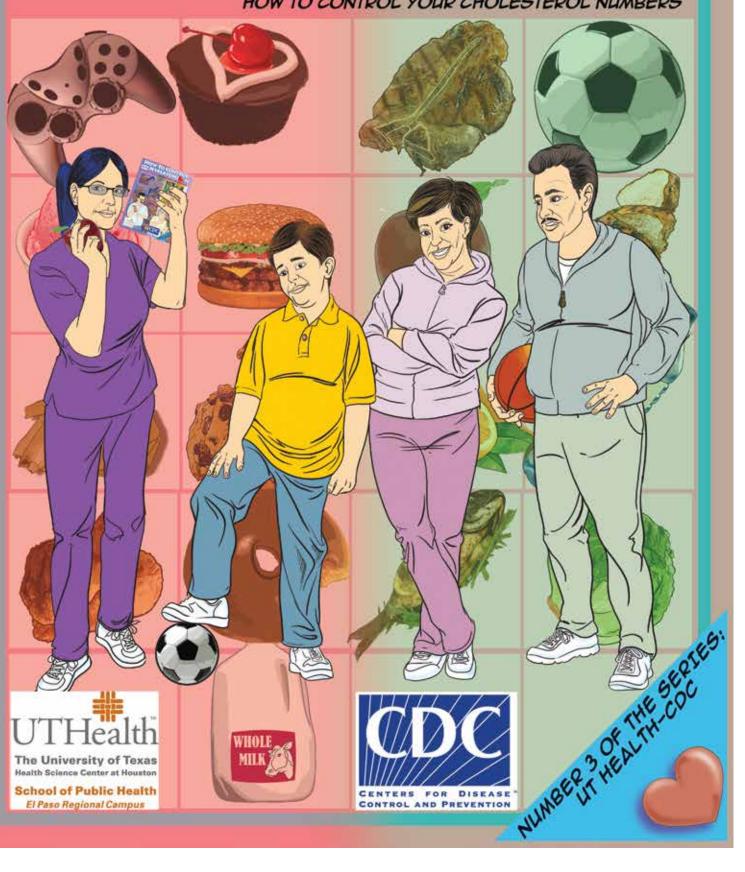


HOW TO CONTROL YOUR CHOLESTEROL NUMBERS



Acknowledgments

Raymundo and his family would like to invite you to read this fotonovela and learn about how to control fat and cholesterol in your diet. This fotonovela can be used by many community health workers and Promotoras de Salud to help people control their cholesterol levels.

We would like to thank the Centers for Disease Control and Prevention project team of: J Nell Brownstein, PhD, Carma Ayala, RN, PhD, and Elena Kuklina, PhD, MD for their leadership and support.

- National Center for Chronic Disease Prevention and Health Promotion.
- Elena Kuklina who made a major contribution to the script.

We would like to acknowledge the members of our UT SPH team and the promotoras de salud from AYUDA who helped in the development and focus groups activities.

Sincerely:

Dr. Héctor Balcázar UT-SPH Principal Investigator Email: Hector.G.Balcazar@uth.tmc.edu

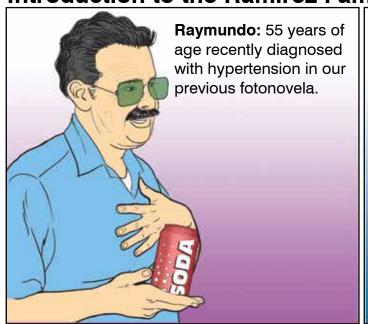
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What you need to do to keep a heart healthy	4
What is the difference between good and bad cholesterol?	6
Knowing your Food	12
Put it into practice	23

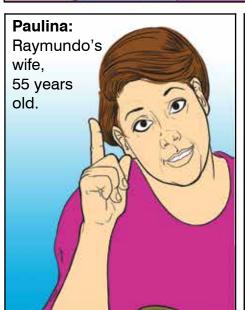
Illustration and design by Salvador Sáenz

For more information about this fotonovela please contact Doctor Balcázar at Hector.G.Balcazar@uth.tmc.edu or 915 747-8507

