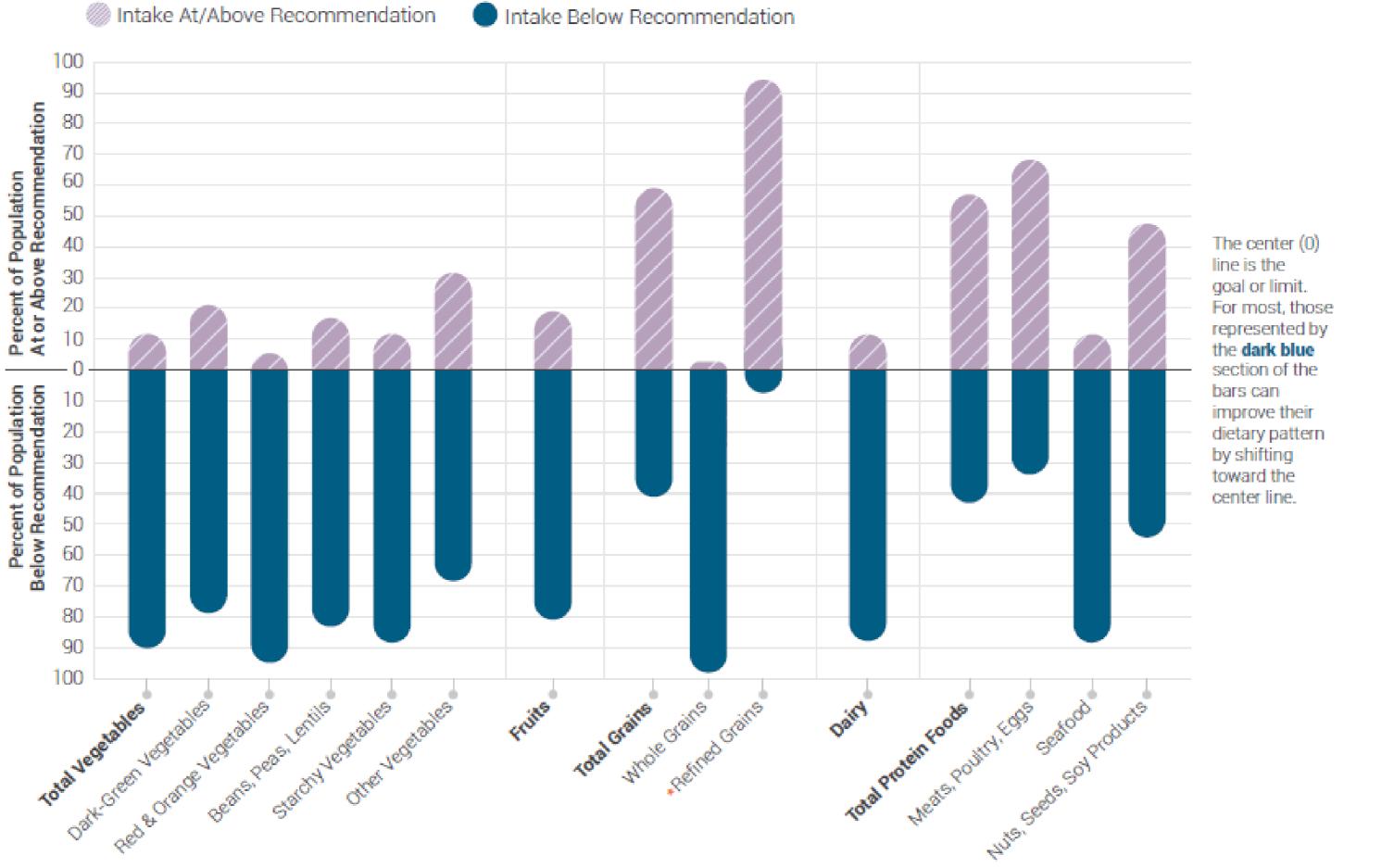
U.S. Department of Agriculture and U.S. Department of Health and Human Services. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.



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### **Dietary Intake Compared to Recommendations**

#### Percent of the U.S. Population Ages ≥1 who are meeting recommendations



U.S. Department of Agriculture and U.S. Department of Health and Human Services. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.



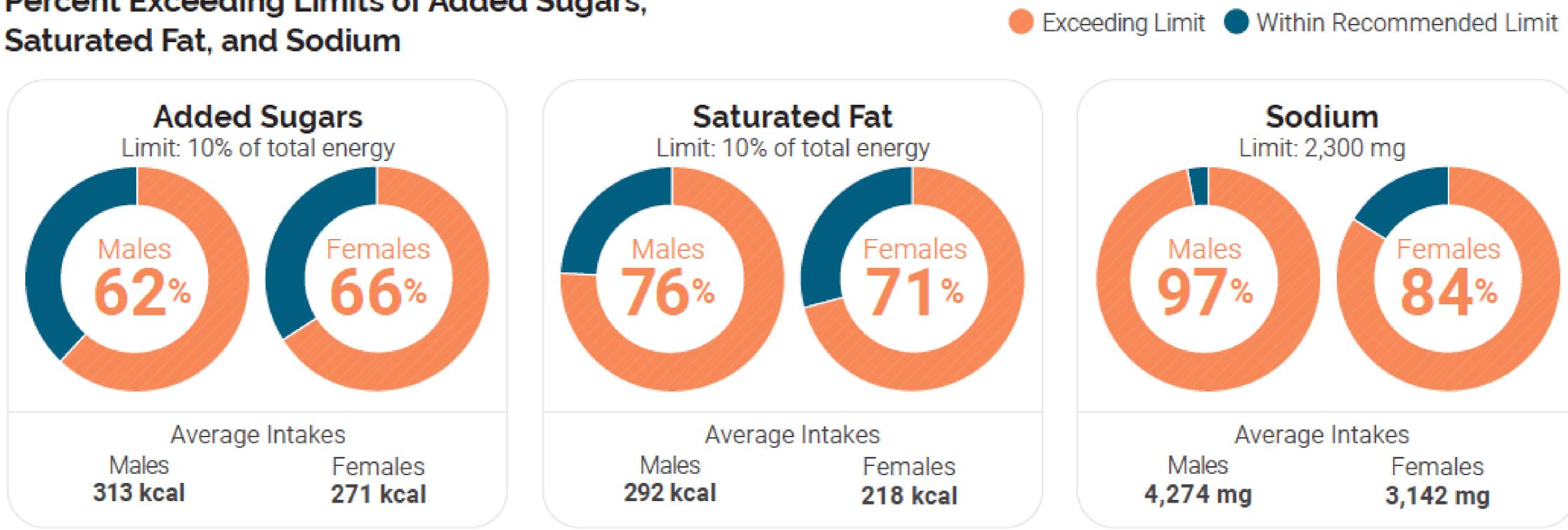
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### **Added Sugars, Saturated Fat and Sodium are** Overconsumed

#### **Current Intakes: Ages 19 Through 30**

### Percent Exceeding Limits of Added Sugars,



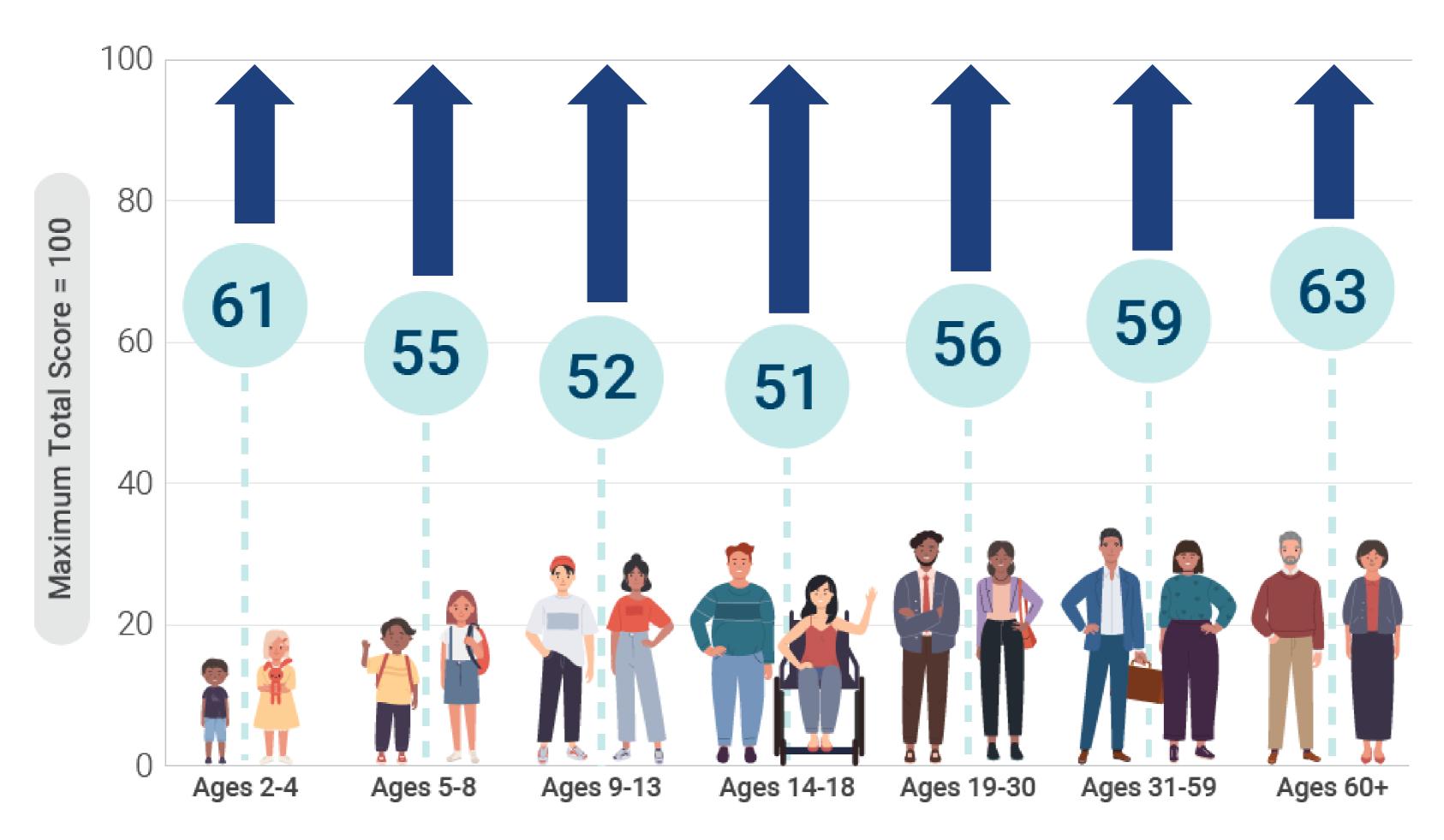
U.S. Department of Agriculture and U.S. Department of Health and Human Services. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.



