The Public Health Impact of SNAP

The public health impact of SNAP

SNAP is a powerful food safety net program and has many positive public health impacts. The program helps to reduce poverty, food insecurity, health care expenditures, and the risk of chronic conditions later in life. Yet eligibility criteria exclude many people experiencing food insecurity, and six out of 10 SNAP participants point to cost as a major barrier to healthy eating. As the USDA recently cited, in order to strengthen the public health impact of SNAP we must ensure both food and nutrition security for program participants.

Poverty

SNAP lifts people out of poverty, including from deep poverty, especially in households with children. In 2020, participation in SNAP alone lifted 2.9 million people to incomes above the poverty line. SNAP benefits free up household income for other basic needs, such as housing, utility bills, and medications. For people moving out of poverty, SNAP’s high income eligibility requirements can help avoid the “cliff effect” and help ease households’ benefits as they earn more income.

Health Care Expenditures and Chronic Disease Risk

People with lower incomes spend a higher percentage of their income on health care coverage and out-of-pocket medical care compared to their higher income counterparts. Participation in SNAP has been linked to improved health outcomes across all age groups, helping to relieve the risk of chronic disease and their associated medical costs.

• Among children: participation in SNAP results in better physical health, growth, and development than their SNAP eligible non-participant peers. Research shows that SNAP participation is associated with increased access to health care, fewer missed school days due to illness, improved academic performance, and decreased poor health status and developmental risk. Additionally, adults who participated in SNAP in childhood had reduced risk for obesity, cardiovascular disease, and type 2 diabetes later in life.

• Among adults: SNAP participation increases the probability of reporting good or very good health and is associated with fewer missed work days due to illness. There are mixed results on how SNAP affects mortality in adults. One study found that families that participated in SNAP during the previous year had a higher risk of death due to metabolic diseases, such as cardiovascular disease and diabetes, when compared to SNAP-eligible nonparticipants. On the contrary, another study showed that SNAP is associated with decreasing premature death from all causes as well as deaths of despair in middle-aged adults. Parsing out SNAP’s effect on participant mortality may require more rigorous study design, including controlling for the self-selection effect.

• Among older adults: SNAP participation is associated with reduced hospitalizations and health care spending, with substantial reductions in annual Medicaid expenses. Higher SNAP benefits also are associated with fewer nursing home admissions. For those with chronic diseases such as diabetes, SNAP participation is associated with better medication adherence, compared to older adults who are eligible but not participating in SNAP. Increased SNAP eligibility (and presumably subsequent enrollment) is associated with reduced prevalence of diet-
related diseases, including hypertension, coronary heart disease and stroke, diabetes, and cancer, especially for those in the lowest income group. These results were not associated with number of doctor visits or medical expenditures, suggesting that SNAP may independently play a role in preventing chronic illness.

**Food Security**

SNAP helps to address the four pillars of food security, as defined by the Food and Agriculture Organization (FAO):

- **Availability**: EBT can be used at over 250,000 SNAP retailers, ranging from large superstores to small convenience markets.
- **Accessibility/Utilization**: SNAP offers financial resources to purchase food through socially acceptable means.
- **Stability**: SNAP is an entitlement program that automatically expands when poverty increases, and as such quickly responds to individuals’ financial needs.

Analyzing SNAP’s impact on food security can be difficult—especially in studies that compare SNAP participants to nonparticipants—due to “self-selection” into the program of households with greater unmet food needs. **After controlling for the self-selection effect, studies find that SNAP meaningfully decreases food insecurity.**

- In a month-by-month longitudinal analysis, food security deteriorates in the 6 months prior to participating in SNAP and improves in the months shortly after.
- In a longitudinal study measuring food security when households first enroll in SNAP and six months after using the program, the percentage of food insecure households dropped by 10.6 percent.
- In a similar longitudinal study looking only at households with children, the food insecurity rate dropped by 12.9 percent six months after enrollment.