Introduction to the Ramirez Family and to Olivia, the Promotora

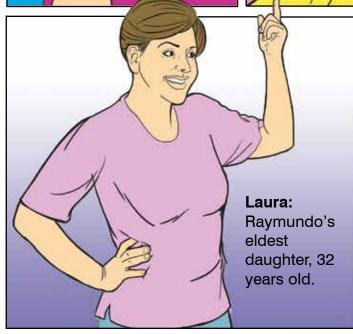


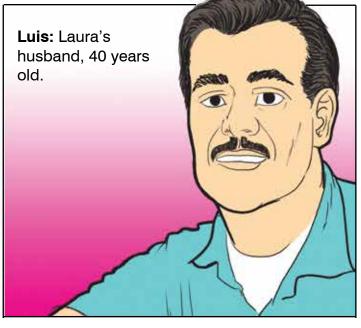












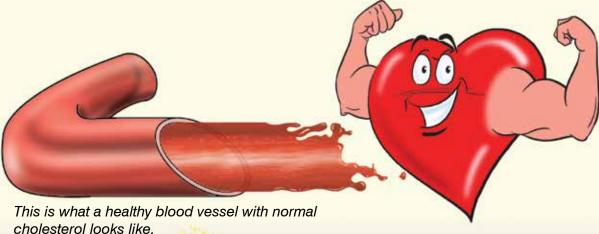






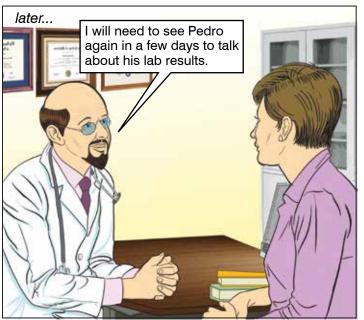
Laura, I wanted to talk with you about your lab test results because it shows that your cholesterol is high. That makes it hard for blood to move through your body.

High blood cholesterol can lead to heart disease, heart attacks, and stroke. You can do things that will help. Losing weight can help bring down cholesterol levels. Eating healthy and being more physically active can help people lose weight and is good for the whole family.



HIGH BLOOD CHOLESTEROL

HEART DISEASE OF ATTRCY



Would you like to meet with the clinic's community health worker (promotora) Olivia? She has been helping adults and kids with high cholesterol and will be glad to help you.







TO KEEP A HEART HEALTHY











Pedro's lab results show that his total blood cholesterol is 206, but it should be less than 170.

His "bad" cholesterol is 148, but it should be less than 110. His "good" cholesterol is 54, which is fine. His "good" cholesterol should not be less than 45.

	DESIRABLE (BORDERLINE	UNDESIRABLE
HDL Cholesterol	children (9-12) more than 45mg/dl	40-45 mg/dl	less than 40 mg/dl
	adults more than 40 mg/dl		less than 40 mg/dl
LDL Cholesterol	children (9-12) less than 110 mg/dl	110-129 _{mg/dl}	more than 130mg/dl
	adults less than 100mg/dl		

WHAT IS THE DIFFERENCE BETWEEN GOOD AND BAD CHOLESTEROL?

200 +

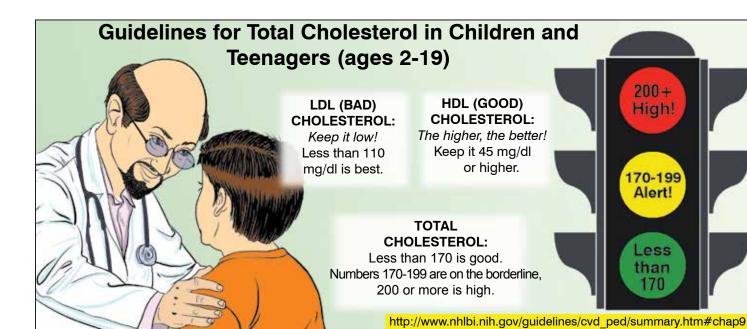
High!