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### **Diet Quality is Poor Across All Life Stages**



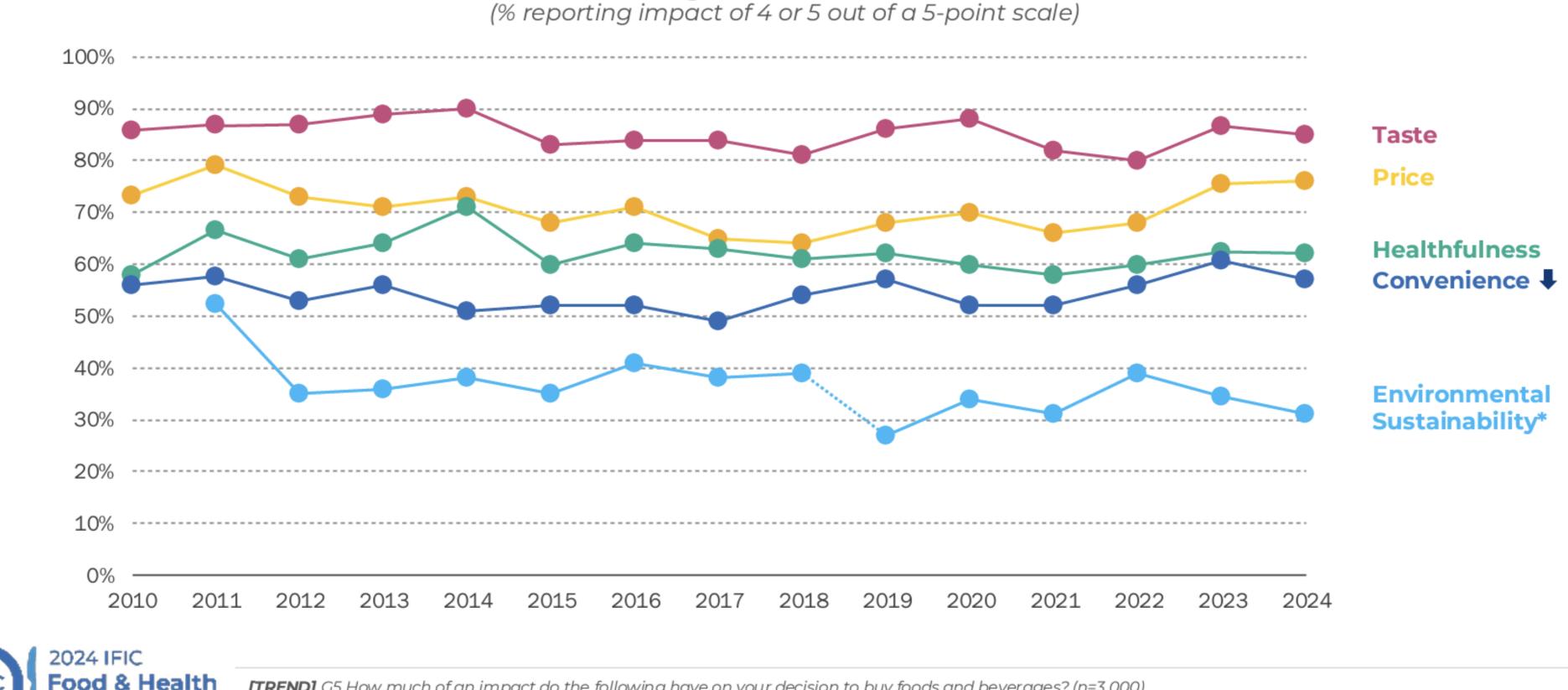
U.S. Department of Agriculture and U.S. Department of Health and Human Services. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.



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#### Taste remains the top purchase driver, followed by price. The impact of convenience is down from 2023.

Baby Boomers, those with higher household incomes, and Asian Americans are most likely to find healthfulness impactful.



Food and Beverage Purchase Drivers Over Time

2024 Food and Health Survey: International Food Information Council. 2024 Food & Health Survey. June 20, 2024



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SURVEY

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**[TREND]** G5 How much of an impact do the following have on your decision to buy foods and beverages? (n=3,000) Note: Prior to 2019, "Environmental Sustainability" was phrased as "Sustainability"

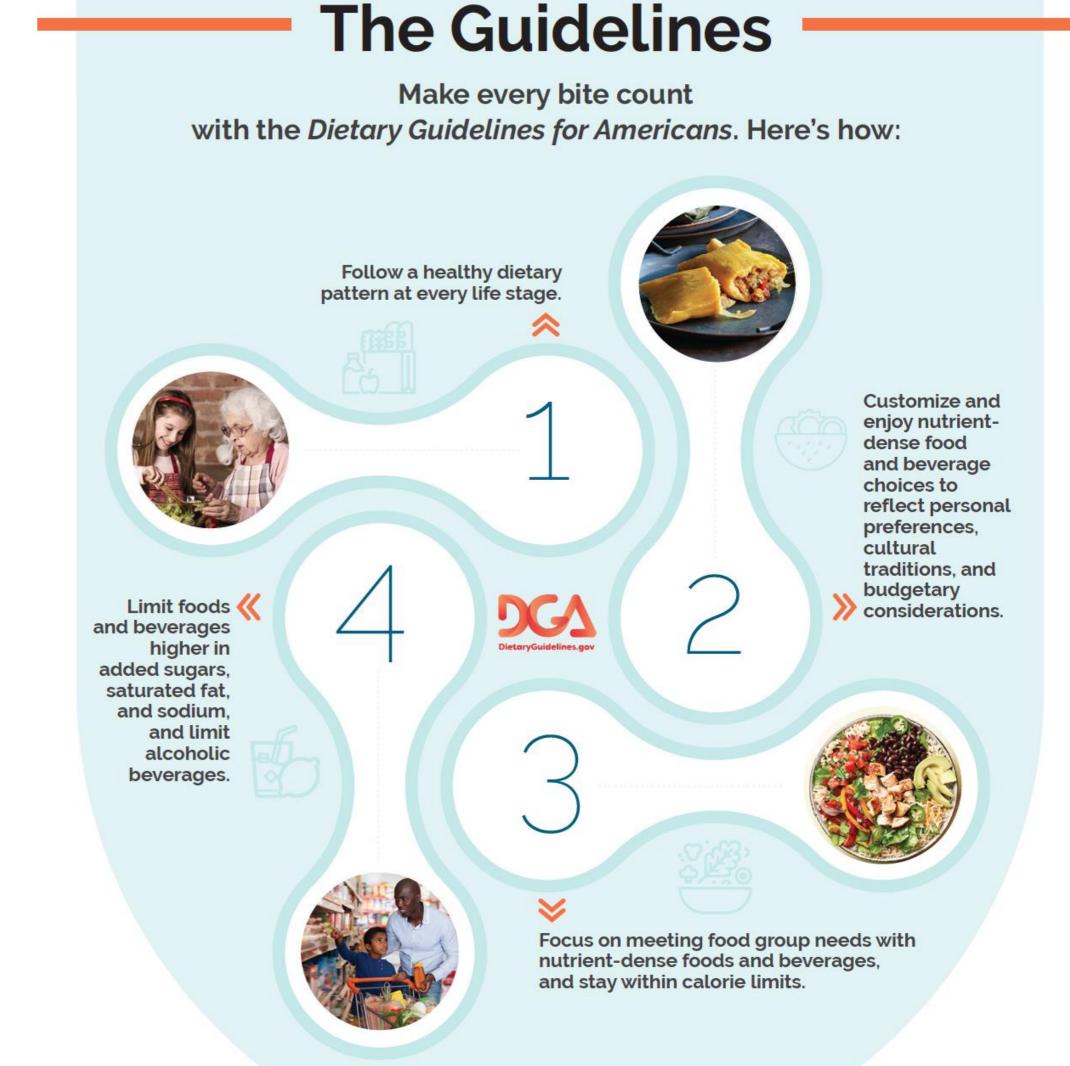
© 2024 International Food Information Council

## 2020-2025 Dietary Guidelines for Americans

U.S. Department of Agriculture and U.S. Department of Health and Human Services. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.



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#### **Guideline 2**

### Customize and Enjoy Food and Beverage Choices to Reflect Personal Preferences, Cultural Traditions, and Budgetary Considerations





#### Incorporate Cultural Traditions



U.S. Department of Agriculture and U.S. Department of Health and Human Services. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.



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**Start with Personal Preferences** 

#### **Consider Budget**

#### **Guideline 2**

#### **Customize and Enjoy Food and Beverage Choices to Reflect Personal Preferences, Cultural Traditions, and Budgetary Considerations**



"Spices and herbs can help flavor foods when reducing added sugars, saturated fat, and sodium, and they also can add to the enjoyment of nutrient-dense foods, dishes, and meals that reflect specific cultures."

U.S. Department of Agriculture and U.S. Department of Health and Human Services. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.



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### Incorporate Cultural Traditions

## **Potential of Spices and Herbs to Improve Diet Quality**

### Increase liking of foods lower in overconsumed dietary components

Do herbs & spices improve the acceptability of foods lower in saturated fat, sodium & added sugars? 

### Increase the liking of under-consumed dietary components

Do herbs & spices increase intake of vegetables? 





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## **Potential of Spices and Herbs to Improve Diet Quality**

### Increase liking of foods lower in overconsumed dietary components

Do herbs & spices improve the acceptability of foods lower in saturated fat, sodium & added sugars? 

