Food is Medicine: Key Facts

The Friedman School of Nutrition Science and Policy at Tufts University is collaborating with Congressional leaders, advocacy partners, and other key stakeholders to advance a bipartisan Food is Medicine Initiative. Our goal is to raise awareness of the tremendous impact of food on virtually all issues facing our country – from health care costs and disparities, to economic competitiveness and military readiness – and provide trusted science on actionable changes.

10 foods are estimated to cause nearly half of all US deaths from heart disease, stroke, and type 2 diabetes each year.

<table>
<thead>
<tr>
<th>Deaths from Eating Too Few</th>
<th>Deaths from Eating Too Much</th>
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<tbody>
<tr>
<td>Nuts/Seeds</td>
<td>Sodium</td>
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<td>59374</td>
<td>66508</td>
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<tr>
<td>Seafood Omega-3’s</td>
<td>Processed Meat</td>
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<td>54626</td>
<td>57766</td>
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<tr>
<td>Vegetables</td>
<td>Sugary Beverages</td>
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<td>53410</td>
<td>51694</td>
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<tr>
<td>Fruits</td>
<td>Unprocessed Red Meat</td>
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<td>52547</td>
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<td>Whole Grains</td>
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<td>41311</td>
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<tr>
<td>Polyunsaturated Fats</td>
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<td>16025</td>
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SNAP is an invaluable anti-poverty tool, but deep disparities in diet quality remain between SNAP participants and the general population.

- **12-19%** fewer American households experience severe food insecurity thanks to SNAP
- **$1400** amount saved on healthcare expenditures per SNAP participant per year
- **51.2%** of households that receive SNAP benefits remain food insecure
- **$1.76** is the average SNAP supplement to the cost of each meal for a family of four
- **65%** of adult Medicaid participants receive SNAP benefits

SNAP participants are two times more likely to die from cardiovascular disease than nonparticipants

SNAP participants are three times more likely to die from diabetes than nonparticipants

Diet-related disease is a leading driver of sky-rocketing healthcare costs.

The health costs of cardiovascular disease are estimated to be **$316 billion/year**, including **$190 billion/year** in direct healthcare costs.

The yearly cost of diabetes in the US is **$327 billion**.

Diet-related disease impedes economic competitiveness and military readiness.

The costs from lost productivity due to cardiovascular disease are estimated to be about **$126 billion/year**.

Active duty forces have seen a **61 percent rise** in obesity since 2002.

1 in 4 adults are too obese to serve in the US military.

Nutrition science is advancing quickly but is significantly underfunded.

- **$1.5 billion per year** Total federal funding for nutrition research in the US
- **$5 billion per year** Candy advertising in the US
- **$50 billion per year** Candy purchases by US consumers
One Initiative: Saving thousands of lives + billions of dollars

The costs of diet-related disease are immense, but fortunately, strategic policies and novel research have the potential to dramatically improve health outcomes and garner tremendous savings.

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Worksite Wellness — investing in health is a smart business decision

Reducing employee health risks such as high glucose and blood pressure by just 1 percent could save employers $83 to $103 per person annually.

Every dollar that employees spend on wellness programs generates about $3.27 in lower medical costs and $2.73 in less absenteeism.

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Nutrition research is advancing quickly, but there’s still so much left to learn. Areas of research that warrant funding include:

The cardiometabolic effects of phenolics, dairy fat, probiotics, fermentation, coffee, tea, cocoa, eggs, specific vegetable and tropical oils, vitamin D, individual fatty acids, diet-microbiome interactions.

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Healthcare — the number one cause of poor health should be the number one priority of the healthcare system

Providing a 20 percent incentive for fruit and vegetable purchases to Medicaid and Medicare beneficiaries is estimated to prevent 1.95 million cardiovascular disease events and to save $40.9 billion in healthcare costs.

Providing free fresh food as a treatment for diabetes yields a more than 40 percent decrease in the risk of death or serious complications.

A broader 20 percent incentive including whole grains, nuts, fish, and plant-based oils would prevent 3.31 million cardiovascular disease events save $102.4 billion in healthcare costs.

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Strengthening the ‘N’ in SNAP

Making nutrition a core SNAP objective would improve the lives of millions of low income families, while lowering health care costs and reducing disparities.

30% fruit and vegetable (F&V) incentive to all SNAP participants is estimated to save...

$6.77 Billion in healthcare costs over a lifetime!

$39.16 Billion: amount of healthcare savings over a lifetime that would be produced by a combined incentive/disincentive program within SNAP

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The Friedman School at Tufts University

The Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy at Tufts University was established in 1981 with the mission of bringing together biomedical, social, political, and behavioral scientists to conduct research, educational, and community-service programs to improve the nutritional health and well-being of populations throughout the world.

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nutrition.tufts.edu/about/public-impact

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Official USDA Food Plans: Cost of Food at Home at Four Levels, U.S. Average, April 2018.


_Caduceus icon by Semmel Zinko for Noun Project, with alterations by Sarah Cronin_