PRODUCE FOR® BETTER HEALTH FOUNDATION

Webinar | January 25th at 2 pm EST

PLANT-ENTIONS

Using Behavioral Science Principles To Increase Fruit & Vegetable Consumption



Presented by Dr. Jason Riis PBH Chief Behavioral Scientist



WENDY REINHARDT KAPSAK, MS, RDN

PRESIDENT & CEO PRODUCE FOR BETTER HEALTH FOUNDATION

MODERATOR



PRODUCE FOR® BETTER HEALTH FOUNDATION

ABOUT PBH

PRODUCE FOR® BETTER HEALTH FOUNDATION

11111

OUR PURPOSE

The Produce for Better Health Foundation (PBH), a 501(c)3, is the only national non-profit organization 100% dedicated to helping people live happier, healthier lives by eating and enjoying more fruits and vegetables, in every form, each and every day.

PBH, along with its strategic partners, will elevate new fruit and vegetable consumption behaviors as a national priority – *accelerating growth and serving the public good*.

THE AWARD-WINNING HAVE A PLANT® MOVEMENT REACHES MILLIONS

The award-winning Have A Plant® Movement is a way to inspire lasting behavior change by tapping into the emotional connection consumers have to the fruit and vegetable eating experience.

PBH is an undeniable resource for health & wellness professionals, given its trusted third-party credibility, breadth of nutrition and behavioral research, and strong consumer, influencer and industry reach.





500 Million social media impressions 700 Million traditional media

have a

impressions

Have a Plant®: The Plant-Forward Eating Guide

Insights, Ideas & Inspirations for Plant-Passionate Professionals

Find the guide at: <u>www.fruitsandveggies.org/plantforwardguide</u>

Turnkey resources are also available to put your plans into action at: <u>www.fruitsandveggies.org/plantforwardtoolkit</u>



The 2020 PBH State Of The Plate Research Toolkit Provides Health & Wellness Professionals With Helpful Resources.

PUBLIC TOOLKIT

PBH State Of The Plate Research Toolkit with executive summary, key messages, consumer marketing and social media assets as well as activation ideas

fruitsandveggies.org/ stateoftheplatetoolkit

Fruits & Veggies Stories Recipes Expert Advice State Of The Plate **STATE**OF THE PB PLA FOUNDATION Solutions To Help Americans Easily **Enjoy More Fruits & Vegetables** 2020 PBH State Of The Plate Toolkit **Start With Fruits** Have A Plan. Count All Forms & Veggies Have A Plant® Mix up fresh frozen dried. f y a canned and 100% juice. Make a habit of eating a fruit Map your meals and snacks or veggie first during at least making fruits and veggies the stars 1 meal each dau. The results are in. As a society, we are chronic underachievers at eating our fruits and veggies and, subsequently, we are short-changing the health and well-being of generations of Americans. In 2020 PBH commissioned an update to our trended fruit and vegetable consumption research. Sadlu, the news is not as encouraging as we would hope. America's fruit and vegetable consumption continues 5 % to erode over time. We must act NOW to reverse this trend. We owe it to Americans to help them easily eat, enjoy and maybe even love more fruits and vegetable for improved health and happiness. Please use the resources and insights at the links below to join us Make The Doing Easy in making a new era of conscious consumption a reality! #haveaplant Hit Repea Keep it simple and pair 1 more Consistent repetition will fruit or vegetable with a fave um consciouslu eating mor 2020 PRH State Of The Plate Executive Summar food each day. Additional access to the PBH 2020 State of the Plate research is exclusive to PBH members and Lea The Change supporters. Send us an email to request access. Key Messages & Supporting Data Points SHOUL [pdf] [docx] Frequently Asked Questions **A RING** Sample Social Media Posts [pdf] [docx] ON For more information on the PBH State of the Plate rese **Digital & Social Media Graphics** visit www.fruitsandveggles.org/stateoftheplate Follow PBH on social media for plant-packed inspiration. #haveau View Official 2020 PBH State of the Plate Press Release Sample Media Pitch [pdf] [docx] Activation Ideas [pdf] [docx]

PRODUCE FOR® BETTER HEALTH FOUNDATION

© 2020 Produce for Better Health Foundation

Housekeeping

1 CPEU available through the Commission on Dietetic Registration (CDR) You will receive a link to the certificate of attendance, the webinar recording and PDF of the presentation within 48-72 hours.