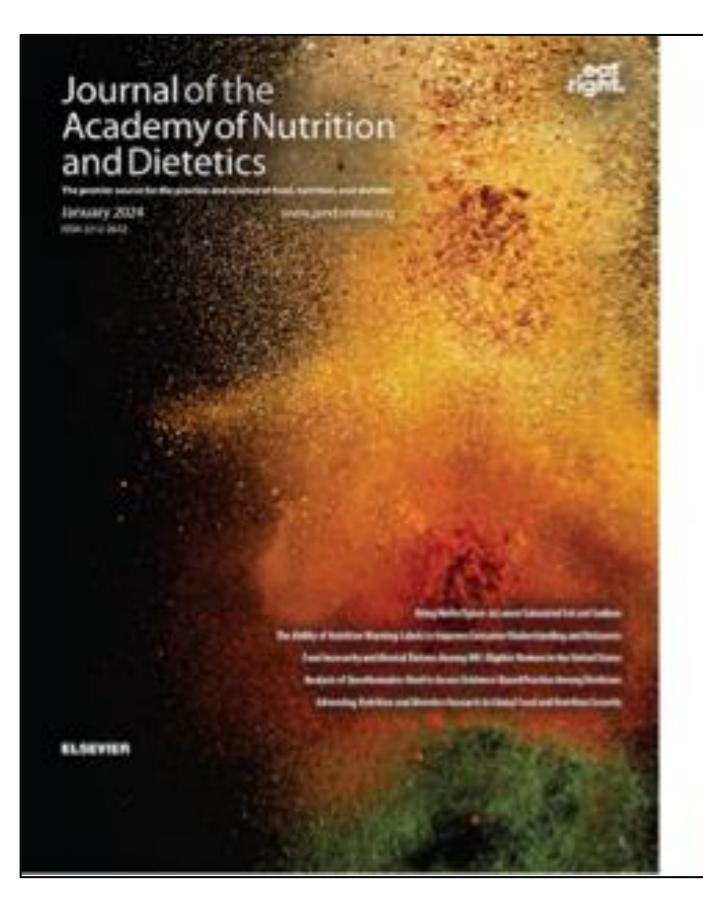
#### Increase the liking of under-consumed dietary components

Do herbs & spices increase intake of vegetables? •





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Kristina S. Petersen, PhD, APD, FAHA: Victor L. Fulgoni III, PhD; Helene Hopfer, PhD; John E. Hayes, PhD; Rachel Gooding; Penny Kris-Etherton, PhD, RDN, LDN

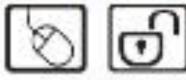
Petersen et al., J Acad Nutr Diet. 2024;124(1):15-27.



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#### RESEARCH **Research Paper**



- Using Herbs/Spices to Enhance the Flavor of **Commonly Consumed Foods Reformulated to** Be Lower in Overconsumed Dietary
- **Components Is an Acceptable Strategy and Has** the Potential to Lower Intake of Saturated Fat and Sodium: A National Health and Nutrition Examination Survey Analysis and Blind Tasting







#### **Research Question**

Does using herbs and spices to enhance the flavor of commonly consumed foods lower in saturated fat, added sugars and sodium meaningfully lower population level intake of overconsumed nutrients and increase diet quality while being acceptable to consumers?

#### Aims

- herbs and spices.
- intake of saturated fat, sodium, added sugars, and diet quality.
- To evaluate consumer acceptance of these healthier recipes.

Petersen et al., J Acad Nutr Diet. 2024;124(1):15-27.



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### **Research Question & Aims**

• To identify the top contributors to saturated fat, added sugars and sodium intake in the U.S. diet, conduct recipe modification to lower overconsumed nutrients and enhance flavor with

• To model the potential impact of adoption of the seasoned healthier recipes on population level



### **Methods: Identification of Sources of Overconsumed Nutrients & Targets for Recipe** Modification

#### Data source: NHANES 2015-2018

 Identified top food category sources of calories, sodium, saturated fat, and added sugars.

#### **Targets for Recipe Modification**

- Aimed to identify 10 recipes that could be modified to lower 1 or more overconsumed nutrient(s).
- Herbs and spices could be added to enhance flavor.

Petersen et al., J Acad Nutr Diet. 2024;124(1):15-27.



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	Food	Percent difference per serving <sup>a</sup>			
Food category		Energy	SFA <sup>b</sup>	Sodium	Added sugars
Pizza	Cheese pizza	-9.25	-34.65	-21.04	-69.49
Burritos and tacos	Taco (meat only)	-20.33	-41.94	-41.86	0
Pasta mixed dishes	Pasta with meat sauce	-5.16	-39.23	-33.02	-100
	Mac and cheese	-6.74	-31.53	-23.32	0
Cookies and brownies	Brownie	1.51	-24.19	-50.09	-11.38
Cakes and pies	Apple pie	-16.83	-25.73	-0.93	-58.11
Meat mixed dishes	Chili	-10.14	-51.38	-52.88	0
	Meatloaf	-18.88	-46.14	-48.88	-1.05
Poultry mixed dishes	Chicken pot pie	-1.24	-28.73	-38.90	0
	Chicken with cream sauce (sauce only)	-7.25	-84.50	-56.79	0

<sup>a</sup>Modified recipe (ie, nutritionally improved and flavor-enhanced and nutritionally improved) — original recipe.  $^{b}SFA = saturated fat.$ 

Petersen et al., *J Acad Nutr Diet*. 2024;124(1):15-27.



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### **Recipe Modification**

### **Example Recipe Reformulation: Mac n Cheese**

Original		Nutritionally Improved		Flavor Enhanced Nutritionally Improv		
Ingredients	Weight (g)	Ingredients	Weight (g)	Ingredients	Weight (g)	
Butter, salted	77	Butter, unsalted	25	Butter, unsalted	25	
		Vegetable Oil	20	Vegetable Oil	20	
All Purpose Flour	22.8	All Purpose Flour	22.8	All Purpose Flour	22.8	
2% Milk	711	Skim Milk	711	Skim Milk	711	
American Cheese	200	American Cheese,	141, 5	American Cheese, reduced	164.5	
	329	reduced sodium + fat	164.5	sodium + fat	104.3	
		American Cheese	164.5	American Cheese	164.5	
Salt	0.5					
Pasta, cooked	1020	Pasta, cooked	1020	Pasta, cooked	1020	
Breadcrumbs, dry, plain	157	Breadcrumbs, dry, plain	157	Breadcrumbs, dry, plain	157	
Butter, salted	25	Butter, unsalted	15	Butter, unsalted	15	
		Oil	10	Oil	10	
				Onion Powder	6	
				Garlic Powder	3	
				Mustard Seed, ground	1	
				Paprika	0.5	
				Cayenne	0.25	

All recipes available <u>here</u>



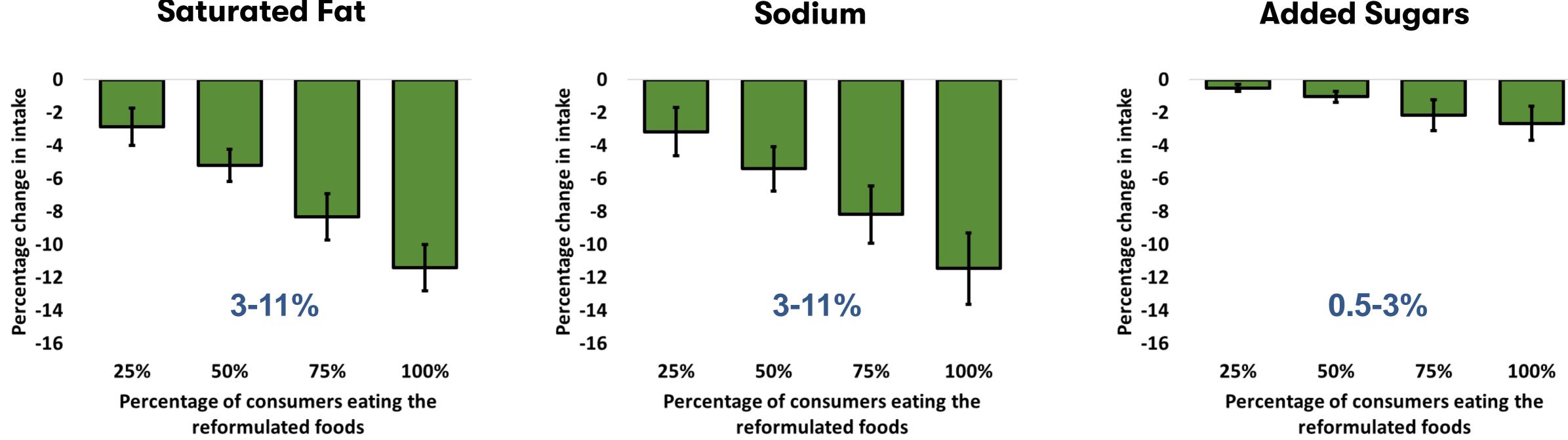
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### **Modeling Showed Intake of the Reformulated Recipes Would Lower Daily Intake of Saturated Fat, Sodium & Added Sugars**

**Saturated Fat** 



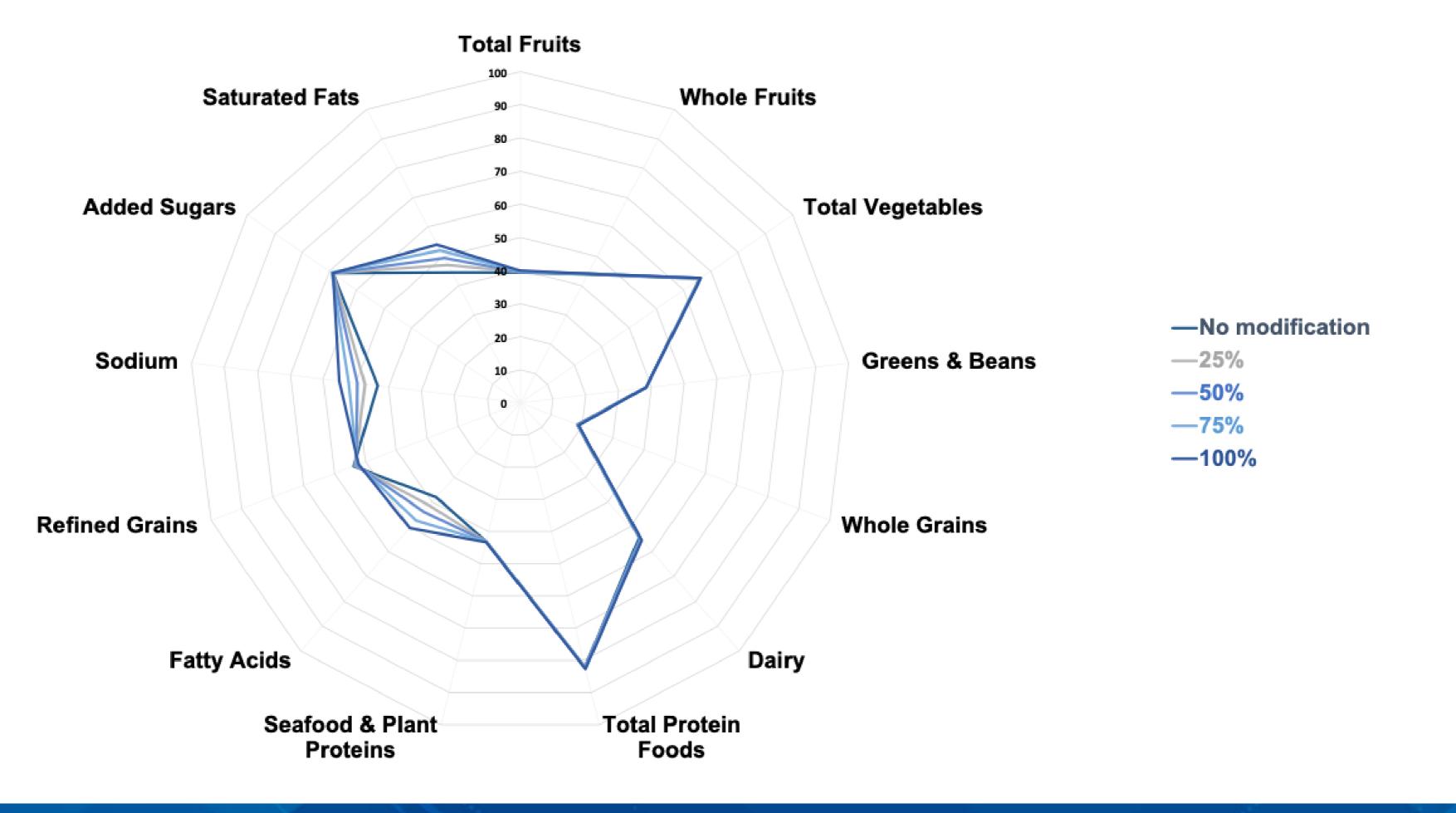
Petersen et al., J Acad Nutr Diet. 2024;124(1):15-27.



