Of Professional Interest

Cooking Habits Provide a Key to Five-a-Day Success*

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Cooking Habits Provide a Key to Five-a-Day Success

Fruits are not vegetables. What makes one person become a fruit lover and another become a vegetable lover? If we knew what these differences were, we could more effectively encourage our clients and our country to eat more fruits or vegetables simply by tailoring our education efforts by using different and more relevant messages and media (e.g., 1-3).

Although fruit-prone and vegetable-prone lovers may have some demographic (4) and genetic (5) differences, they might also differ in their cooking habits and food preferences (6). Take a person’s cooking habits. While fruits are typically eaten raw for breakfast, lunch, or snacks, vegetables are typically cooked with meals or supplemented with sauces and dressings. Even when eaten raw, vegetables require some degree of preparation such as peeling or trimming. Because they often require more involvement, people who are vegetable-prone may also be more accustomed to food preparation (7).

Fruit-prone and vegetable-prone people may also differ in the other types of foods they prefer. Fruits are generally sweeter than vegetables, and fruit lovers may prefer sweeter foods and desserts compared to vegetable lovers (6). Conversely, vegetables tend to run the range from bitter to savory, and a vegetable lover might prefer the strong and savory tastes of exotic or spicy foods, and perhaps even the bitter tannins of red wines (8).

Of course not all fruit lovers are the same, nor are all vegetable lovers the same. There are sub-segments of fruit lovers who are adventurous gourmet chefs, and there are sub-segments of vegetable lovers who hate spices and love desserts. The purpose of this FYI is to show how
treating fruit-prone people differently than vegetable-prone people can improve your clinical effectiveness. Knowing how fruit lovers differ from vegetable lovers will give us insight in this direction.

To do this, we first conducted in-depth interviews about the cooking habits and food preferences of 37 supermarket shoppers in Illinois and Michigan. Based on these findings and the literature, an IRB-approved survey was developed. The survey first asked questions which enabled people to be categorized as fruit lovers, vegetable lovers, both, or neither. It then asked standard frequency questions (9) related to their cooking habits and food preferences (“In a typical month, how many times have you had guests for dinner?”). Demographic questions were asked last.

Two thousand Americans were randomly selected from census data, and paid $6.00 to complete a mailed survey. The 770 people (38.5%) who completed it within six weeks had an average of 1.6 children living at home, were 37.3 years old, had a median household income of $38,000, were 70% Anglo-American, and were 61% female. Of these, 508 could be categorized as vegetable lovers or as fruit lovers using a cross-classification technique (10) based upon their preference ratings for fruits and vegetables and by their self-perceptions.

As Table 1 shows, vegetable lovers differ from fruit lovers in both their cooking habits and their food preferences. Consider their cooking habits. Vegetable lovers tend to entertain guests more frequently (4.1 vs. 2.6 times per month), cook nutritious meals more frequently (5.4 vs. 4.4 times per week), and try new recipes more frequently (6.9 vs. 4.4 times per month) than fruit lovers. These differences are consistent with the observations of Franey (11) who noted that adventurous good cooks tend to have an appreciation and a talent for working with vegetables and enjoy cooking for others.
Table 1.
Vegetable Lovers are Different than Fruit Lovers

<table>
<thead>
<tr>
<th></th>
<th>Vegetable Lovers . . . (n=250)</th>
<th>Fruit Lovers . . . (n=258)</th>
<th>F-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>They Differ in their Cooking Habits</td>
<td>…More frequently have guests for dinner</td>
<td>…Less frequently have guests for dinner</td>
<td>15.72*</td>
</tr>
<tr>
<td></td>
<td>…More frequently claim to cook nutritious meals</td>
<td>…Less frequently claim to cook nutritious meals</td>
<td>5.78*</td>
</tr>
<tr>
<td></td>
<td>…More frequently make new recipes they have never made before</td>
<td>…Less frequently make new recipes they have never made before</td>
<td>9.72*</td>
</tr>
<tr>
<td>They Differ in their Food Preferences</td>
<td>…More frequently eat spicy food</td>
<td>…Less frequently eat spicy food</td>
<td>7.68*</td>
</tr>
<tr>
<td></td>
<td>…More frequently drink wine with dinner</td>
<td>…Less frequently drink wine with dinner</td>
<td>6.72*</td>
</tr>
<tr>
<td></td>
<td>…Less frequently eat dessert after dinner</td>
<td>…More frequently eat dessert after dinner</td>
<td>12.09*</td>
</tr>
</tbody>
</table>

* p < .01

The two groups also have different food preferences. Vegetable lovers eat spicy foods more frequently (6.3 vs. 5.5 times per month), drink wine with dinner more frequently (4.2 vs. 2.6 times per month), but eat desserts less frequently (2.0 vs. 2.9 times per week) than fruit lovers. The results are consistent with what we might expect. A vegetable-lover’s taste for savory or bitter taste sensations is consistent with an attraction to spicy foods and tannic red wine (6), and a fruit-lover’s sweet tooth is consistent with an attraction to desserts.

This is an important topic. Yet due to its exploratory nature, it has limitations of scale. It involved a moderate-sized sample (n=770), it used no control group, and IRB confidentiality restrictions limited the demographic information that could be collected. Future efforts can validate and extend these findings using multi-stage clustering.
techniques (12). Yet while the findings reported here are exploratory, they still offer important insights for dietary therapy and prevention.

Our clinical education efforts will be more effective if we approach fruit-prone people differently than those who are instead vegetable-prone. If you know that a client enjoys cooking, entertaining, and experimenting with new recipes, she or he is likely to be more responsive to a specific vegetable-related message than to a general, “I’ve-heard-it-all-before” lecture about how fruits and vegetables are healthy. You can show them how vegetables can enhance a meal, can impress dinner guests, can make recipes taste different, can be used with spices, and can compliment the right wine.

Conversely, if you know that a client is less adventurous in their cooking habits and tends to prefer sweets and desserts after a meal, he or she might be more responsive to a specific fruit-related message than a colorful-but-boring brochure on how vegetables and fruits are good for them. You can show them how fruits are healthy replacements for desserts or for sweet snacks, and how fruits offer a convenient and easy way to compliment a meal without requiring much time, talent, effort, or know-how.

It is easy to ask a couple simple questions that will give you a rough idea whether a person is more likely to be vegetable-prone, fruit-prone, both, or neither. Simply ask them about their cooking habits and the foods they like to eat. If they say they like to cook, like to entertain, like to try new recipes, and like spicy food, tell them how vegetables can make their meals even better. If they say they like desserts and foods that do not take much time or talent to cook, tell them how fruits can quickly and sweetly add something to their routine.

Let’s move beyond your professional practice. Targeting fruit-prone and vegetable-prone people differently is also relevant to national education and promotional
efforts, such as the Five-a-Day for Better Health program. Such programs could enhance their effectiveness by altering a generic “fruits and vegetables” message and by tailoring a different message and media strategy to fruit-prone segments than they do to vegetable-prone segments. Knowing the basic cooking habits and food preferences of these two different groups can offer insights into what types of media (such as which magazines or which form of in-store signage) would be most likely to reach which group. Messages can then be tailored appropriately. For health professionals and educators, the importance of targeting different messages to differently predisposed target markets can mean the difference between a cost-effective program and a wasted effort (6).
References