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



TODAY'S SPEAKER

Jason Riis

PBH Chief Behavioral Scientist

PRODUCE FOR® BETTER HEALTH FOUNDATION

© 2020 Produce for Better Health Foundation

Most Americans know they need to eat more fruits and vegetables to improve their health.

PBH is helping people feel inspired to want to eat more fruits and vegetables, making this action part of what they do every day.

KNOW FEEL

DO

Shift From KNOWING To FEELING & DOING



Higher

Impact

What people KNOW Facts and skills

Less Emphasis

What people FEEL Desires and emotions

What people DO Routines, plans, impulses, trial and conversations

More Emphasis

"If you want people to do something, make it easy."

Richard Thaler Nobel Prize Winner, 2017



© 2020 Produce for Better Health Foundation



Help consumers make it easy to ...

See	Grab	Find	Eat immediately	Plan
		60		
Keep Around	Buy	Get Into Their Mouth	Get Into Their Kids' Mouths	Swallow
				J
Like	Clean	Pack	Remember	Habituative
			\bigcirc_{\circ}	ر ٢

Habits Are Systems.

"You do not rise to the level of your goals. You fall to the level of your systems."

> James Clear Author of "Atomic Habits"





What Is A Habit?

Habits are automatic behaviors that we have internalized.

A habit is not what an action is, but rather how you perform the action.

Source: Wood, W. (2019) Good Habits Bad Habits, Farrar, Straus and Giroux. Pg. 25





A Large Percentage of Fruit & Vegetable Consumption Is Habitual.

"About 43% of what people do every day is repeated in the same context, usually while they are thinking about something else."

Wendy Wood









Fruit and vegetable habits are understudied.

Habit-like fruit and vegetable behavior systems:

- Fruits often consumed at breakfast, but vegetables generally are not.
- Fruits are incorporated into and associated with desserts, but vegetables generally are not.
- Fruits and vegetables are often served as sides rather than the main dish.



How are habits formed?



ROUTINE BEHAVIOR

PRODUCE FOR® BETTER HEALTH FOUNDATION

© 2020 Produce for Better Health Foundation

It's behavior (doing), but we need to <u>know</u> a lot about how habits work to help people create them.



ROUTINE BEHAVIOR



© 2020 Produce for Better Health Foundation

The automatic behavior is not automatic at first.

Habits form from repetition At first, taking the train to work involves decisions



Time to leave home, Find transit stop, Route to take....



With repetition, habit memories form... ...Connecting rewarded responses with contexts (where/when/with whom)



Context->response; context->response; context->response; context->response....

The key to creating new habits is repetition.

Repeating the action leads to automaticity, which is the defining feature of habits.



Repetition is hella important.

For an action to become a habit, consumers have to repeat the heck out the behavior at the same time and in the same context.

"It can take two to three months to form a simple habit—to make something so automated that you don't have to think about it, you just do it."

Wendy Wood Author of "Good Habits Bad Habits"



Why don't we study habits?

Problem: we underestimate habits

Lure of phenomenology:

- When explaining actions, we overvalue introspections, our own thoughts, feelings, and emotions (Pronin, 2009)
 - Salient, feel meaningful

Habits are understudied. PBH is helping.

A new study to be released this year, begins to answer questions like:

- Do consumers work on their FV habits?
- Do consumers understand importance of habits vs. willpower?
- Do consumers reward themselves for FV consumption?
- Do they know how important repetition is in habit formation?
- Do they feel automaticity when shopping or consuming FV?

Habits are understudied. PBH is helping.



ROUTINE BEHAVIOR



© 2020 Produce for Better Health Foundation

1. Cues What can trigger the behavior (almost automatically)



PRODUCE FOR® BETTER HEALTH FOUNDATION

© 2020 Produce for Better Health Foundation

Piggybacking

Compelling Correlations:

- 90% of regular exercisers associate a location or time cue with exercise (Tappe et al., 2013)
- Medication adherence is higher among those with regular, pilltaking routines (Brooks et al., 2014)





Piggybacking

Experimental Evidence:

 Habit formation interventions that encourage people to add a behavior to a routine they already engage in (e.g., adding flossing to a regularly-scheduled tooth-brushing routine) work better than those that simply encourage a new behavior (e.g., flossing) (Alison Phillips, Leventhal, & Leventhal, 2013; Judah, Gardner, & Aunger, 2013)



Which cues can we piggyback on?