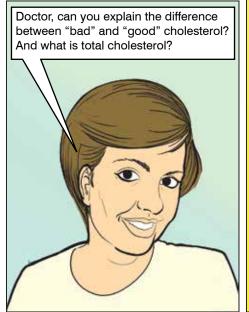
Alert!

ess

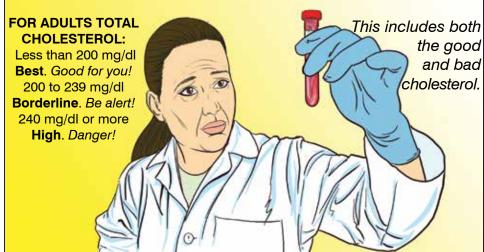
than

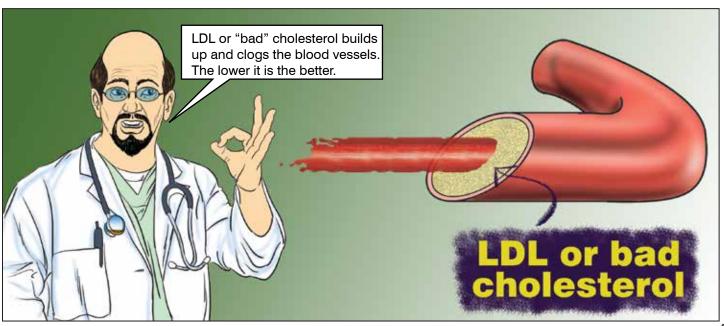
170











<u>လ</u>

HDL or "good" cholesterol helps keep the blood vessels from getting clogged. The higher it is the better.



Laura, your lab results show that your total cholesterol is 245, but it should be less than 200. Your "bad" cholesterol is 168, but it should be less than 100. Your "good" cholesterol is 55, so I am not worried about it.



Laura and Pedro can lower their cholesterol, but they need to work together to eat healthy foods, be more active, and get to a healthier weight. It is good that Laura does not smoke because smoking also raises total cholesterol levels.

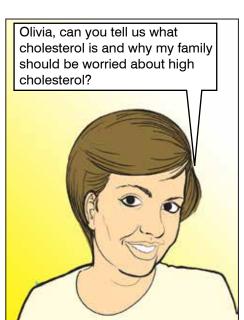


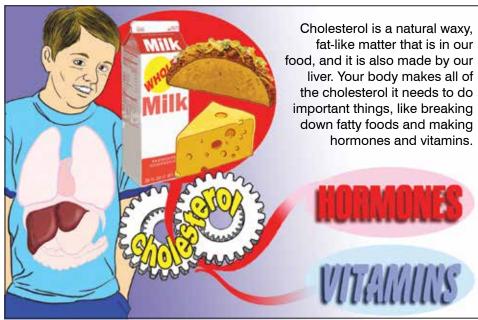
Olivia, can help you to make your diet healthy and get enough physical activity also she has some cooking tips and recipes that will help you and your family along the









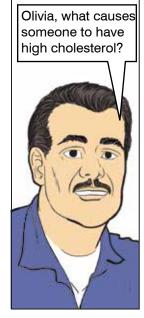


But too much cholesterol from some foods, like fatty meat, organ meats like liver and kidney, cheese, and dairy desserts like ice cream may raise the amount of cholesterol in the blood.

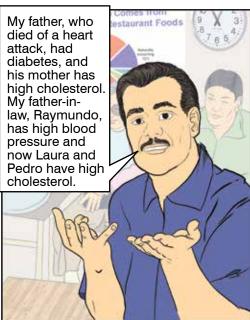




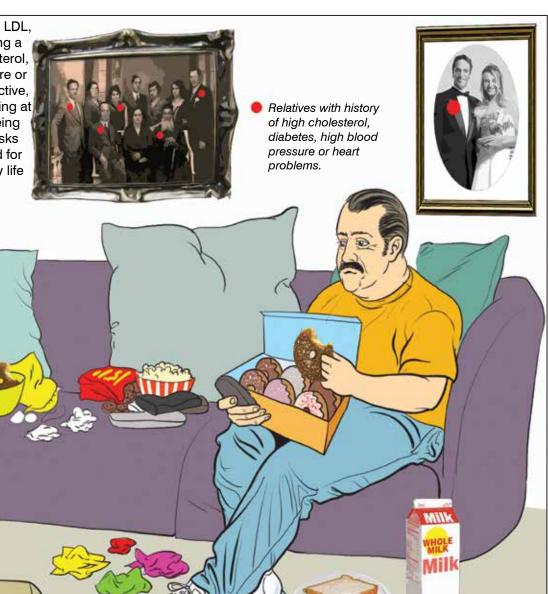
One egg yolk a day does not increase the risk of heart attack in healthy people.

