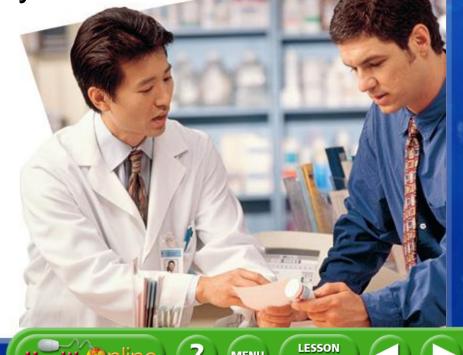


What You'll Learn

1. List and explain factors that influence the effects a drug will have on a person.

2. Discuss the ways that drugs are administered to the body.

- 3. Identify the difference between drug misuse and drug abuse.
- 4. Identify information that appears on a prescription and on OTC drug labels.





What You'll Learn

- **5.** List guidelines for the safe use of prescription and OTC drugs.
- 6. Discuss the role of the FDA in regulating OTC drugs, prescription drugs, and herbal supplements.

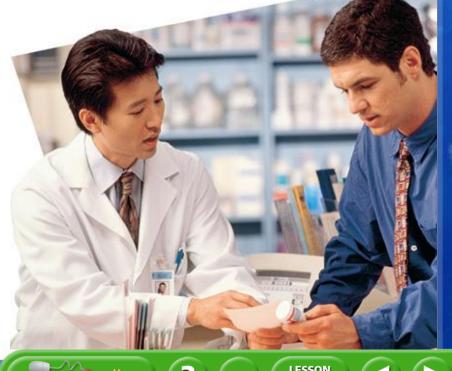




Key Terms

- drug
- drug misuse
- drug abuse
- dose
- prescription
- brand-name drug
- generic-name drug
- over-the-counter (OTC) drug

- tamper-resistant package
- side effect















- A drug is a substance other than food that changes the way the body or mind functions.
 - People use drugs in responsible and irresponsible ways.
 - Responsible drug use is the correct use of legal drugs to promote health and well-being.













- Drug misuse is the incorrect use of a prescription or OTC drug.
- Drug abuse is the intentional use of a drug without medical or health reasons.
 - Both legal and illegal drugs can be abused.
 - Drug misuse and abuse can destroy both health and relationships.













- By mouth
 - The most common way of taking a drug is by swallowing it.
 - A drug in the form of a pill, capsule, or liquid may be swallowed.
 - After being swallowed, a drug travels to the stomach and small intestine and is absorbed into the bloodstream.













- By injection
 - Some drugs are injected using a syringe and a needle.
 - A drug that is injected must be dissolved in liquid.
 - The drug goes directly under the skin into a muscle or blood vessel, causing immediate results.













- By inhalation
 - Some drugs are inhaled through the nose or mouth.
 - Drugs that are inhaled produce effects very quickly by entering the bloodstream through the lungs.
 - Snorting is sniffing drugs through the nose so that they can be absorbed through the mucous membranes of the nasal passages.













- By absorption
 - A drug that is absorbed enters the bloodstream through the skin or mucous membranes.
 - A skin patch is a patch worn on the body that contains a drug that is absorbed through the skin.
 - A suppository is a wax-coated form of a drug that is inserted into the rectum.









- By absorption
 - Buccal absorption is the absorption of a drug between the cheek and gum.
 - Sublingual absorption is the absorption of a drug when it is placed under the tongue.











