

Unit V – Wellness, Fitness and First Aid

Chapter 3 - You Are What You Eat

Section 1 – You Are What You Eat



What You Will Learn to Do

Evaluate how diet impacts life



Objectives

- Explain how calories consumed versus calories used affects body weight
- 2. Identify daily required food and portions
- 3. Identify sources and benefits of fiber in diet
- 4. Describe the importance of water
- 5. Describe the possible effects of a diet high in fat and cholesterol
- 6. Explain why salt, sugar and caffeine should be used in moderation



Nutrients -

Substances found in food that allow the body to function properly

Fats -

Nutrients made up of fatty acids that are insoluble in water and provide energy to the body

Deficient -

Having too little of something, such as a nutrient in the body



Calories -

The amount of energy it takes to raise the temperature of one kilogram of water one Celsius; a measurement of energy

Metabolism -

The chemical process by which the body produces energy and maintains vital functions

Vitamins -

Nutrients that occur naturally in plant and animal tissue and are required for proper function of the body



Minerals -

Natural chemical elements of the earth used by the body to supply necessary nutrition

Carbohydrates -

One of the various neutral organic compounds composed of carbon, hydrogen and oxygen (including starches and sugars) produced by plants and used to provide energy necessary for growth and other functions



Protein -

Nutrients that are made of amino acids and that maintain body tissues and supply energy to the body

Osteoporosis -

A condition characterized by a calcium deficiency in the bone mass; the body pulls calcium from the bones, causing them to lose their density and possibly leading to fractures



Fiber - Course food made mostly of

carbohydrates, such as bran or broccoli,

that serves to stimulate and aid the

movement of food through the

digestive tract

Diabetes - A disease in which the body is unable

to use sugars properly

Stimulant - Nutrients that occur naturally in plant

and animal tissue and are required for

proper function of the body



Introduction

A healthy lifestyle includes good nutrition. Your body will not function properly without the right nutrients.

A balanced diet helps maintain proper weight and lower risk of disease.





Introduction

Eating on the run too often can affect your nutrition and weight. You may consume too many fats and too few vegetables and fruits, leaving you deficient in nutrients.

Eating balanced meals, even on the run:

- contributes to proper weight
- provides energy for physical activity
- supplies nutrients for good health.





Introduction

Although too many fats can be bad for you, your body needs a certain amount of fat from the foods you eat.

Many necessary vitamins are fat-soluble only; meaning that without fat, these vitamins cannot be absorbed by the body.



You must eat to fuel your body. The more active you are, the more fuel you need. Even remaining very still, your body uses calories for basic body functions. You do not have control over these functions.

For basic functions, some people use more calories, and some use less. Those who use more are said to have a high metabolism.



Your body uses calories in everything you do. Unlike your basic functions, you can control how many calories you voluntarily use.



- You use more calories walking than watching TV.
- You use more calories walking fast than walking slowly.

The more effort you put in, the more calories you burn.



When your body uses the same amount of calories as you eat daily, you weight remains the same.

If you eat more calories than your body uses, you gain weight.

If you eat less calories than your body uses, you lose weight.

It's a balance between calories eaten and calories used.



Karen has gained 10 pounds in the past year, mainly because she is making some poor food choices and skipping regular exercise.

Compare her lunch with her friend Andrea's choice:





<u>Karen</u>	<u>Andrea</u>
¼ Lb. Plain double Hamburger	Salad with Grilled Chicken
Mayonnaise French Fries	Light Italian Dressing
Large Chocolate Shake	Small Soda

















Most people need only 2000-3000 calories per day. Karen had 75% of hers in just one meal.

Karen	Calories	Andrea	Calories	
Hamburger (1/4 pounder)	540	Salad with grilled chicken	200	
Mayonnaise	100	Lite dressing	50	
French Fries	360			
Lrg Chocolate shake	540	Small soda	150	
Total	1540	Total	400	





If she didn't want a salad, Karen could have still chosen a lighter meal similar to her original choices.

Original Choice	Calories
Hamburger (1/4 pounder)	540
Mayonnaise	100
French Fries	360
Large Chocolate shake	540
Total	1540

New Choice	Calories		
2 Ounce Hamburger	275		
Lettuce & Tomato	10		
Ketchup & Mustard	23		
Regular Size French Fries	220		
Small Chocolate shake	330		
Total	858		





Calories of Some Common Foods						
Tomato (medium)	25	Whole Milk (cup)	150	Egg (large)	80	
Green Pepper (medium)	20	Wheat Bread (slice)	65	Ice Cream (cup)	270	
Cheese Pizza (slice)	290	Potato (medium)	45	Apple (medium)	80	



If Karen really wants to lose weight, she should have a salad, work to reduce calorie intake and get more exercise. (Tennis burns three times as many calories as watching TV.)