- Morning routine
- Lunch
- Commute
- •



2. Behaviors Which behaviors can become habits?



© 2020 Produce for Better Health Foundation

have a plant FRUITS & VEGGIES FOR BETTER HEALTH

ice Contributors

SIGN UP LOG IN

////

O ADD TO LIST



Habits: The Ultimate Way To Make Eating Fruits & Vegetables Easy

By Jason Riis



PRODUCE FOR® BETTER HEALTH FOUNDATION

© 2020 Produce for Better Health Foundation

https://fruitsandveggies.org/stories/habits-the-ultimate-way-to-make-it-easy-to-do-fruit-and-vegetable-consumption/

Making habits easy

Pick a simple behavior

(1)

















have a plant. FRUITS & VEGGIES FOR BETTER HEALTH

C ADD TO LIST

Eat Fruits & Vegetables First: A Great Way To Make It Easy To Eat More Fruits & Vegetables

STORIE

By Jason Riis

PRODUCE FOR® BETTER HEALTH FOUNDATION

© 2020 Produce for Better Health Foundation

https://fruitsandveggies.org/stories/eat-fruits-and-vegetables-first-a-great-way-to-make-it-easy-to-eat-more-fruits-and-vegetables/

Eating fruits and veggies FIRST

A great way to make eating fruits and veggies easy is by eating/serving them first.

Simple intervention of school cafeterias serving bell peppers to students while they waited in line.

Kids consumed <u>6 times</u> more vegetable servings when offered while they waited!



Source: Elsbend, S. L., Reicks, M. M., Mann, T. L., Redden, J. P., Mykerezi, E. & Vickers, Z. M. (2016).

Serving Vegetables First: A Strategy to Increase Vegetable Consumption in Elementary School Cafeterias. Appetite, 96, 111-115.



© 2020 Produce for Better Health Foundation
Are you doing something to get people to make a habit of eating fruits and veggies first?

A question for dietitians and other nutrition communicators



Simple suggestions for helping consumers eat fruits and/or veggies first

Consumer Habit

Have everyone eat a fruit and/or veggie while preparing the rest of the meal.

How can you support this habit?

Encourage purchase of packaged, pre-cut, single fruit or veggie serving that parents can hand to children while they are cooking.





Simple suggestions for helping consumers eat fruits and/or veggies first

Consumer Habit

Call it an appetizer or the "pre-dinner power chomp" to make it fun.

How can you support this habit?

Create a list of great FV to consume first.





Good behaviors to habitualize

- FV first
- Half plate FV
- Favorite FV at each lunch (and dinner)
- Fruit with breakfast (piggyback)
- Veggie w lunch/dinner/commute (piggyback)
- Creating FV snack packs
- Shop FV first
- Eat your favorite FV more often



3. Reward How can we reward the behavior?



PRODUCE FOR® BETTER HEALTH FOUNDATION

There are many types of reward

- Money
- Social reward
- Taste experience

Note: Intermittent reward may be more effective than consistent reward.



Reward can be social. Can you create tags or themes people can post as reward? #HabitStarter

A question for dietitians and other nutrition communicators

Social reward counts. People enjoy taking and sharing pics. That can be a reward.

Example post:

Plant-packed grocery full of fun fruits and healthy veggies.

Pictures of your kids picking out veggies

#VeggieHaul #haveaplant

Note: Intermittent reward works. So they don't have to post each time!





Social reward counts.

Example post:

Kids helping parents plan, prep and prepare fruits and vegetables.

#VeggieChef #haveaplant



PRODUCE FOR® BETTER HEALTH

Social reward counts.

Example post:

A fun and delicious dinner featuring friends and plant-packed dishes.

#VeggieDinnerParty #haveaplant



PRODUCE FOR® BETTER HEALTH © 2020 Produce for E

We understate the importance of habit



PRODUCE FOR® BETTER HEALTH FOUNDATION

THE SCIENCE OF MAKING POSITIVE CHANGES THAT STICK





WENDY WOOD

"Wendy Wood is the world's foremost expert in the field, and this book is essential." —ANGELA DUCKWORTH, *New York Times*-bestselling author of *Grit*

PRODUCE FOR® BETTER HEALTH FOUNDATION

Experimental test of explanations for choices Habit vs. mood

Manipulated two possible influences on responding

- 1. Participants recalled happy, sad, or neutral memory
- **2.** Formed habit through key press task
 - Strong habit: 90% of trials "m" key
 - Weak habit: 50% "m" key, 50% "z" key



Are you willing to complete 40 additional trials (~5 minutes) as a favor to us (without additional compensation)?