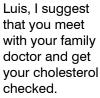




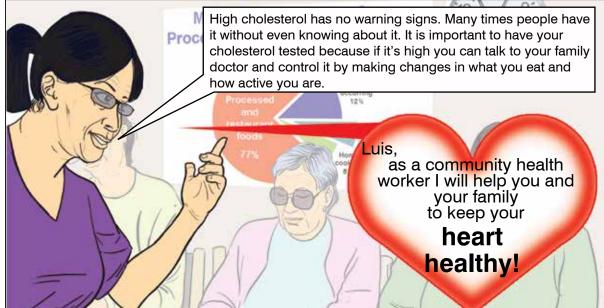


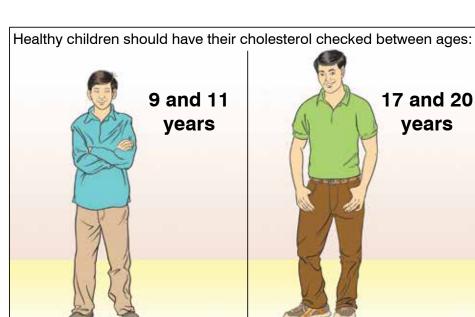






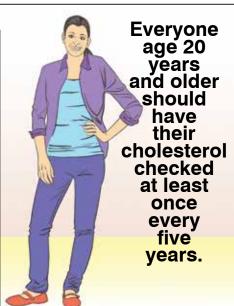


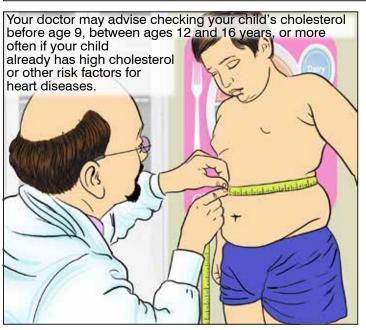




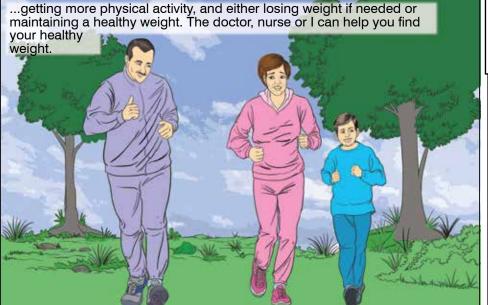


17 and 20 years





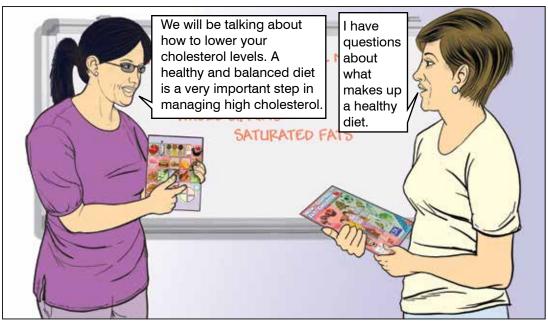




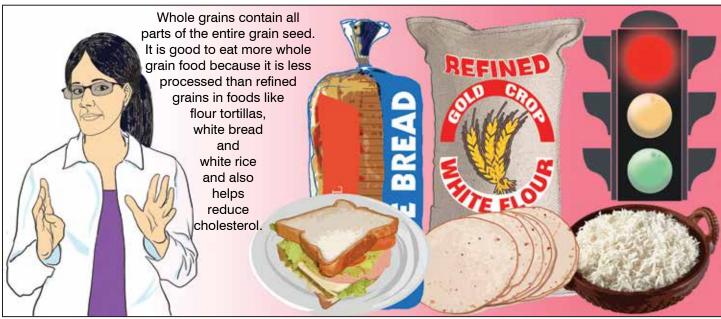
Please come to one of my monthly group classes to learn more about how to manage cholesterol and live a healthy life. Everyone will welcome you.

