"Eat sensibly. Exercise.

Lose weight."







The Importance of a Proper Diet to Your Health

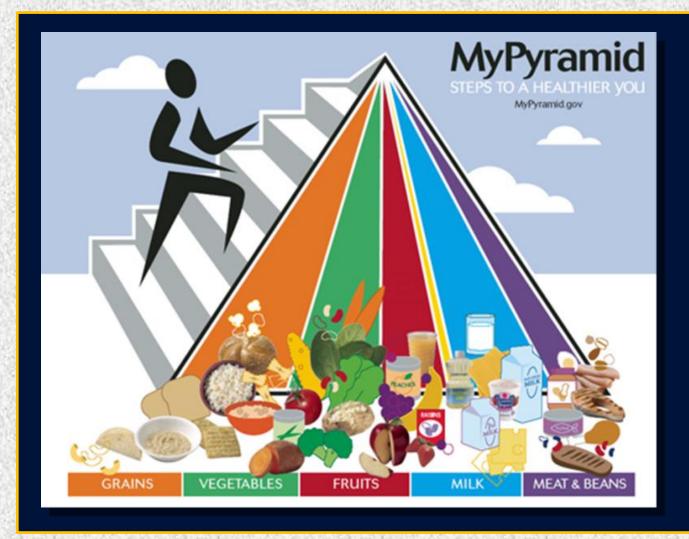
What you eat to get calories is as important as the amount you eat. If you eat like Karen, you give your body too much fat, cholesterol, salt and sugar – which causes health problems to start when you are young.



At your next physical, ask the doctor about your cholesterol, blood pressure and blood sugars... you may be surprised.







The Food Guide **Pyramid** indicates daily servings of 6 food groups to get the proper nutrients for your body.



If you follow the guidelines, you will get the vitamins and minerals the body needs; and enough carbohydrates, protein, and fat for energy.

If not, you increase your risk of disease. For example, lack of calcium can lead to osteoporosis.



Your body also needs fiber to aid digestion and prevent cholesterol, fats and toxic minerals from entering your blood stream.

It also helps control diabetes by balancing blood sugar levels.



You find fiber in:

- Raw or lightly cooked vegetables
- Fresh fruit, nuts and beans
- Whole wheat or bran breads









Water is the final nutrient vital to keeping you alive. The body is more than 65 % water. Water lost must be replaced.

Water:

- - Aids digestion Regulates temperature
- Carries vitamins and minerals through the body
- Is important for the removal of waste





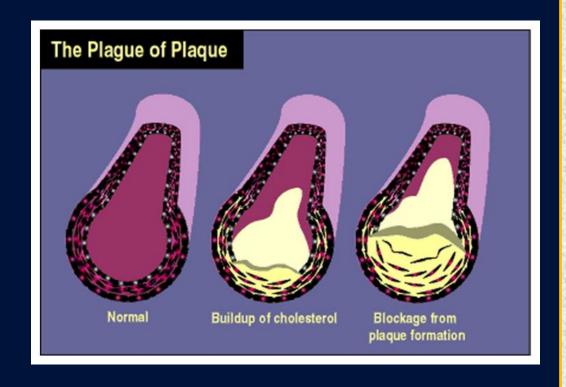
Water is the final nutrient vital to keeping you alive. The body is more than <u>65</u> % water. Water lost must be replaced.

Drinking <u>five to six glasses a day</u> is recommended – except on days when you exercise – then you should drink more!



Your body needs fat, but too much is harmful.

It forms plaque in artery walls leading to high blood pressure and an increased risk of heart disease.





Too much salt forces the body to retain unnecessary water and may contribute to high blood pressure.

Many foods, especially prepackaged and restaurant foods, already have added salt – so don't add more!





Sugary foods like candy and soda supply "empty calories" and few, if any, nutrients.

Avoid them while dieting, and do not eat them as a replacement for nutritious foods. Many fruits and vegetables contain sugar, but they also contain nutrients.







Limit your intake of coffee, tea and sodas that contain caffeine, a stimulant.

Caffeine can temporarily reduce drowsiness but can:

- Upset your stomach
- Make you irritable
- Give you diarrhea





Conclusion

Your body needs food for energy. The amount needed depends on how active you are, and how many calories your body uses for its basic functions.

You know you are getting the right amount when you maintain your ideal weight.



Conclusion

Food supplies you with energy along with the nutrients to operate properly and lower the risk of <u>disease</u>.

Eating a healthy, balanced diet and exercising regularly increases your chances of a long, strong, and disease-free life.



Questions?