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### **Modeling Showed Diet Quality Assessed by the HEI-2020 Would Improve with the Reformulated Recipes**

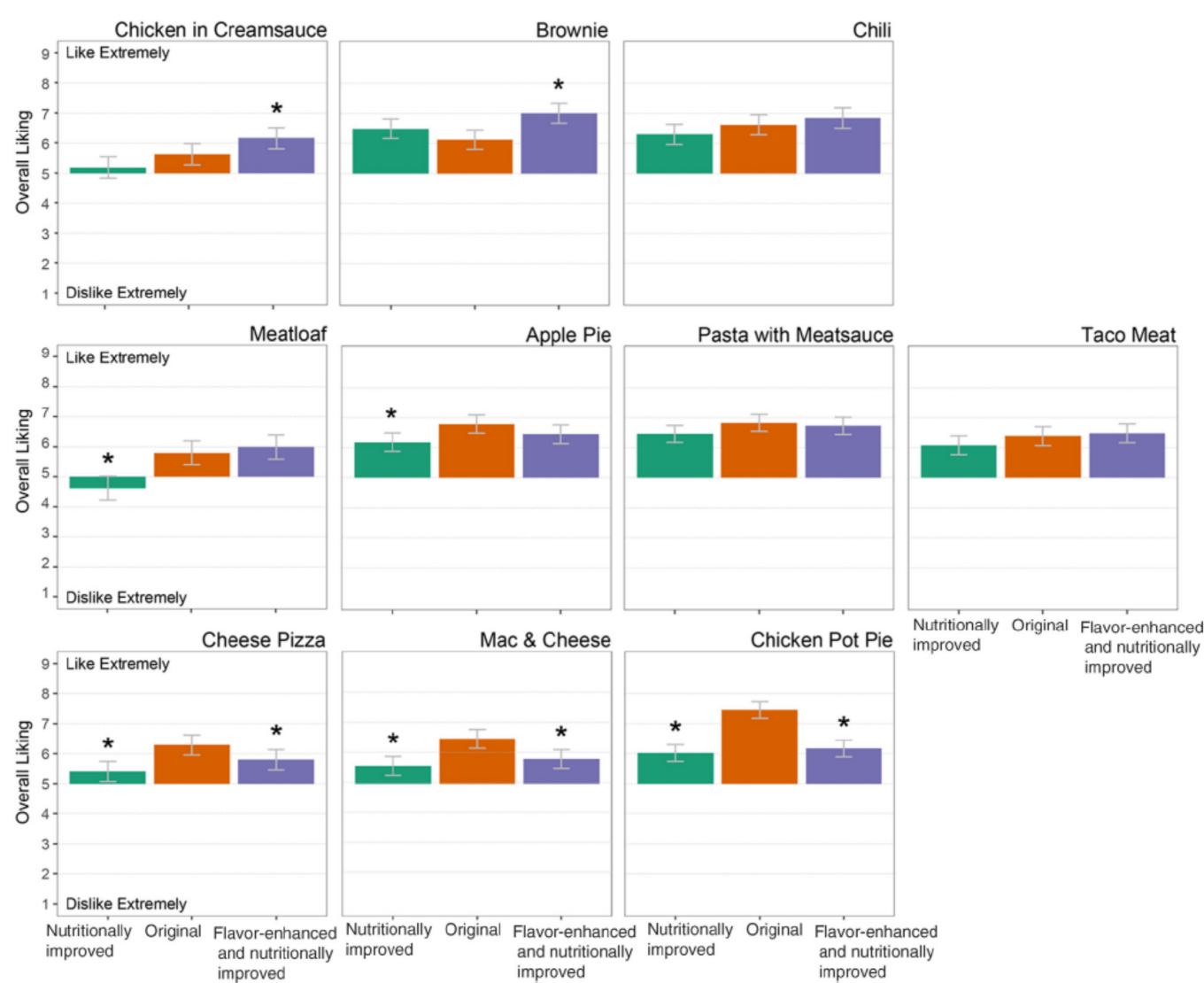
The HEI-2020 would improve by 1.0-3.5 points (2.2-7.2%) with 25% to 100% adoption of the reformulated recipes







### The Overall Liking Ratings for 7 of the 10 Reformulated Foods with Herbs/Spices were Superior or at Parity with the Original Foods



Petersen et al., J Acad Nutr Diet. 2024;124(1):15-27.



### **Potential of Spices and Herbs to Improve Diet Quality**

### Increase liking of foods lower in overconsumed dietary components

•

### Increase the liking of under-consumed dietary components

Do herbs & spices increase intake of vegetables? ٠



Herbs & spices have the potential to improve the acceptability of foods lower in saturated fat, sodium & added sugars



## **Potential of Spices and Herbs to Improve Diet Quality**

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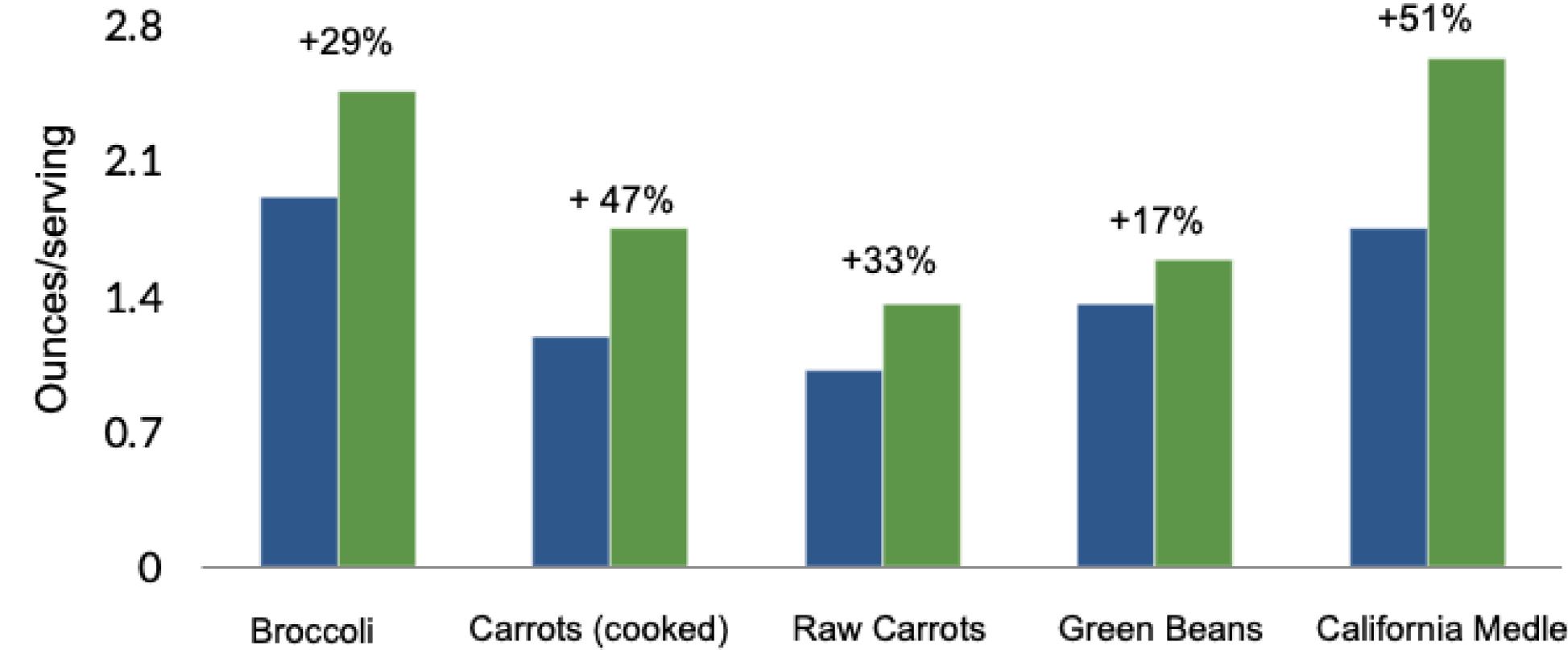
Do herbs & spices increase intake of vegetables? ٠



Herbs & spices have the potential to improve the acceptability of foods lower in saturated fat, sodium & added sugars



