Message testing to promote plantbased foods among urban families

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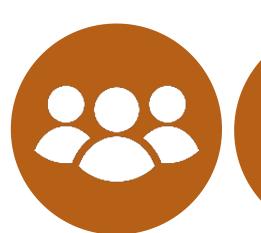
Background | People living in **urban** areas make up a large portion of the US population; shifting their diets to decrease red meat consumption can have large impacts on the environment.

Our interdisciplinary team comprising an MD, behavioral economist, health promotion experts, survey methodologists, and qualitative experts sought to identify promising messages to encourage substituting meat in one's diet with plant-based alternatives, focusing on families living in an **urban** environment.

Methods | A literature review informed our semi-structured interview protocol. Rapid qualitative analysis of data from the 15 completed interviews identified 2 motivators and 3 barriers to reducing meat consumption among this population.

We then created 24 "headlines", that appealed to a motivation and addressed a barrier, then in June-December 2022 tested headlines via paper/web convenience survey of adults living in and around St. Paul, MN. A key survey question asked which headlines would lead respondents to want to watch, listen, or read more about the information that might follow, referred to here as "likelihood to click" based on the idea that they may appear on social media or elsewhere online.

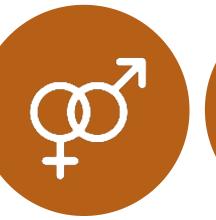
Results | 144 people were eligible and completed the survey.

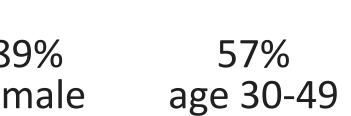


non-Hispanic

white

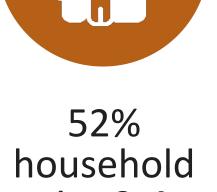


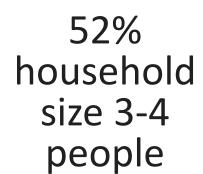






52%





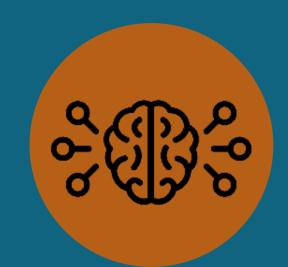


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Can you identify the message that families liked the most?

7 headlines were significantly more likely to be clicked than not. One headline was significantly less likely to be clicked. Take this quiz to see if you can identify the headlines that respondents said they would be most likely to click on!







Family habits barrier

Nutrition knowledge barrier

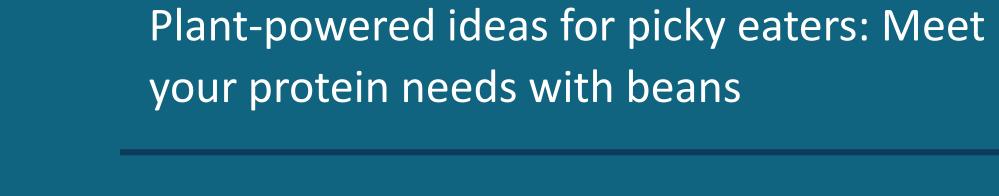
friendly, protein-packed recipes	Join the PowerUp Green Team: Planet
	friendly, protein-packed recipes



motivator







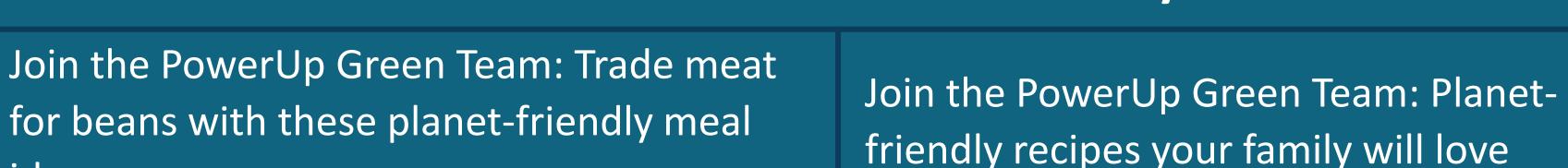
Try the Bean Swap: Meet your needs with protein-packed meatless meals

fuels your body for play

PowerUp with plant-protein: Healthy family meals on a budget

Switch it up with beans: Just a ½ cup a day

Skills barrier



ideas Try Beans: Good for the planet. Easy to add Try Beans: Good for the planet. Mealtime fun for the family to any meal

Plant some healthy habits with plant-based, Sustainable Saturdays: Just one plant-based meal a week does wonders for the world earth-friendly foods

Be Green with Beans: Simple to slip into any Be Green with Beans: Kid-friendly, earthapproved recipes meal

Plant-powered proteins for picky eaters: Plant-powered proteins for picky eaters: Make battle-free meals with beans Simple bean ideas to the rescue

Try the Bean Swap: Trade meat for beans Try the Bean Swap: Meatless makeovers for with these simple suppers protein-packed family favorites

Switch it up with beans: Just slip into main Switch it up with beans. Try out these healthy dishes for a plant- protein boost foods that are kid-approved

PowerUp with plant-protein: Rotate in PowerUp with plant-protein: A healthy way to stretch your food budget weekly recipes

Takeaways

8

Seven headlines were more likely to be clicked than not. While they spanned different motivators and barriers, only one was about beans. Future messaging should prioritize using the best-performing headlines and avoid using headlines that mention beans.

Future interventions should address participant-reported barriers, specifically the family habits and preferences barrier which performed better than knowledge and skills.

Next steps involve testing the top 2 messages to see which is associated with PowerUp program intervention participation and decreased red meat consumption.