Activity Sheet: Write in the white circle an "R" if it is a food high in cholesterol or a "G" if it is a food low in cholesterol.

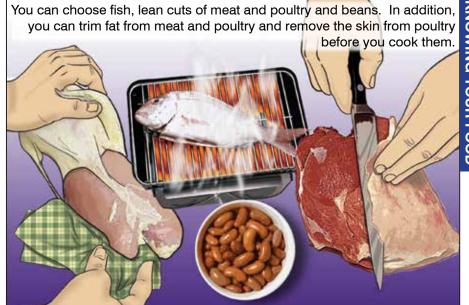
We need to learn to identify foods high and low in cholesterol, because the food we choose daily defines in a major way our health and the health of our family.



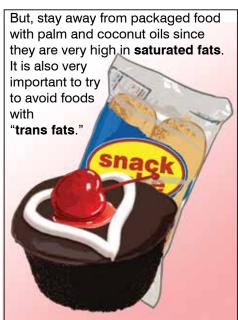


I thought foods from animals are high in protein. If these foods are also high in cholesterol what kinds of foods with protein should we be eating?

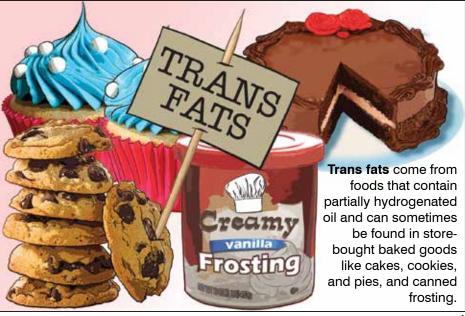






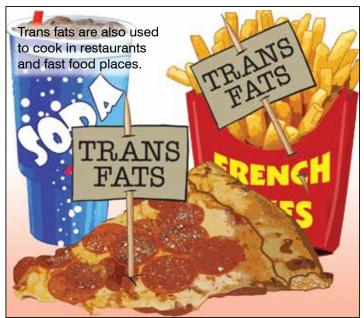




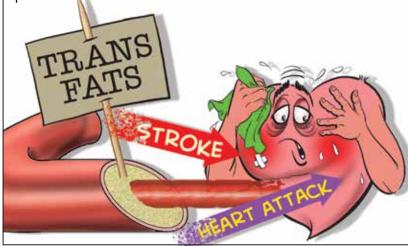


They are also in stick margarines, some fried foods, and may be in snack foods like chips and popcorn.

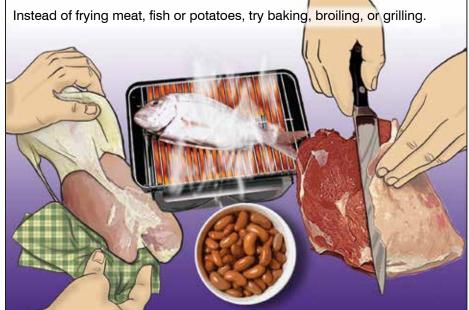


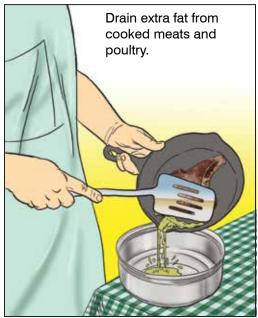


Trans fats can raise your bad cholesterol levels in your blood and damage your blood vessels, which can lead to heart attack or stroke. You should try to eat foods with **trans fats** as little as possible.