### **Spices & Herbs Increased Consumption of Vegetables in an Urban High School Cafeteria**



D'Adamo et al., *Food Qual Pref* 2021; 88:104076



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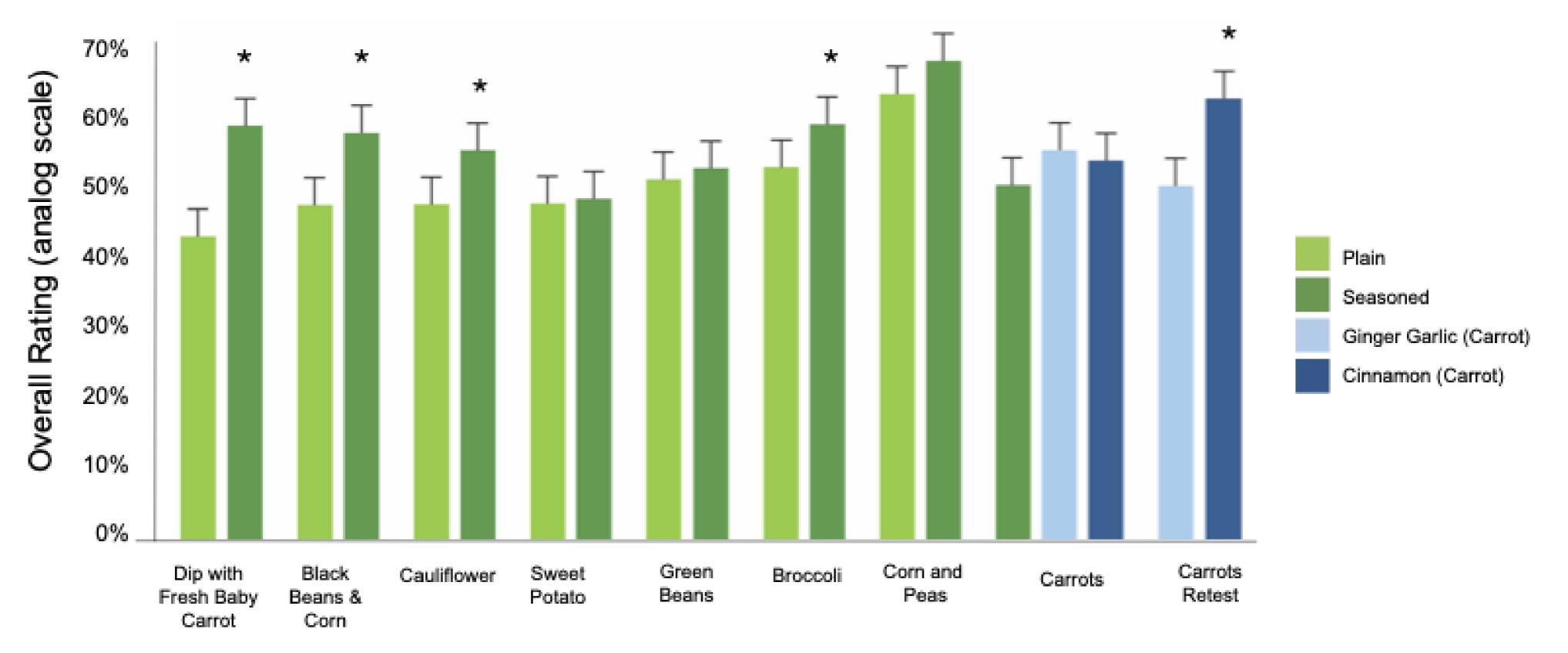
with Dip

California Medley (Broccoli, Carrots, Cauliflower)



### **Spices & Herbs Increased the Liking of Most Vegetables Among Rural High & Middle School Students**

#### **Overall Rating of Food (MM)**



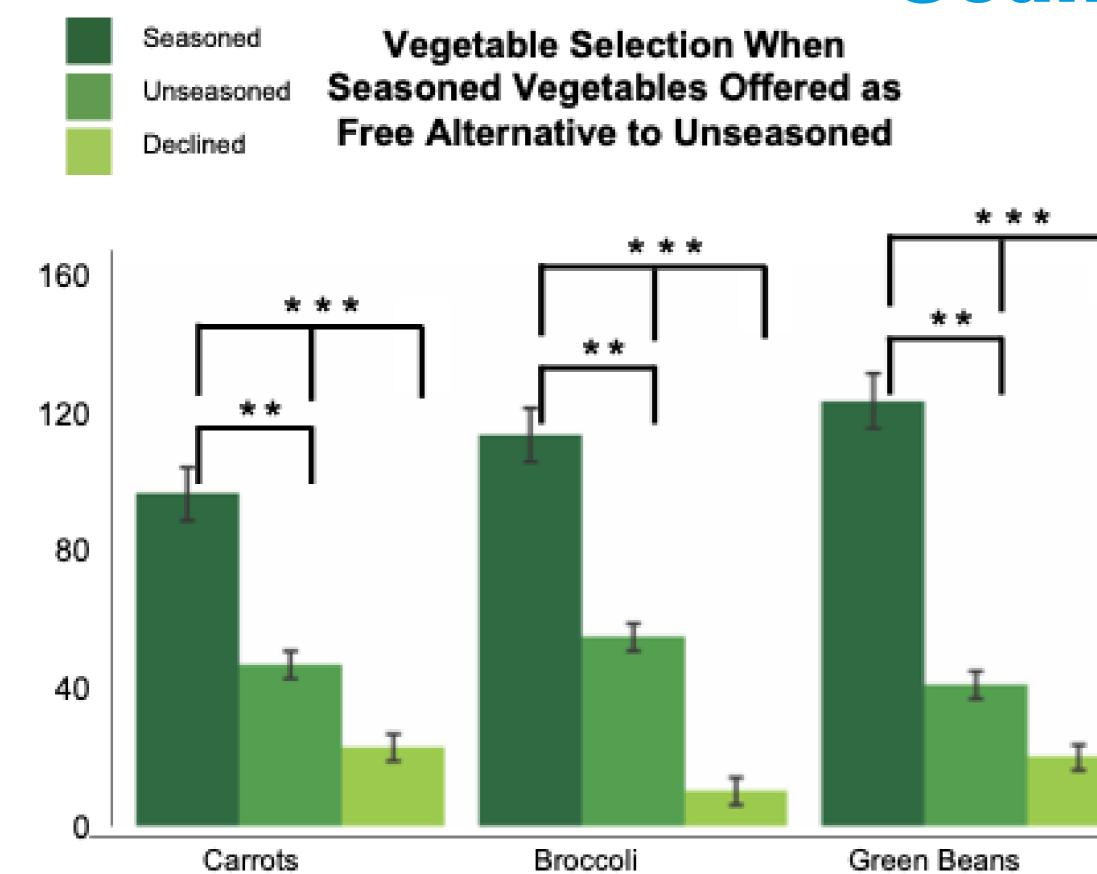
Fritts et al., Food Qual Pref 2018;68:125



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### **Cafeteria Patrons Preferred Vegetables Seasoned with Spices/Herbs More Often Than Their Unseasoned**



Manero et al., *Appetite* 2017;116:239



NUMBER OF PEOPLE

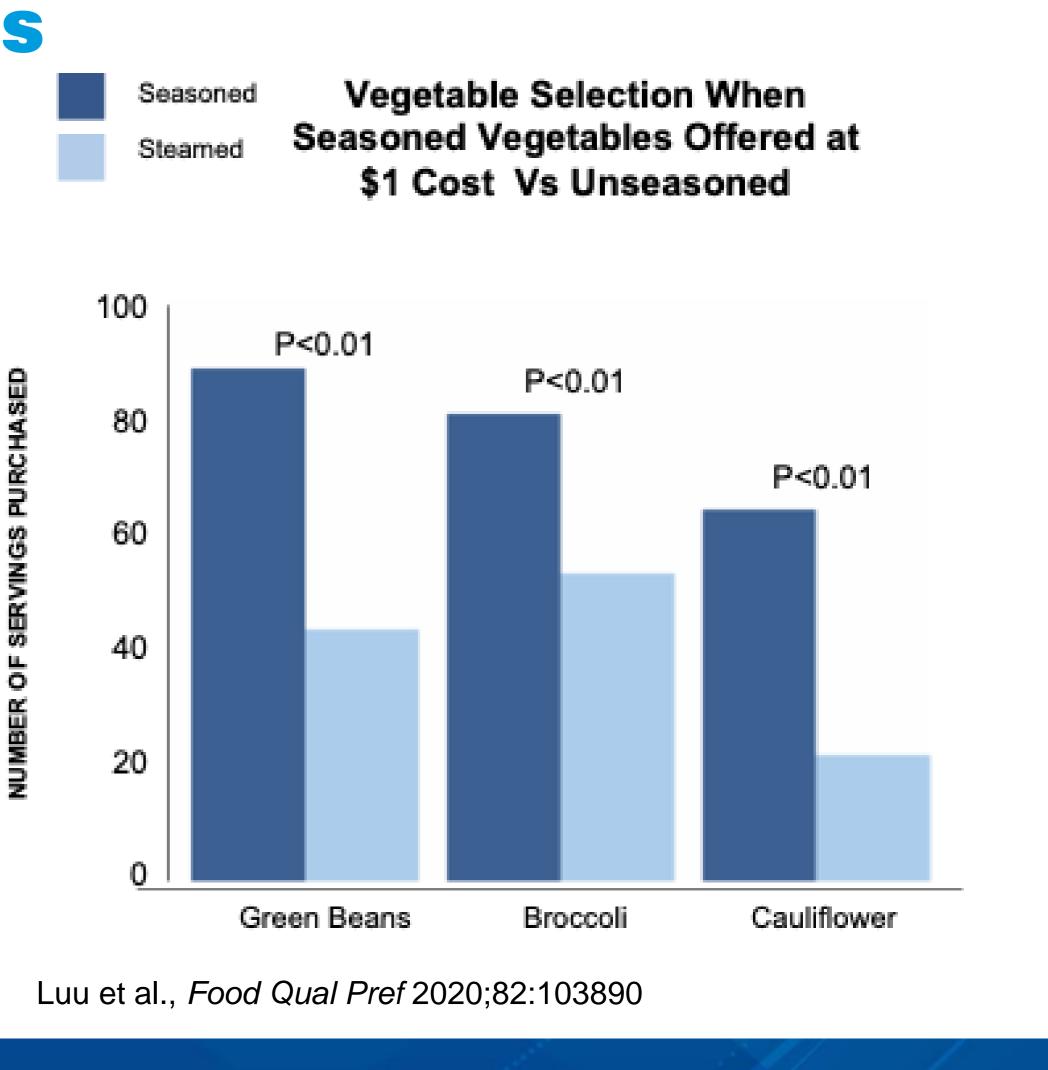
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Counterparts

Steamed

Vegetable Selection When \$1 Cost Vs Unseasoned



## **Potential of Spices and Herbs to Improve Diet Quality**

### Increase liking of foods lower in overconsumed dietary components

•

#### Increase the liking of under-consumed dietary components

Seasoning vegetables with herbs & spices may increase intake of vegetables 





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Herbs & spices have the potential to improve the acceptability of foods lower in saturated fat, sodium & added sugars

### **Taste-focusing Labeling**

Taste-focused labels elevate diners' expectations of a positive taste experience with vegetables and other plant-based foods.