**Diet Quality and Nutrition Security**

According to the USDA, ‘nutrition security builds on food security, emphasizing the co-existence of food insecurity and diet-related diseases and disparities.’ Diet quality is used as one indicator of nutrition security as no formal metrics exists yet for measuring nutrition security.

**The relationship between SNAP and diet quality is complex.** Research evaluating the effect of SNAP participation on diet quality must adequately control for self-selection of participants into SNAP with unmet food needs, differences in socio-demographic characteristics in comparison populations, and the interaction of food insecurity status, all of which influence diet quality. Further, due to the **benefit inadequacy of SNAP**, the benefits may alleviate some experiences of food insecurity and hunger, but not always improve diet quality or nutrition security.

---

**Diet quality** refers to adherence to a dietary pattern that is consistent with consuming nutrients that promote health and prevent disease. A key method of measuring diet quality is the Healthy Eating Index (HEI) score, which demonstrates how an eating pattern aligns with the Dietary Guidelines for Americans (DGA).

**Nutrition security** includes having access to safe, nutritious, culturally relevant food that aligns with the key recommendations of the Dietary Guidelines for Americans, particularly among racial/ethnic minorities, people with low incomes, and rural and Tribal communities.
Research suggests that SNAP participation may not improve diet quality for individuals with high food security; however, participation is associated with better diet quality among individuals experiencing marginal, low and very low food security. The effect of SNAP on diet quality also is influenced by interactions with race and ethnicity, such that SNAP participation results in greater improvements in diet quality for White people experiencing food insecurity compared to Black or Latine people experiencing food insecurity. The reasons for these differential effects by race and ethnicity may be partially attributed to disparities in access to healthy foods for Black and Latine individuals. More research is needed to understand the link between SNAP and diet quality, and therefore the impact of SNAP participation on nutrition security.

The potential of SNAP to reduce disparities in food and nutrition security among marginalized groups

Systemic racism in the United States drives disproportionate rates of food insecurity among marginalized communities. Decades of harmful, unjust policies, such as housing segregation, discriminatory hiring practices, and voting restrictions have relegated people of color to lower generational wealth. And racial discrimination is also associated with food insecurity, independent of poverty and socioeconomic status, in part due to biased and unfair treatment experienced by Black, Latine, and Indigenous communities. Food security also intersects with other inequalities besides race, including class, gender, immigrant status, and sexuality. Thus, compared to the national average, there are disparities in the prevalence and severity of food insecurity among households with children, households headed by a single parent, Black and Latine-headed households, Indigenous households, noncitizen immigrant households, and households headed by people with disabilities.

Despite the many public health benefits of SNAP, including its ability to lift millions of Black and Latine households out of poverty and deep poverty annually, SNAP falls short on addressing disparities in food and nutrition security. This was made clear when the boost in social safety net programs during the COVID-19 health and economic crisis kept food insecurity rates in the U.S. constant between 2019 and 2020, but disparities in the prevalence and severity of food insecurity persisted among certain marginalized groups.

More robust and targeted measures are needed to improve disparities in food and nutrition security. For example, people who were formerly incarcerated are twice as likely to experience food insecurity as the rest of the population, but incarceration, especially for drug crimes, is biased against Black and Latine people at all stages of the criminal justice system. Policies that correct biases in the justice system and eliminate the SNAP ban on people with previous drug felony convictions would alleviate disparities in access to nutritious foods. For more opportunities to reduce disparities in food and nutrition security in SNAP, see CSPI’s resource on SNAP Access and Utilization.

For more information, please contact the Center for Science in the Public Interest at policy@cspinet.org. Written by Cassie Ramos, Policy Associate
References

15. Gregory C, Deb P. Does Snap Improve Your Health? Elsevier. 2015; 50


39. Testa A, Jackson D. Food Insecurity among Formerly Incarcerated Adults. SAGE Journals: Criminal Justice and Behavior. 2019; 46 (10):