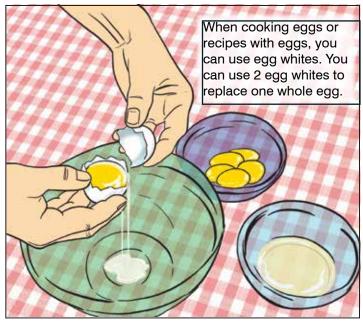


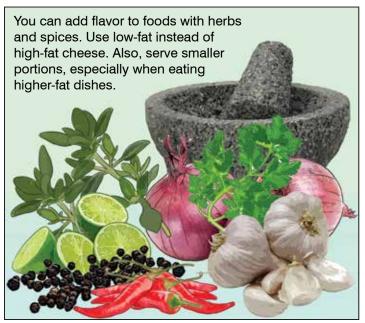




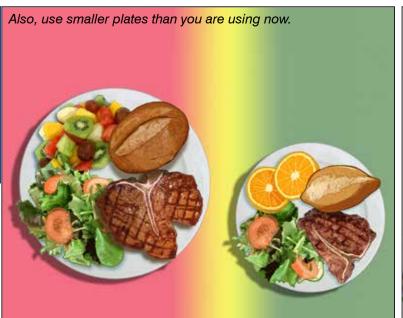


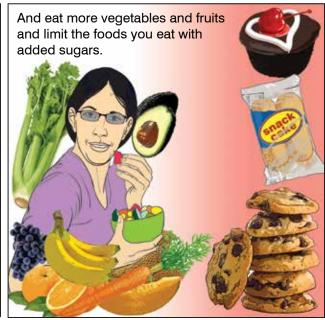




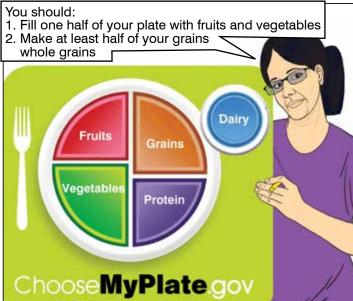


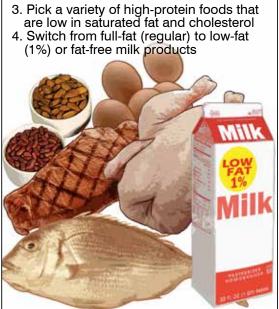














Next week, I invite you all to attend my Low-Fat Cooking class. We will be making a low fat chicken and rice (arroz con pollo) recipe. I hope you will all be able to come.









Today we're focusing on items to eat less of as shown on the **Nutrition Facts label**. The items to eat less of include: **calories**, **total fat**, **saturated fat**, **trans fat**, **cholesterol**, **sodium and sugars**.

Nutrition Facts

Serving Size ½ block Servings Per Container 2

Amount Per Serving Calories 190 Calories from Fat 70

Amount/Serving	%DV*	Amount/Serving %DV*
Total Fat 8g	12%	Total Carbohydrate 26g 9%
Saturated Fat 4g	20%	Dietary Fiber 1g 4%
Trans Fat 0g		Sugars 1g
Cholesterol Omg	0%	Protein 5g
Sodium 820mg	34%	
Vitamin A 2%		Vitamin C 2%
Calcium 2%	•	Iron 6%

Check out our fotonovela "How to Control your Hypertension: Learning to Control Your Sodium Intake," which explains how we have used the Nutrition Facts labels to teach people how to control sodium in their diet.

Start by looking at the "Serving Size" printed right under "Nutrition Facts." The Nutrition Facts label tells us the numbers of servings there are in the package or can. It tells us the amount of calories, saturated fats, trans fats, cholesterol, sodium and sugar for one serving.