- Specific flavors •
- Positive experiences ullet

# **Zesty ginger-turmeric sweet potatoes** Sizzlin' Cajun spice inspired Cabbage **Dynamite chili and tangy lime-seasoned beets**

#### Edgy Veggie Toolkit



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- **Fragrant Herbes de Provence Vegetable Ratatouille**
- **Caramelized Balsamic and Herb Vegetable Medley**





### **Unhealthy = Tasty Intuition**

The less healthy the item is portrayed to be:

- 1. The better its inferred taste
- 2. The more it is enjoyed during actual consumption
- 3. The greater the preference for it is in choice tasks when a hedonic goal is more (versus less) salient

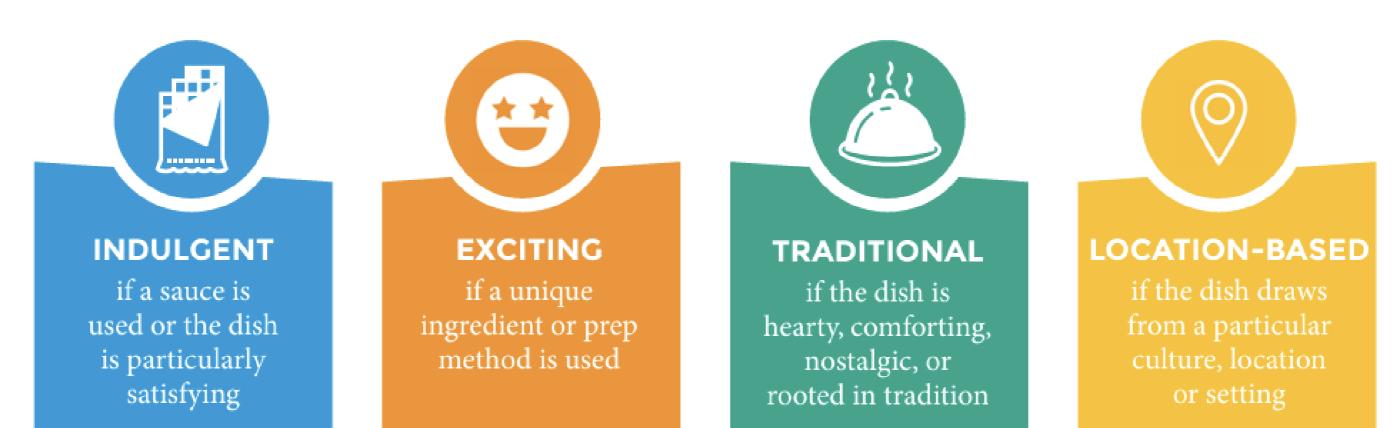
Journal of Marketing, Vol. 70 (October 2006), 170–184



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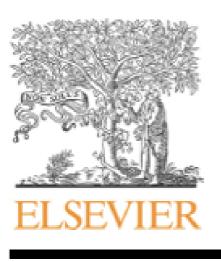
### **Taste-focusing Labeling**



OLD-FASHIC	DNED	SIZZ		
NEW ORLEANS	CAR	AMELI		
GLAZED		ABUE		
SHANGHAI				
BOLDLY		COUN		
	TAVE	RN STYL		
CREAMY				

Edgy Veggie Toolkit

ZLIN' SPLASHED MOUTHWATERING IZED HOMESTYLE VELITA'S PROVENCE INSPIRED NTRYSIDE JUICY MAMA'S 'LE TWISTED CLASSIC



Contents lists available at ScienceDirect

Preventive Medicine

journal homepage: www.elsevier.com/locate/ypmed

#### Smart food policy for healthy food labeling: Leading with taste, not healthiness, to shift consumption and enjoyment of healthy foods

Bradley P. Turnwald<sup>\*</sup>, Alia J. Crum

Department of Psychology, Stanford University, 450 Serra Mall, Stanford, CA 94305, USA



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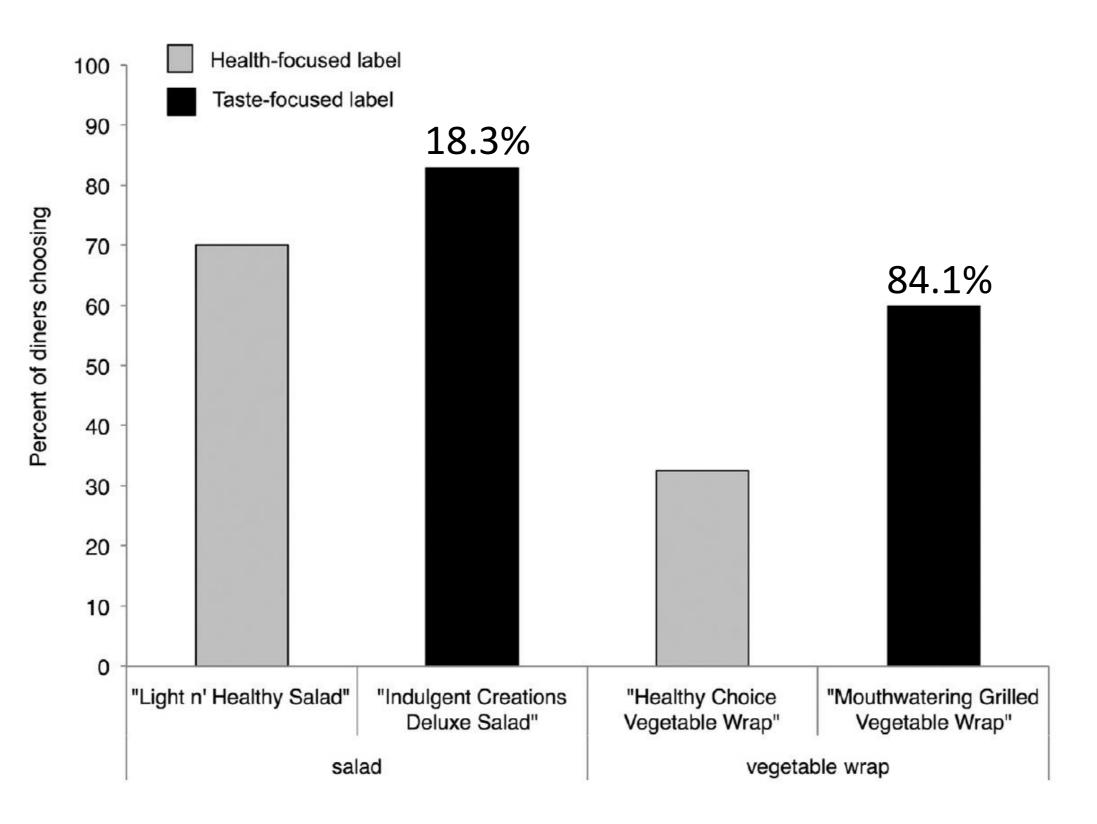
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What is the effect of traditional health-focused labeling compared to taste focused labeling on adults' selection and enjoyment of healthy foods?

### Taste-Focused Labels Increase Adults' Selection of a Variety of Healthy Foods

Percentage of diners (n=202) selecting salads and vegetable wraps with health-focused and taste-focused labels at a conference lunch buffet in northern California



Preventive Medicine 119 (2019) 7–13



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### **Labeling Vegetables with Indulgent Descriptors**

#### Study in a large university cafeteria serving ~600 meals per day at lunch

#### Table. Example Vegetable Descriptions by Condition

Indulgent	Basic	Healthy Restrictive	Healthy Positive
Dynamite chili and tangy lime-seasoned beets	Beets	Lighter-choice beets with no added sugar	High-antioxidant beets
Rich buttery roasted sweet corn	Corn	Reduced-sodium corn	Vitamin-rich corn
Sweet sizzlin' green beans and crispy shallots	Green beans	Light 'n' low-carb green beans and shallots	Healthy energy-boosting green beans and shallots
Zesty ginger-turmeric sweet potatoes	Sweet potatoes	Cholesterol-free sweet potatoes	Wholesome sweet potato superfood
Twisted garlic-ginger butternut squash wedges	Butternut squash	Butternut squash with no added sugar	Antioxidant-rich butternut squash
Slow-roasted caramelized zucchini bites	Zucchini	Lighter-choice zucchini	Nutritious green zucchini
Tangy ginger bok choy and banzai shiitake mushrooms	Bok choy and mushrooms	Low-sodium bok choy and mushrooms	Wholesome bok choy and mushrooms
Twisted citrus-glazed carrots	Carrots	Carrots with sugar-free citrus dressing	Smart-choice vitamin C citrus carrots

JAMA Intern Med. 2017;177(8):1216-1218.

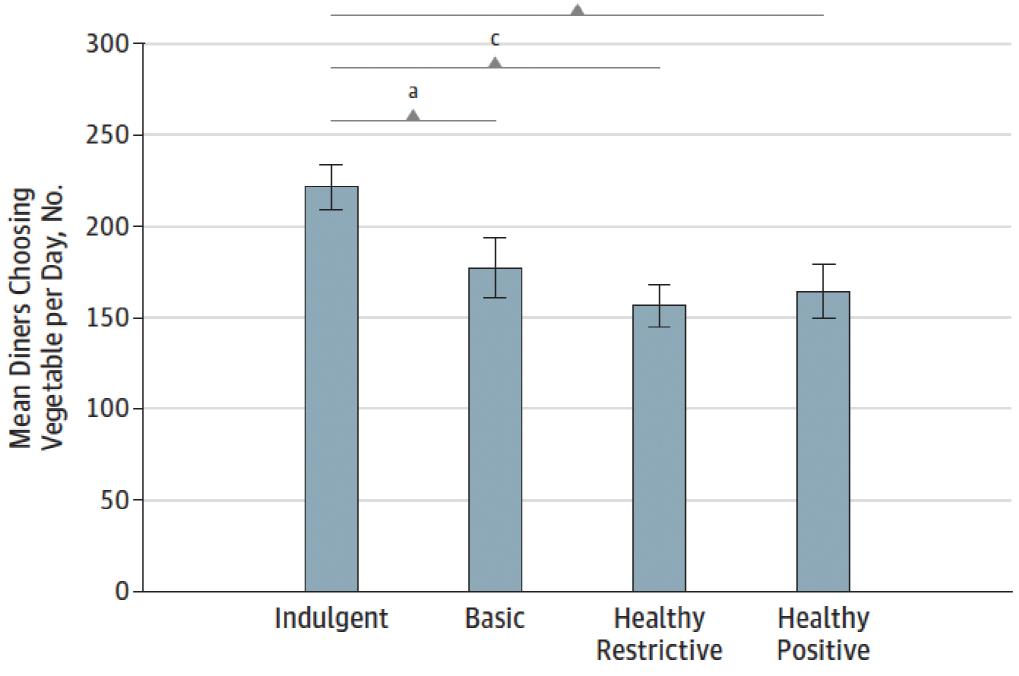


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### **Labeling Vegetables with Indulgent Descriptors Increased Vegetable Selection**



Bars represent mean number of diners choosing the vegetable per day by condition; error bars represent standard error. Two-tailed t tests were used for pairwise comparisons, and  $P \le .05$  were considered statistically significant. <sup>a</sup>P < .05; <sup>b</sup>P < .01; <sup>c</sup>P < .001.

