

## *Health Benefits of Mono- and Poly-unsaturated Fats*

Replacing dietary saturated fat and trans-fat is the best strategy for reducing risks of heart disease.

- The substitution of unsaturated fats for saturated ones lowers blood cholesterol.
- Olive oil contains phytochemicals which help protect the body against heart disease.

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## *Health Benefits of Omega-3 Fats*

Beneficial in helping to reduce risks from heart disease.

- Helps prevent blood clots
- Protects against irregular heartbeats
- Lowers blood pressure

Food sources include some vegetable oils, walnuts, flaxseeds, and fatty fish.

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## *Health Benefits of Balanced Fat Intakes*

Balance omega-6 and omega-3 intakes to realize health benefits:

- Eat more fish (2-3 servings/week) and less meat
- Bake, broil or grill the fish
- Functional foods will eventually assist

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## *Recommended Intakes of Lipids*

DRI and Dietary Guidelines recommend:

- 20-35% of total kCal for fat

FDA Daily Values:

- 30% of total kCal for fat
- 10% of total kCal for saturated fat

Daily Value for Cholesterol: 300 mg.

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## *Dietary Guidelines for Fat*

Choose a diet low in saturated fat and cholesterol and moderate in total fat.

- This is a change from previous dietary recommendations for a low-fat dietary intake.
- These recommendations recognize the benefits of unsaturated fats.

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## *Guidelines to Groceries (1)*

Meats and meat alternatives:

- Choose very-lean and lean meats
- Choose meat alternatives such as soy and legumes
- Eat more fish

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## Guidelines to Groceries (2)

- Use fat-free milk and milk products
- Emphasize vegetables, fruits, and grains
- Watch out for invisible fats




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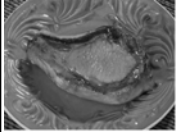


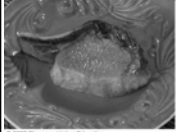


		
Pork chop with fat (340 kcal, 19 g fat, 7 g saturated fat).	Potato with 1 tbs butter and 1 tbs sour cream (350 kcal, 14 g fat, 10 g saturated fat).	Whole milk, 1 c (150 kcal, 8 g fat, 5 g saturated fat).
		
Pork chop with fat trimmed off (230 kcal, 9 g fat, 3 g saturated fat).	Plain potato (200 kcal, <1 g fat, 0 g saturated fat).	Fat-free milk, 1 c (90 kcal, <1 g fat, <1 g saturated fat).

Fig. 5-23, p. 162

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## Guidelines to Groceries (3)

Current guidelines recognize the desirability of consuming good fats:




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## Guidelines to Groceries (4)

Limit foods with hydrogenated fats:

- Avoid trans fats – read food labels
- Watch convenience foods

Limit fatty meats, tropical oils, and whole milk products:

- Read food labels to determine those with less saturated fats and larger quantities of healthy fats such as omega-3

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 <p>Butter</p>	 <p>Margarine (stick)</p>	 <p>Margarine (tub)</p>	 <p>Margarine (liquid)</p>
<p><b>Nutrition Facts</b> Serving size 1 Teaspoon (5g) Serving Per Container 50</p> <p>Amount per serving Calories 100 Calories from Fat 100</p> <p>% Daily Value*</p> <p>Total Fat 10g 20% Saturated Fat 7g 35% Cholesterol 50mg 10% Sodium 50mg 4% Total Carbohydrate 0g 0% Protein 0g</p> <p>*Percent Daily Values are based on a diet of other people's secrets.</p> <p><b>INGREDIENTS:</b> Cream, salt.</p>	<p><b>Nutrition Facts</b> Serving size 1 Teaspoon (5g) Serving Per Container 50</p> <p>Amount per serving Calories 90 Calories from Fat 90</p> <p>% Daily Value*</p> <p>Total Fat 10g 20% Saturated Fat 3g 15% Polyunsaturated Fat 3g Monounsaturated Fat 3g Cholesterol 0mg 0% Sodium 0mg 0% Total Carbohydrate 0g 0% Protein 0g</p> <p>*Percent Daily Values are based on a diet of other people's secrets.</p> <p><b>INGREDIENTS:</b> Vegetable oil (safflower, sunflower, and soybean oils), water, sweet cream buttermilk, salt, vegetable mono- and diglycerides, soy lecithin, citric acid, artificial flavor, vitamin A, colored with beta carotene.</p>	<p><b>Nutrition Facts</b> Serving size 1 Teaspoon (5g) Serving Per Container 50</p> <p>Amount per serving Calories 90 Calories from Fat 90</p> <p>% Daily Value*</p> <p>Total Fat 10g 20% Saturated Fat 2g 10% Polyunsaturated Fat 4.5g Monounsaturated Fat 2.5g Cholesterol 0mg 0% Sodium 0mg 0% Total Carbohydrate 0g 0% Protein 0g</p> <p>*Percent Daily Values are based on a diet of other people's secrets.</p> <p><b>INGREDIENTS:</b> Water, liquid soybean oil (SAFOLIN®), hydrogenated soybean oil, sweet cream buttermilk, pectin, salt, vegetable mono- and diglycerides, soy lecithin, citric acid, artificial flavor, vitamin A, colored with beta carotene.</p>	<p><b>Nutrition Facts</b> Serving size 1 Teaspoon (5g) Serving Per Container 50</p> <p>Amount per serving Calories 60 Calories from Fat 60</p> <p>% Daily Value*</p> <p>Total Fat 10g 20% Saturated Fat 1g 5% Polyunsaturated Fat 4g Monounsaturated Fat 1.5g Cholesterol 0mg 0% Sodium 0mg 0% Total Carbohydrate 0g 0% Protein 0g</p> <p>*Percent Daily Values are based on a diet of other people's secrets.</p> <p><b>INGREDIENTS:</b> Liquid soybean oil, water, sweet cream buttermilk, salt, partially hydrogenated cottonseed oil, vegetable mono- and diglycerides, soy lecithin, citric acid, artificial flavor, vitamin A, colored with beta carotene.</p>