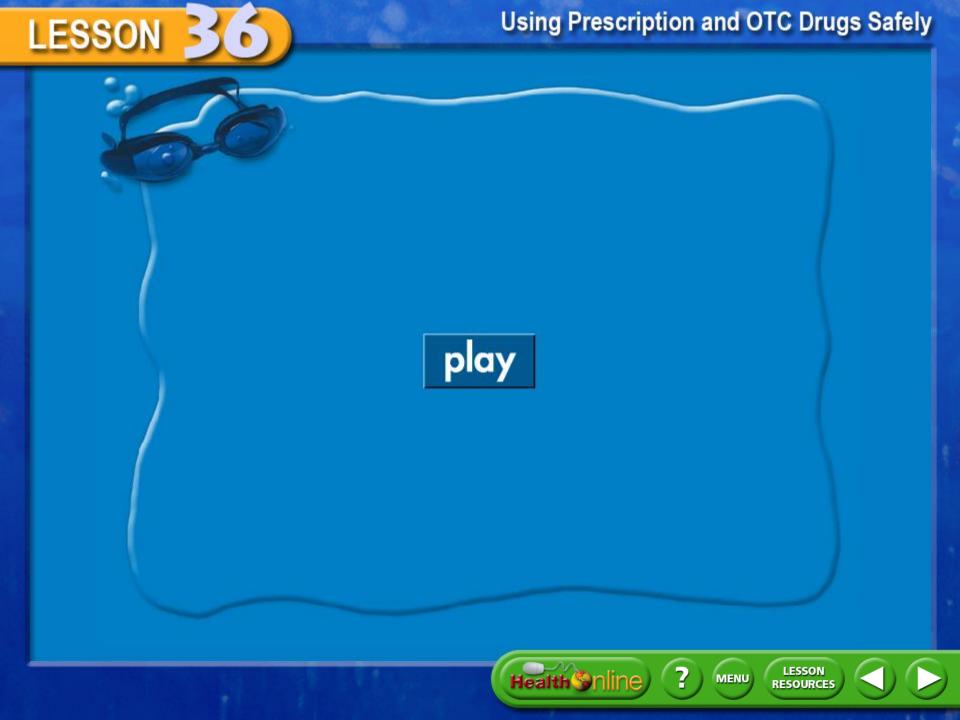


- By implantation
 - Some drugs are implanted, or placed, under the skin where they can be released into the bloodstream.
 - Other factors also determine the effects of a drug.
 - A dose is the amount of drug that is taken at one time.
 - The larger the dose, the greater the effect of the drug on the user.











Prescription Drugs

- A drug that is used to treat, prevent, or diagnose illness is a medicine.
- A prescription is a written order from a licensed health professional.
 - A prescription drug is a medicine that fights specific illnesses and infections and can be obtained only with a prescription.













Legal matters

 Obtaining or using prescription drugs without a prescription is illegal.

- Licensed pharmacists are allied health professionals who dispense medications that are prescribed by physicians.
- A pharmacy is a place where prescription drugs legally are dispensed.

















- Brand-name v. generic
- A brand-name drug is a drug with a registered name or trademark given to it by a pharmaceutical company.
- A generic-name drug is a drug that contains the same active ingredients as a brand-name drug.
 - Generic and brand names of a particular drug usually have therapeutical equivalence, which means two drugs are chemically the same and produce the same medical effects.











- Guidelines for the safe use of prescription drugs
 - It is important to follow guidelines when using a prescription drug.
 - Contact your physician if the drug does not seem to be working or if you are experiencing new or unexpected symptoms.
 - Keep all prescription drugs out of the reach of children.
 - Never take prescription drugs that appear to have been tampered with, are discolored, or have a suspicious odor.









- Guidelines for the safe use of prescription drugs
 - Do not stop taking a prescription drug if you start to feel better; follow the instructions on the label.
 - Never take prescription drugs that have been prescribed for another person.















Why do you think it is dangerous to take prescription drugs that were prescribed for someone else?















 There are many different kinds of over-the-counter drugs, including aspirin, vitamins, and cold medicines.















- An over-the-counter drug (OTC) is a drug that can be purchased without a prescription in stores such as grocery stores and drugstores.
 - Indication for use
 - An indication for use is a symptom or a condition for which the OTC drug should be used.
 - A contraindication for use is a symptom or a condition for which the OTC drug should not be used.













Guidelines for Safe Use of OTC Drugs

- There are ways to be safe when taking an OTC drug.
 - Obtain permission from your parents or guardian to take an OTC drug.
 - Do not purchase an OTC drug if the tamperresistant packaging is broken.
 - A tamper-resistant package is a package that is sealed to assure the buyer that a package has not been opened previously.













Guidelines for Safe Use of OTC Drugs

- Carefully follow the directions for use of the OTC drug.
- Stop using the OTC drug and notify a physician if you have unwanted side effects.
- A side effect is an unwanted body change that is not related to the main purpose of a drug.













Guidelines for Safe Use of OTC Drugs

- Do not take more than one OTC drug at a time without telling a pharmacist or physician.
- Do not take an OTC drug after the expiration date as the effectiveness of a drug may change with time.
- Do not participate in activities that put you at risk if you are taking an OTC drug that may cause drowsiness.















- Dietary supplements are nutrients that are not a part of food and that may come in the form of pills, capsules, liquids, or powders.
- When prescribed by a health professional, dietary supplements may be helpful, but sometimes they can be dangerous.













The Risks of Herbal Supplements

 Herbal supplements are chemicals from plants that contain nutrients and are taken in addition to or in place of foods in one's diet.

Safety issues

 Manufacturers of herbal supplements, including vitamins and minerals, do not have to provide tests that show they are safe and effective before their products are sold to consumers.













The Risks of Herbal Supplements

Ephedra

- Ephedra is an herbal supplement known for its stimulating effect.
- Ephedra provides energy and increased metabolism.
- The effects of ephedra include changes in blood pressure, headaches, chest pain, heart attack, stroke, and death.
- The FDA banned the distribution of ephedra in 2004.