Are you willing to complete 40 additional trials (~5 minutes) as a favor to us (without additional compensation)?



PRODUCE FOR® BETTER HEALTH FOUNDATION

© 2020 Produce for Better Health Foundation

Mazar & Wood (2022, Psych Science) 51

Are you willing to complete 40 additional trials (~5 minutes) as a favor to us (without additional compensation)?





Habit to hit M/No button reduced % agreeing to help



No effect of mood manipulation on helping

PRODUCE FOR® BETTER HEALTH FOUNDATION

But...attributed helping more to mood than to habit



BETTER HEALTH

© 2020 Produce for Better Health Foundation

Mazar & Wood (2022, Psych Science) 54

- Habit, not mood guided behavior
- Attributions stronger to mood than to habit
- Replicated with an ecological momentary assessment study of daily coffee drinking
 - Both fatigue and habit determined coffee drinking
 - Attributed coffee drinking primarily to fatigue



Helping people get started with new habits



PRODUCE FOR® BETTER HEALTH © 2020 Pro

How to help people form habits

- Know the power of habit
 Know what to piggyback on
 Know the right behaviors for habits
- **4. Feel the reward5. Feel the automaticity**

6. Do it. Repeat, repeat, repeat7. Do it. Make it easy (and enjoyable)



Know the power of habit

People underappreciate the power of habit on their own behavior and on other's behavior. THE SCIENCE OF MAKING POSITIVE CHANGES THAT STICK





WENDY WOOD

"Wendy Wood is the world's foremost expert in the field, and this book is essential." —ANGELA DUCKWORTH, *New York Times*-bestselling author of *Grit*

Know what to piggyback on

Specific times and place where there is already a consistent routine





Know the right behaviors for habits

- Specific behaviors
- Easy behaviors

Examples:

- Prepare FV snacks
- Eat FV first at meals





Feel the reward

There should be some pleasure immediately after the habitual behavior.

The pleasure can be social. (Taking and sharing pictures)

The pleasure can be intermittent



Feel the automaticity (or lack of it)

Habits are automatic behaviors that we have internalized. A habit is not what an action is, but rather how you perform the action.

Ask: Are any of your FV behaviors "automatic"?





Do it. Repeat, repeat, repeat, repeat.

"It can take two to three months to form a simple habit—to make something so automated that you don't have to think about it, you just do it."

Wendy Wood

Author of "Good Habits Bad Habits"





Do it. Make it easy.

"If you want people to do something, make it easy."

Richard Thaler Nobel Prize Winner, 2017



PRODUCE FOR® BETTER HEALTH



De-Sig



HELP SUPPORT FRUIT & VEGGIE CONSUMPTION!

If you enjoyed today's Health & Wellness webinar and would like to support our overall mission of increasing fruit and vegetable consumption, we encourage you to make a **tax-deductible donation** today.

As a 501(c)3 non-profit organization, your donation helps us deliver programing, including our monthly health and wellness webinars, actionable research, future-focused education, a comprehensive digital ecosystem, and inspirational resources that helps millions discover the joy of eating fruit and vegetables each and every day. **TOGETHER – with your support – we are creating happier, healthier lives!**

To donate, add the Donations app to Zoom: https://pldg.to/RiLcYw

Or donate with your phone: Text HAVEAPLANT to 707070 (US only)

JOIN THE MOVEMENT



Show your support by taking and sharing the Have A Plant[®] pledge at fruitsandveggies.org. While you're there, check out the useful resources to equip you with the tools you need to enhance your nutrition knowledge and empower consumers to enjoy more fruits and vegetables every day.

Follow PBH's social channels to keep up to date on all the insights and inspiration. #haveaplant





@fruitsandveggies (in) Proc

) Produce for Better Health Foundation



September is National Fruits & Veggies Month and each year we celebrate Have A Plant[®] during this monumental moment.

2022 is just around the corner, start planning now!

Find inspiration for keeping the celebration going with our 2021 National Fruits & Veggies Month Toolkit!



https://fruitsandveggies.org/nfvmtoolkit

A catalog of PBH's past webinars is available at <u>fruitsandveggies.org/expert-professionals/webinars</u>.

Continuing professional education units (CPEU) are available for live and pre-recorded webinars.



PRODUCE FOR® BETTER HEALTH FOUNDATION



THANK YOU

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

WE ARE SO HAPPY YOU'RE WITH US!