JAMA Intern Med. 2017;177(8):1216-1218.

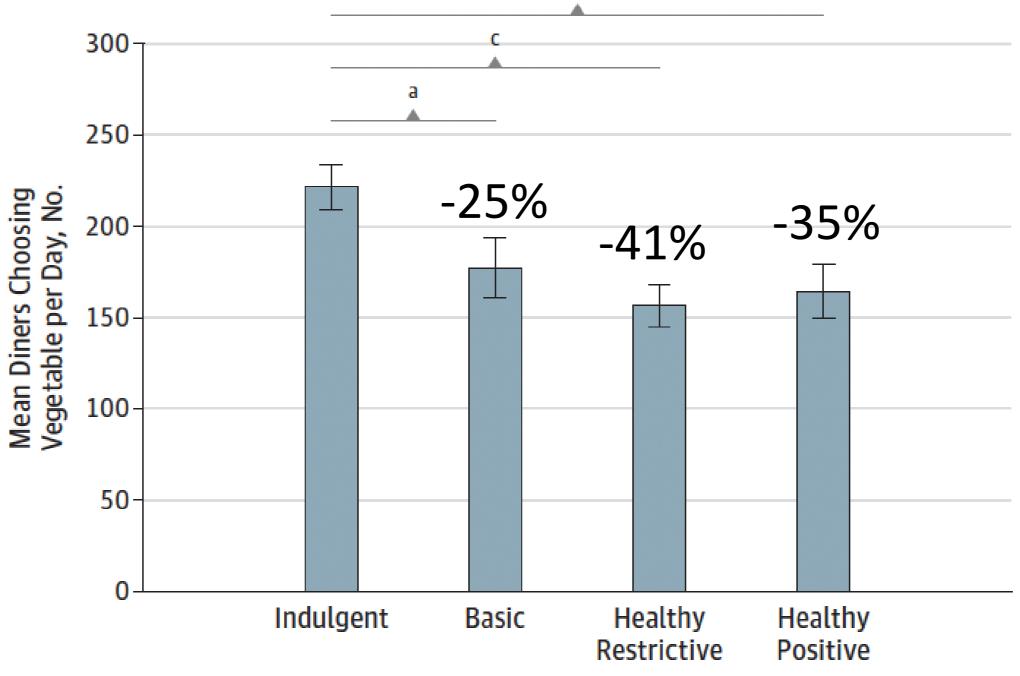


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JAMA Intern Med. 2017;177(8):1216-1218.



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## **Delicious Impressions Support Healthy Eating** (DISH) Study

#### The Menus of Change University Research Collaboration (MCURC)

Over 185 days, researchers tracked nearly 140,000 decisions about 71 vegetable dishes that had been labeled with **taste-focused**, health-focused or basic names.



Psychological Science 2019, Vol. 30(11) 1603–1615 & https://www.ciaprochef.com/MCURC\_DISH\_Study\_Executive\_Summary/

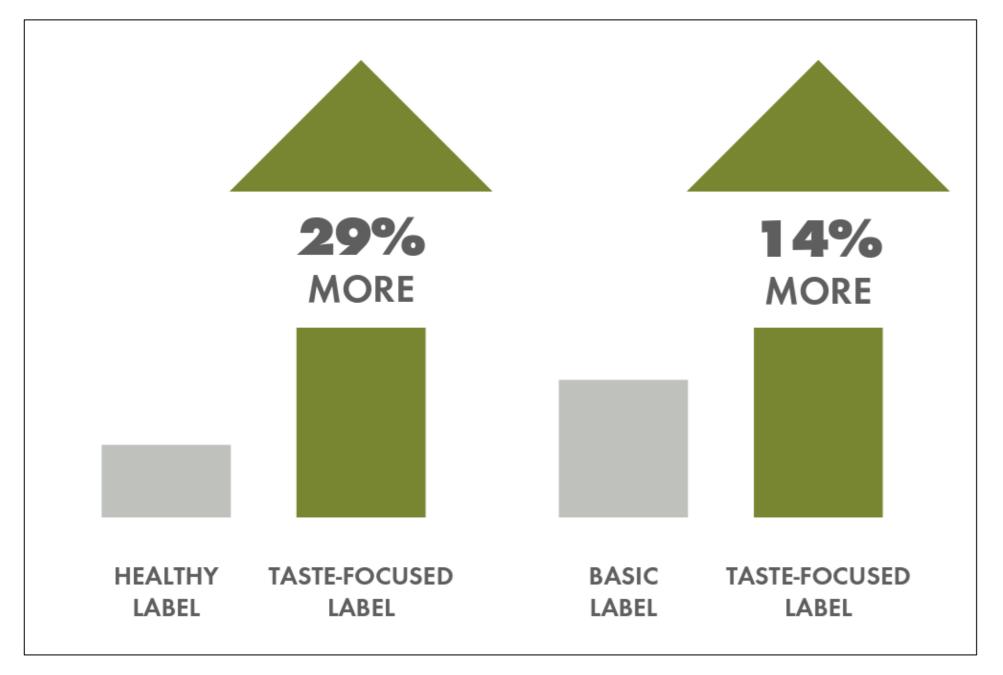


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# Taste-Focused Labels Increased VegetableSelection & Consumption

#### **Vegetable Selection**



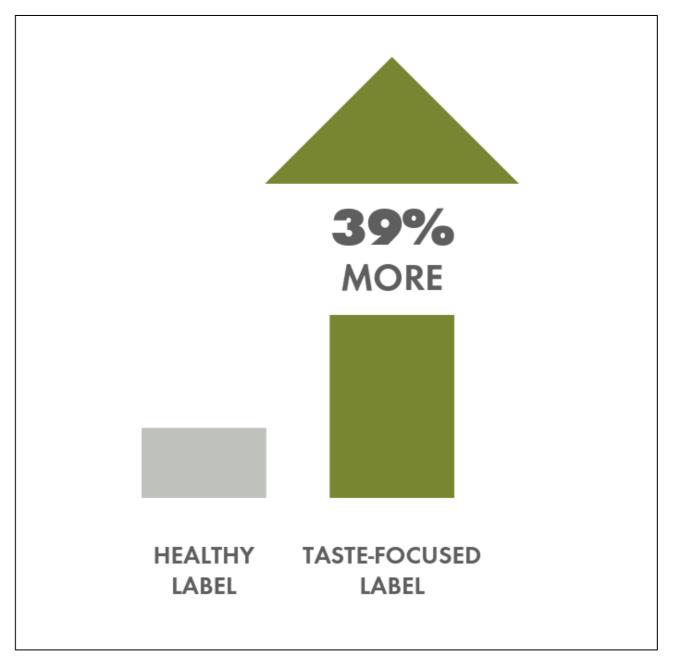
Psychological Science 2019, Vol. 30(11) 1603–1615 & https://www.ciaprochef.com/MCURC\_DISH\_Study\_Executive\_Summary/



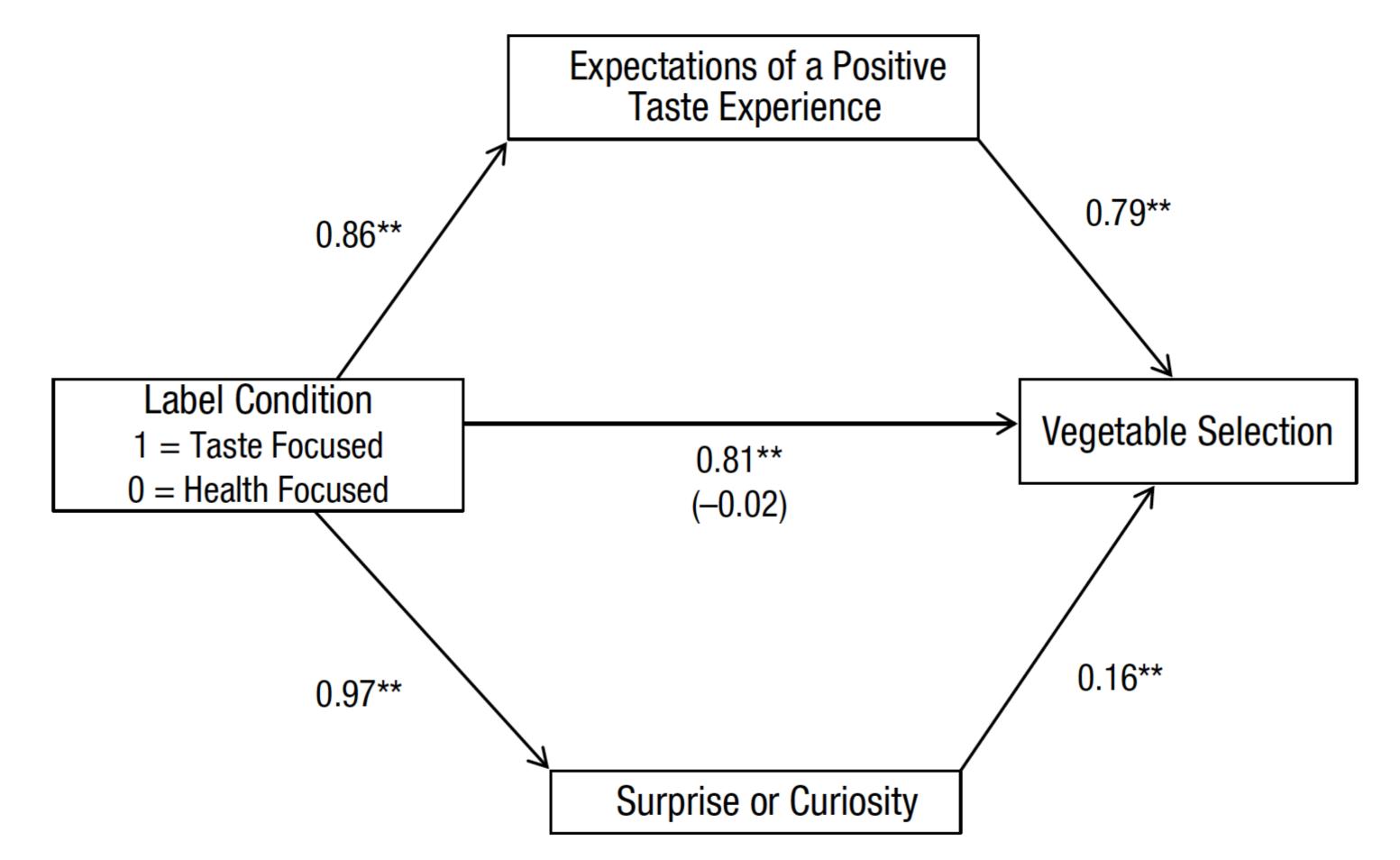
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#### **Vegetable Consumption**