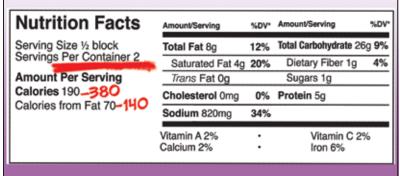
Nutrition Facts

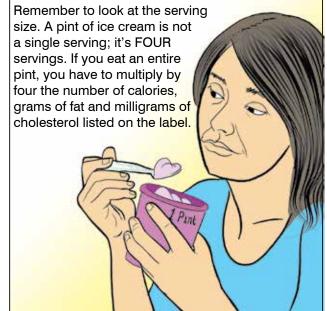
Serving Size ½ block Servings Per Container 2

Amount Per Serving Calories 190 Calories from Fat 70

Amount/Serving	%DV*	Amount/Serving %DV*
Total Fat 8g	12%	Total Carbohydrate 26g 9%
Saturated Fat 4g	20%	Dietary Fiber 1g 4%
Trans Fat 0g		Sugars 1g
Cholesterol 0mg	0%	Protein 5g
Sodium 820mg	34%	
Vitamin A 2% Calcium 2%	:	Vitamin C 2% Iron 6%

Many packages and cans have more than one serving. Check the serving size and how many servings you are actually eating. If you eat double the serving size, you will also eat double the amount of calories, saturated fat, cholesterol, sodium and sugar.





Activity Sheet: Fill in the blank sheet comparing Nutrition Facts labels per serving.

Nutrition Fac Serving Size 1/4 cup (58g) Servings Per Container Abou	
Amount Per Serving Calories 50 Calories from	For Co
Calories 50 Calories from % Daily \	
Total Fat 3.5g	5%
Saturated Fat 2g	10%
Trans Fat 0g	
Cholesterol 15mg	5%
Sodium 260mg	11%
Total Carbohydrate 4g	1%
Dietary Fiber 0g	0%
Sugars 0g	
Protein 2g	4%

Nutrition Serving Size 1/2 oz	1 Facts	9
Serving Size 1/2 oz Servings Per Conta		
Amount Per Serving		d
Calories 80 Calo	ries from Fat 4	5
	% Daily Valu	
Total Fat 5g		%
Saturated Fat 1	1.5g a	%
Trans Fat 0g	2	
Cholesterol 20m	ng 6	%
Sodium 140mg	6	%
Total Carbohyd	rate 0g 0	%
Dietary Fiber 0	g 0	%
Sugars 0g		
	lot a significant sou f protein.	rce

1. Which label has the highest cholesterol?____

How much?

2. Which label has the least cholesterol?

How much?

3. Which food has the most saturated fat?

How much?

4. Which label has the highest amount of total fat?

How much?

5. How much total fat is 1 serving of the food in label # 1?



Amount/serving %DV*

Total Fat 5g

Nutrition Facts

Fat Cal 45

*Percent Daily Values (DV) are based on a 2 000 calorie diet

Servings 1 can

Calories 150

Serving Size 2/3 cup (156g)

Nutrition Fa Serving Size 1 Tbsp (13g) Servings Per Container abo	
Amount Per Serving	
Calories 90 Calories from	Fat 90
% Daily !	Value*
Total Fat 10g	15%
Saturated Fat 1.5g	8%
Trans Fat Og	
Polyunsaturated Fat 6g	
Monounsaturated Fat 2.5	ig
Cholesterol 5mg	2%
Sodium 90mg	4%
Total Carbohydrate 0g	0%
Dietary Fiber Og	0%
Amount/serving %DV*	0%

8% Sodium 550mg 23%

Saturated Fat 3.5g 17% Total Carb 10g 3%

Vitamin A 0% Vitamin C 10% Calcium 0%

Not a significant source of fibers and sugars

Cholest 3500mg 1170% Protein 16g

		.6 3.5 g.
		(4.) Label 4,
		(3.) Label 5,
,		(2.) Label 3,
bш	3 200	(1.) Label 5,
		:SY9W8nA

Look for: Total Fat, Saturated Fat, Trans Fat and Cholesterol: Under Total Fat, you'll find Saturated Fat and Trans Fat, then Cholesterol listed in bold. These all raise your cholesterol levels.

Compare brands to pick foods that have the least saturated fat and cholesterol and 0 grams trans fat, if you can.

