American Society for Nutrition

8,000+ members

Network of leading nutrition scientists around the world Initiatives



- Improve DEIA in nutrition, dietetics, food industries
- Build partnerships (IFT, IUNS, AND, Industry, Government)
- Improve transparency of nutrition science
- Increase funding for nutrition research
- Organize academic, industrial and federal bodies pertinent to nutrition sciences



Food is Medicine AHA PRESIDENTIAL ADVISORY

Dietary Fats and Cardiovascular Disease

A Presidential Advisory From the American Heart Association

Circulation. 2017;136:e1-e23. DOI: 10.1161/CIR.000000000000510 Sacks FM, Lichtenstein AH, Wu JHY, Appel LJ, et al.,

polyunsaturated vegetable oil reduced CVD by ≈30%, similar to the reduction achieved by statin treatment. Prospective observational studies in many populations showed that lower intake of saturated fat coupled



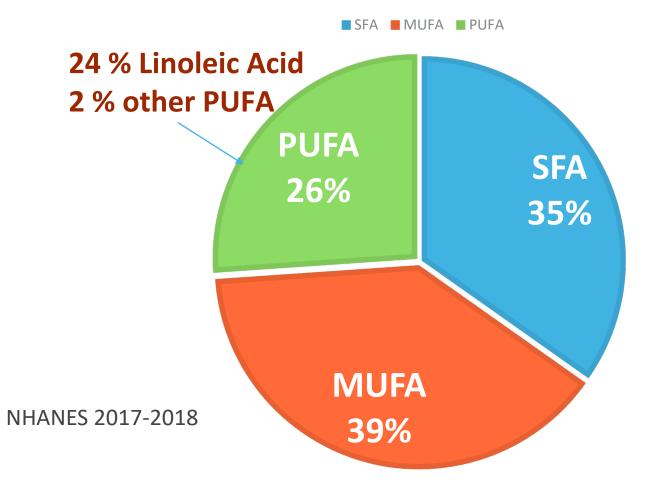
Linoleic Acid Reduces Cholesterol: Protective effects of linoleic acid against dyslipidemia

```
"With vegetable oils this decrease [of cholesterol]
is thought to be largely due to a poly-unsaturated
 fatty acid known as linoleic acid."
                  With vegetable oils this decrease
      is thought to be due largely to a poly-un-
     saturated fatty acid known as linoleic acid.
```

Page et al., (1957) Circulation 15: 97

What Fats Do We Eat?

FATS/OILS (~ 90 G / DAY)



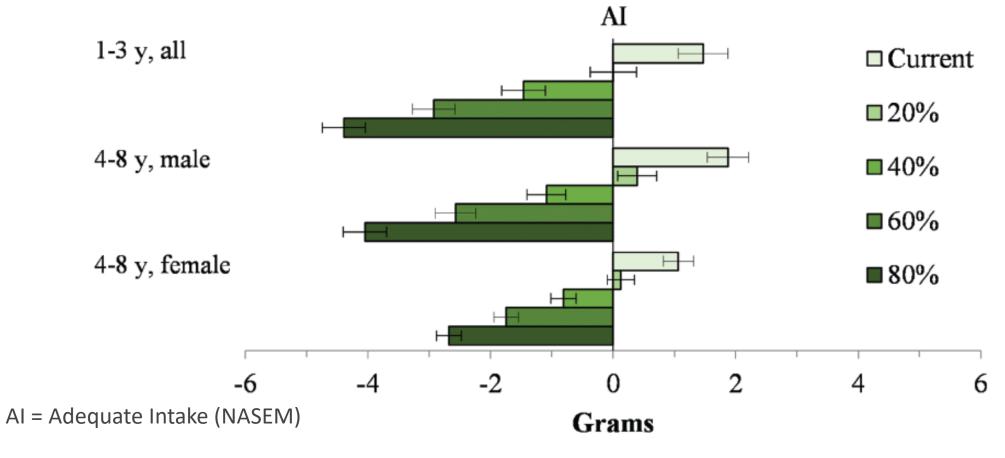
CFAES

The Changing the identity of vegetable oil in U.S.