The Risks of Herbal Supplements

Kava

- Kava is an ingredient in plants from South Pacific islands.
- Kava, which is promoted for relaxation, is sold as a product that is supposed to relieve stress, anxiety, and tension.
- There appears to be evidence that kava causes liver diseases, such as hepatitis, cirrhosis, and liver failure.













Study Guide

1. Match the following terms and definitions.

- **E** suppository
- **C** sublingual absorption
- A therapeutical equivalence
- **B** dietary supplements
- **D** herbal supplements

- **A.** description of two drugs that are chemically the same and produce the same medical effects
- **B.** nutrients that are not part of food and that may come in the form of pills, liquids, or powders
- **C.** the absorption of a drug when it is placed under the tongue
- **D.** chemicals from plants that contain nutrients and are taken in addition to or in place of foods in one's diet
- **E.** a wax-coated form of a drug that is inserted into the rectum

















Study Guide

2. Identify the following statements as true or false.

false

Manufacturers of herbal supplements have to provide tests that show they are safe and effective before their products are sold to consumers.

true

Obtaining or using prescription drugs without a prescription is illegal.

false

A drug that is used to treat, prevent, or diagnose illness is a dietary supplement.















Study Guide

3. Ephedra is an herbal supplement that recently was banned by the FDA. Identify the positive and negative effects of ephedra.

The positive effects of ephedra include energy and increased metabolism.

The negative effects of ephedra include changes in blood pressure, headaches, chest pain, heart attack, stroke, and death.



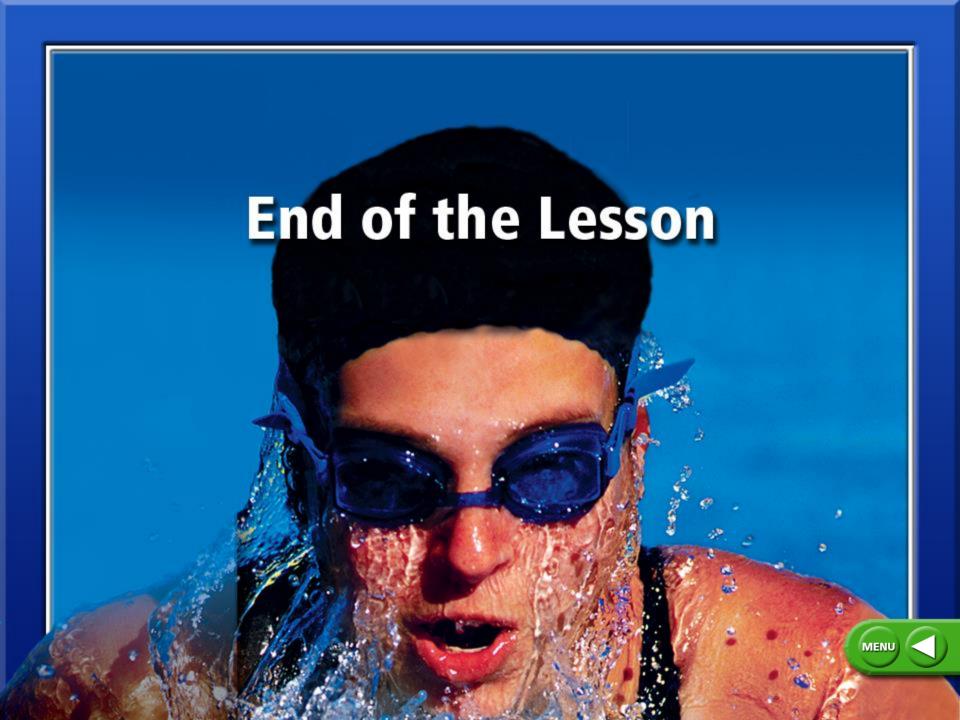














Lesson Resources



healthmh.com

healthmh.com/study_guide

User Help

To navigate within this *Interactive Chalkboard* product:

- Click the **Forward** button to go to the next slide.
- Click the **Previous** button to return to the previous slide.
- Click the **Lesson Resources** button to go to the Lesson Resources slide where you can access resources, such as transparencies, that are available for the lesson.
 - Click the **Menu** button to close the lesson presentation and return to the Main Menu. If you opened the lesson presentation directly without using the Main Menu, this will exit the presentation. You also may press the **Escape** key [Esc] to exit and return to the Main Menu.
 - Click the **Help** button to access this screen.
- Click the **Health Online** Button to access the Web page associated with the particular lesson you are working with.
 - Click the **Speaker** button to hear the vocabulary term and definition when available.