Context Shapes Choice of Healthy Foods

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Given a choice between indulgent and healthy foods, what will most people pick? The answer may depend on what other foods sit nearby on the grocery shelf, suggests <u>research published in Psychological Science</u>, a journal of the <u>Association for Psychological Science</u>.

Paradoxically, the nearby presence of an indulgent treat cancause more people to opt for a healthy food, said study coauthor Scott Huettel, professor of psychology and neuroscience at Duke University. Context, in otherwords, affects food choices.

"When people choose foods, they don't simply reach intotheir memory and pick the most-preferred food. Instead, how much we prefersomething actually depends on what other options are available," Huettelsaid.

"If you see one healthy food and one unhealthy food, mostpeople will choose the indulgent food," he said. "But if you add moreunhealthy foods, it seems, suddenly the healthy food stands out."

With obesity rates climbing, the authors wanted to examine factors that drive dietary choices. So they

designed a study to look at howviewing indulgent sweet treats such as Snickers and Oreos affected the choiceof healthier foods such as salmon or grapefruit.

They invited study participants — 79 young adults from the Durham-ChapelHill area — to fast for 4 hours beforehand, so they arrived hungry.

First, study participants chose between indulgent foods (tastybut not healthy) and disciplined foods (healthy but not tasty). When given a simple one-to-one choice, say between canned salmon and Oreo cookies, nearly all subjects preferred the indulgent snack.

But researchers then took the same options and paired each withan indulgent food. For instance, participants saw salmon paired with Oreos, and Snickers paired with Oreos. Participants were told they had a 50 percent chanceof getting either item in a pair.

When presented with that choice, participants were twice aslikely to choose the pair that included a healthy option, such as salmon and Oreos.

One possible explanation involves attention. The healthy item —salmon, say — was the different item among the choices, so it stood outvisually. Researchers tracked subjects' eye movements and found that subjectsspent more time looking at salmon and other healthy foods when they were surrounded by indulgent treats.

The results could have implications for the nation's ongoing battle with obesity.

For instance, in many neighborhoods, healthy food is hard tocome by. These "food deserts," where junk food and fast food abound whilefresh produce and healthy protein sources are scarce, cover large areas of thecountry. Yet simply adding healthy choices, such as by adding a small producesection to a corner store, typically hasn't worked, said study coauthorNicolette Sullivan, a postdoctoral associate in psychology at Duke.

The new research suggests part of the problem in that approachmay be how food is displayed, Sullivan said.

"When people see a wall of cabbage and broccoli, that maynot encourage people to choose it," Sullivan said.

"Right now, food items are very segregated: here's theproduce, here are the candy bars," she said. "Yet maybe if we putsomething healthy in the middle of the snack food section, perhaps that mightencourage people to choose it."

She hopes the research can guide new approaches to encouraginghealthier diets.

"Individuals struggle with making healthy choices," Sullivan said. "if we can change the set of foods people are choosing between, people may make healthier choices. And that could have a profound impact."

All data and materials have been made <u>publicly available via</u>	the Open Science Framework. This articl	e
has received the <u>badges for Open Data and Open Materials</u> .		