Nutrition Facts

Serving Size ½ block Servings Per Container 2

Amount Per Serving Calories 190 Calories from Fat 70

Amount/Serving	%DV*	Amount/Serving	%DV*
Total Fat 8g	12%	Total Carbohydrate 26g	9%
Saturated Fat 4g	20%	Dietary Fiber 1g	4%
Trans Fat 0g		Sugars 1g	
Cholesterol 0mg	0%	Protein 5g	
Sodium 820mg	34%		
Vitamin A 2%		Vitamin C 2%	,

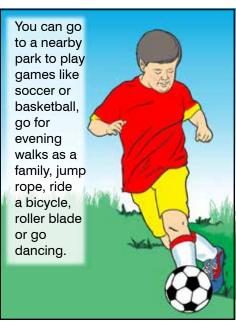
Vitamin A 2% Calcium 2% Vitamin C 2% Iron 6%

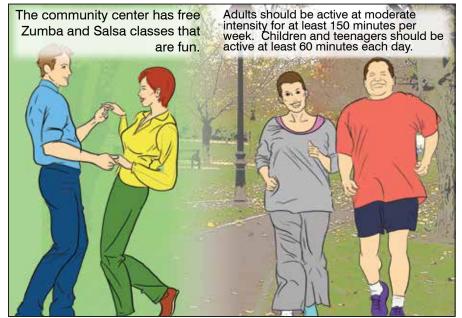


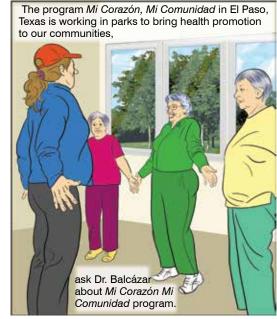
Keep in mind that fat-free doesn't mean a food is calorie-free. Some lowerfat items have the same number of calories as the full-fat item because they may have more added sugar. You also need to eat foods lower in sodium.















Thank you Olivia.... You'll see. We're going to do exactly what you told us. You won't be disappointed.

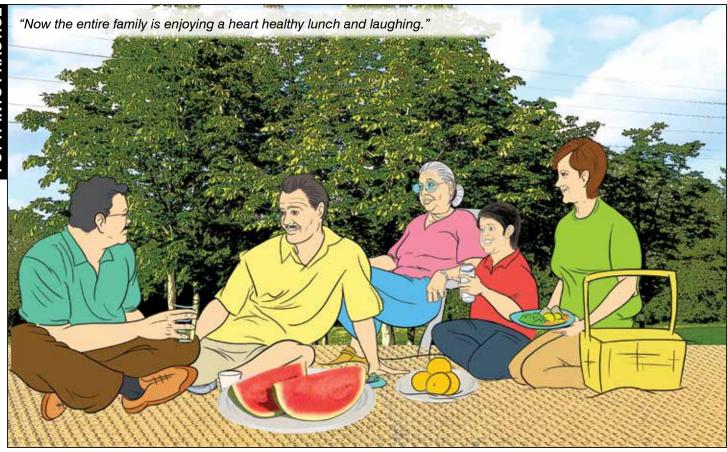


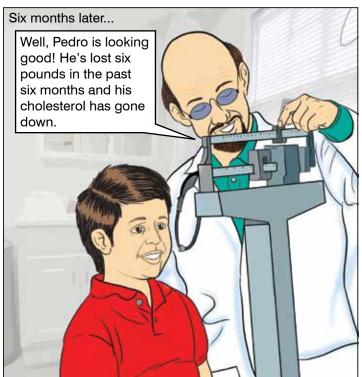


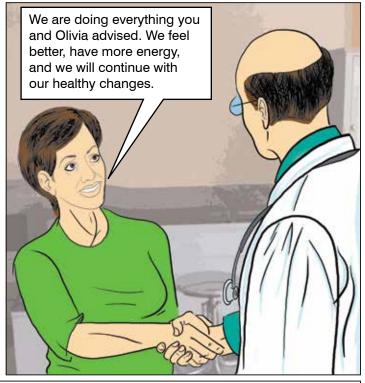
Doña Fela, everything is going great! We've been eating healthier foods, eating smaller portions, and going to the park several days a week to walk laps or play soccer. And we are having fun at the Zumba classes at the community Center.











These fotonovelas were done through a CDC-ASPH grant program. We hope you and your family learn through the fotonovelas how to have a healthier lifestyle.

Fall 2013