#### **Expectations of a Positive Taste Experience Strongly Mediates** the Effect of Taste-Focused Label on Vegetable Selection



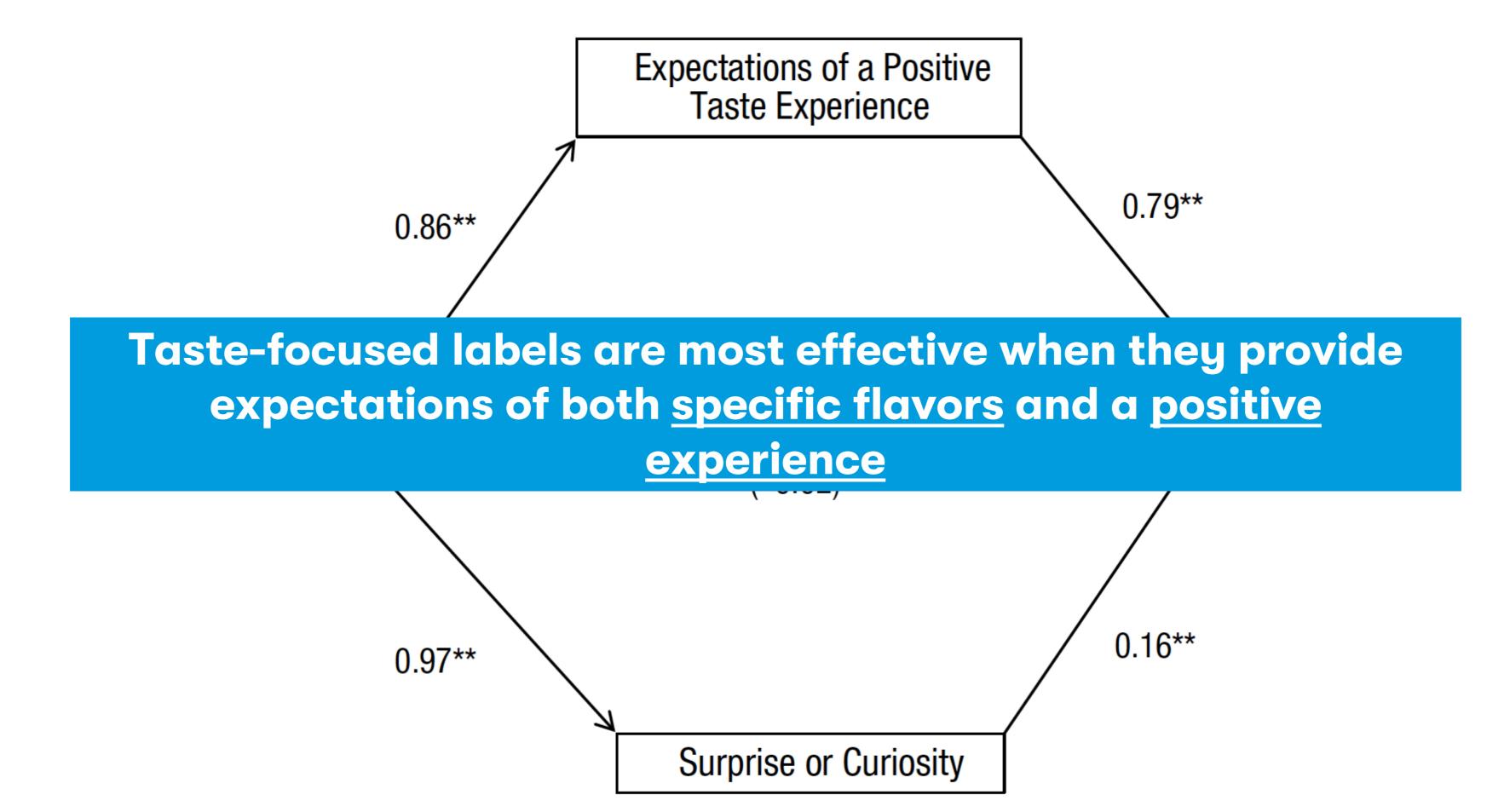
Psychological Science 2019, Vol. 30(11) 1603–1615



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#### **Expectations of a Positive Taste Experience Strongly Mediates** the Effect of Taste-Focused Label on Vegetable Selection



Psychological Science 2019, Vol. 30(11) 1603–1615



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### **The Impact Herbs & Spices Have On Improving Diet Quality**

- added sugars
- Seasoning vegetables with herbs & spices may increase intake of vegetables  $\bullet$



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Herbs & spices have the potential to improve the acceptability of foods lower in saturated fat, sodium &

Highlighting herbs & spices through taste-focused labeling may promote intake of vegetables



## The Impact Herbs & Spices Have On Improving Diet Quality: PRACTICAL APPLICATIONS



### **Applications In Retail**

#### "Pantry play"

- Merchandising strategies
  - Cross-aisle promotion Ο
  - E-commerce opportunities Ο
  - Recipe cards in-aisle Ο



#### Fresh herbs are now eligible for the WIC Cash Value Benefit (CVB) based on the updated WIC food packages released in April 2024





Photo credit: Anna Stories (Canva); Kali9 (Getty Images Signature)

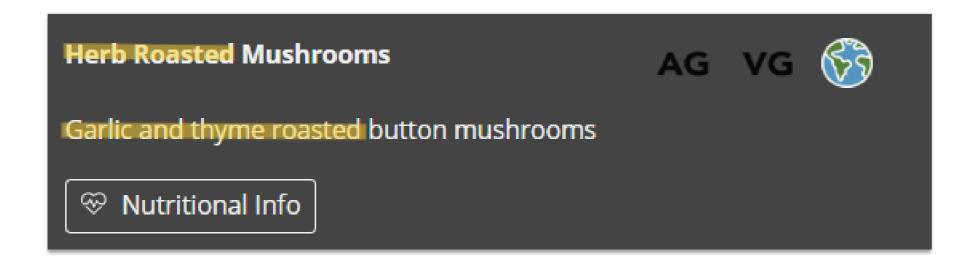




### **Applications In Foodservice**

- Menu Planning & Usage
  - In-service trainings: best practices on storage & utilization Ο
- Menu Labeling
  - Taste focused  $\bigcirc$
  - Flavor profiles

Garlic Chickpeas, Tomatoes and
Chickpeas with tomatoes, onions
😵 Nutritional Info







and tasty garlic

PR	AG	VG	6
		AG	VG
	AG	VG	63
			PR
	PR		PR AG VG AG VG

Colgate University, Dine on Campus, 9/19/24





### **Applications In Digital & Social**

- **Recipe labeling & tagging** 
  - Taste focused  $\bigcirc$
  - Flavor profiles
- Keep it short
  - o 5-10 ingredients/steps
- Experimentation
  - Let kids explore herbs & spices at the table Ο
  - Get creative with dips

#### Spice is a way to learn about a culture & share an appreciation for good food





MUSHROOM Pairs well with: Variety of protei including seafood, steak, beef, veal, eggs; A variety of both soft and hard



PUMPKIN Pairs well with: Cranberrie celery, radishes; Gorgonzola cream cheese, hazelnut pecans; Turkey, Salmo



CRANBERRIES Pairs well with: Apples, pumpkin sweet potatoes, Cinnamon, allspice; Creamy, soft cheeses Turkey, salmon, pork



PRODUCE PAIRING GUIDE

SWEET CORN well with: Avocado, peach, spring nion, lime; Cumin, paprika, cilantro Parmesan, feta, burrata; Scallop, chicken, crab, shrimp, fish



APPLES Pairs well with: Brussel sprouts cabbage, celery; Cardamom, loves, cinnamon, nutmeg; Mapl syrup, peanut butter; Cheddai



PEARS Pairs well with: Cherries, onions & figs; Ginger, Pistachios, chives, cinnamon; Maple syrup, caramel, ham, goat cheese & hard cheeses



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GRAPES Pairs well with: Strawber apple, pear; Mint, haz ginger; Proteins like f pork; Variety of che



Pairs well with: Berr stone fruits; Lime, cardamom; Duck, roa



CAULIFLOW Pairs well with: A pumpkin, celery, alm Blue cheese, parm

rice, saffro



APPLES Pairs well with: Brussel sprouts, cabbage, celery; Cardamom, cloves, cinnamon, nutmeg; Maple syrup, peanut butter; Cheddar



PEARS Pairs well with: Cherries, onions & figs; Ginger, Pistachios, chives, cinnamon; Maple syrup, caramel, ham, goat cheese & hard cheeses



PLUMS Pairs well with: Berries, citrus, stone fruits; Lime, fennel, cardamom: Duck, roasted pork & ribs



CAULIFLOWER Pairs well with: Apples, pumpkin, celery, almonds, dill; Blue cheese, parmesan; Beef, rice, saffron

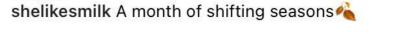
@shelikesmilk, Instagram, 9/19/24

She Likes Milk

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what foods are you looking forward to most as we enter fall this month?





# QUESTIONS & DISCUSSION



## JOIN THE MOVEMENT



- Join the Have A Plant<sup>®</sup> community at fruitsandveggies.org/jointhenetwork
- Follow our social channels! #haveaplant  $(\mathbf{O})$







- Celebrate National Fruits & Veggies Month to elevate fruit and vegetable consumption to a national priority.
- Use the <u>NEW Toolkit</u> to join the NFVM 2024 celebration before it's over! #NFVM2024



## **CONTINUE TO EXPAND YOUR** EXPERTISE

#### fruitsandveggies.org/webinars

Visit our on-demand catalog of webinars on various fruit and vegetable topics including the following and many, many more!









# THANK YOU!

We live at the center of produce, partnership and passion.

### WE'RE SO HAPPY YOU'RE WITH US!



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