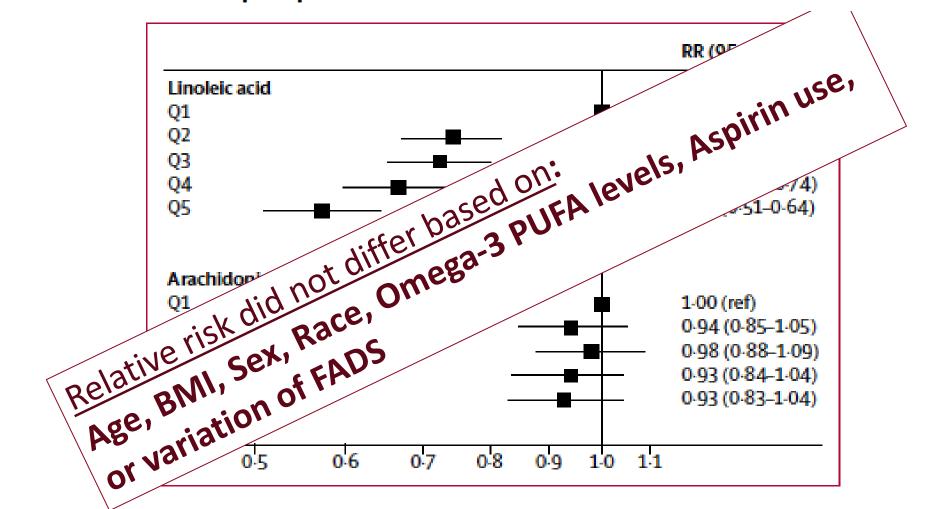
Nutrition Facts Serving Size 1 Tbsp (14g) Servings Per Container about 63	
Amount Per Servis Calories 120	Cal. from fat 120
Total Fat 149 Saturated Fat 1g	% Daily Value* 21% 6%
Trans Fat Og Polyunsaturated 2	lg .
Monounsaturated Cholesterol 0m	11g
Total Carbohy Protein 0g	
Vitamin E 20%	*

Substituting High Monounsaturated Oils in Place of High Polyunsaturated Oils Will Reduce Linoleate Intake



Belury et al., Am J Clin Nutr 2022 (Adult data in Raatz S et al., AJCN 2018)
THE OHIO STATE UNIVERSITY COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

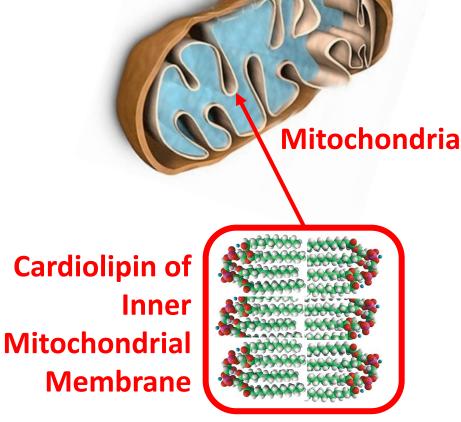
Omega-6 fatty acid biomarkers and incident type 2 diabetes: pooled analysis of individual-level data for 39740 adults from 20 prospective cohort studies Lancet Diabetes Endocrinol 2017 Jason H Y Wu, et al.



CFAES

New Discoveries for an Old Nutrient Linoleic acid Is the Preferred Structural Fat in Mitochondria

- → Increases ATP production
- → Improves Metabolism





Food as Medicine: How Do We Get There?

Investing into Nutrition Research Will Inform:

- Food and Drug Administration (FDA)
 - **✓** Fortification policies
 - ✓ Labeling
- National Academy of Science, Engineering and Medicine (NASEM)
 - **✓** RDAs
- United States Department of Agriculture (USDA)
 - ✓ Crop Subsidies
- Medical Practice