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## Desirable High-Fat Foods

Cook with olive oil

- But realize it's still 9 kCal./gram

Nibble on nuts

- Health benefits, but still high kCal food

Feast on fish

- But beware of mercury (pregnant and lactating women & young children)

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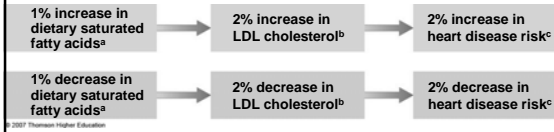
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# High-Fat Foods

Beneficial effects from limiting fatty meats, milk products, and tropical oils:



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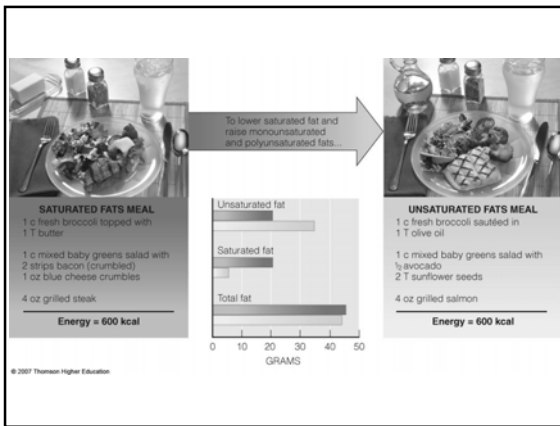
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TABLE H5-1 Major Sources of Various Fatty Acids	
<b>Healthful Fatty Acids</b>	
<b>Monounsaturated</b>	<b>Omega-6 Polyunsaturated</b>
Avocado	Margarine (nonyhydrogenated)
Oils (canola, olive, peanut, sesame)	Oils (corn, cottonseed, safflower, soybean)
Nuts (almonds, cashews, filberts, hazelnuts, macadamia nuts, peanuts, pecans, pistachios)	Nuts (walnuts)
Olives	Mayonnaise
Peanut butter	Salad dressing
Seeds (sesame)	Seeds (pumpkin, sunflower)
<b>Omega-3 Polyunsaturated</b>	
Fatty fish (herring, mackerel, salmon, tuna)	
Flaxseed	
Nuts	

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**Harmful Fatty Acids**

Saturated	Trans
Bacon	Fried foods (hydrogenated shortening)
Butter	Margarine (hydrogenated or partially hydrogenated)
Chocolate	Nondairy creamers
Coconut	Many fast foods
Cream cheese	Shortening
Cream, half-and-half	Commercial baked goods (including doughnuts, cakes, cookies)
Lard	Many snack foods (including microwave popcorn, chips, crackers)
Meat	
Milk and milk products (whole)	
Oils (coconut, palm, palm kernel)	
Shortening	
Sour cream	

NOTE: Keep in mind that foods contain a mixture of fatty acids.

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**TABLE H5-2** Replacing Saturated Fat with Unsaturated Fat

Examples of ways to replace saturated fats with unsaturated fats include sautéing foods in olive oil instead of butter, garnishing salads with sunflower seeds instead of bacon, snacking on mixed nuts instead of potato chips, using avocado instead of cheese on a sandwich, and eating salmon instead of steak. Portion sizes have been adjusted so that each of these foods provides approximately 100 calories. Notice that for a similar number of calories and grams of fat, the first choices offer less saturated fat and more unsaturated fat.

	Total Fat (g)	Saturated Fat (g)	Unsaturated Fat (g)
Olive oil vs. butter	11 vs. 11	2 vs. 7	9 vs. 4
Sunflower seeds vs. bacon	8 vs. 9	1 vs. 3	7 vs. 6
Mixed nuts vs. potato chips	9 vs. 7	1 vs. 2	8 vs. 5
Avocado vs. cheese	10 vs. 8	2 vs. 4	8 vs. 4
Salmon vs. steak	4 vs. 5	1 vs. 2	3 vs. 3
<b>Totals</b>	<b>42 vs. 40</b>	<b>7 vs. 18</b>	<b>35 vs. 22</b>

NOTE: Portion sizes that provide approximately 100 calories: 1 tbs olive oil, 1 tbs butter, 2 tbs dry roasted sunflower seeds, 2 slices cooked bacon, 2 tbs dry roasted mixed nuts, 10 potato chips, 6 slices avocado, 1 slice cheddar cheese, 2 oz salmon, and 1/3 oz steak.

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