

Nitroglycerin

- Taken by patients with history of chest pain of cardiac origin
- Helps dilate coronary vessels
- Contraindications

Emergency Care, 13e Daniel Limmer | Michael F. O'Keefe

 Low blood pressure or taking medications for erectile dysfunction (Viagra, Levitra, Cialis, or similar)

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- Side effect
 - Dropping blood pressure

Epinephrine Auto-Injectors

- Prescribed and used for patients with severe allergic reactions classified as anaphylaxis
- Vasoconstrictor
 - Relaxes smooth muscles and airway passages
- Side effects
 - Increased heart rate and blood pressure

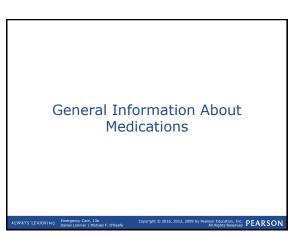
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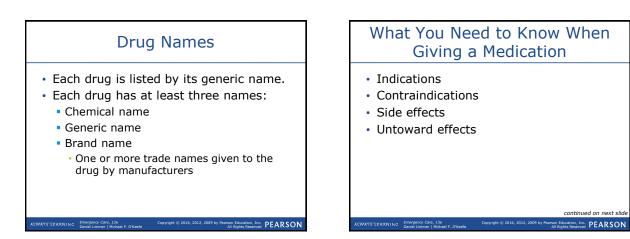
Other Drugs That May Sometimes Be Administered

- Naloxone
 - Antidote for a patient who is unconscious and in respiratory failure after taking a narcotic
 - Does not work if patient has not had a narcotic
- "Force protection medications"
 Atropine auto-injector to treat responders in the event of an attack

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What You Need to Know When Giving a Medication

- Form of the medication
 - Compressed powders or tablets
 - Liquids
 - Gels
 - Suspensions
 - Fine powder
 - Gases
 - Sublingual sprays

Medication Safety and Clinical Judgment

- Administering or assisting with medications is a serious responsibility.
- Know the medication.
- Use good judgment.

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Medication Authorization

- Off-line medical direction
 - Do not speak to physician.
 - Use "standing orders."

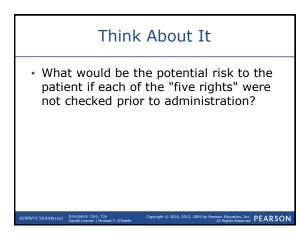
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- On-line medical direction
 - Speak directly to physician.
 - Listen to order, then repeat order back.
 - Ask for clarification if necessary.

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The Five Rights

- 1. Do I have the right patient?
- 2. Is it the right time to administer this medication?
- 3. Is this the right medication?
- 4. Is this the right dose?
- 5. Am I giving this medication by the right route of administration?



Routes of Administration

<u>Oral</u> - swallowed

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- <u>Sublingual</u> dissolved under the tongue
- <u>Inhaled</u> breathed into lungs, usually as tiny aerosol particles, such as from an inhaler, or as a gas, such as oxygen
- Intranasal sprayed into the nostrils
- · Intravenous injected into vein

<u>Intramuscular</u> - injected into a muscle <u>Subcutaneous</u> - injected under the skin <u>Intraosseous</u> - injected into the bone marrow cavity <u>Endotracheal</u> - sprayed directly into a tube inserted into the trachea

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Age- and Weight-Related Considerations

- Pharmacodynamics
 - Study of effects of medications on body
 - What effect will medication have?
 - How will this medication affect my patient specifically?
 - Patient-specific factors change how medication works

Reassessment and Documentation

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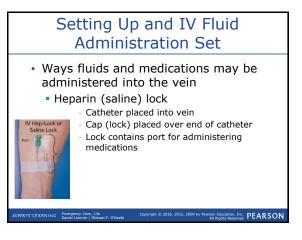
- After administering medication, reassess patient
- Clearly document medications administered





Herbal Agent	Sometimes Used For
Gingko or gingko biloba	Dementia, poor circulation to the legs, ringing in the ears
St. John's wort	Depression
Echinacea	Prevention and treatment of the common cold
Garlic	High cholesterol
Ginger root	Nausea and vomiting
Saw palmetto	Swollen prostate
Hawthorn leaf or flower	Heart failure
Evening primrose oil	Premenstrual syndrome
Feverfew leaf	Migraine prevention
Kava kava	Anxiety
Valerian root	Insomnia





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Setting Up and IV Fluid Administration Set

- Traditional IV bag
 - Hangs above patient
 Constantly flows fluids and medications into patient

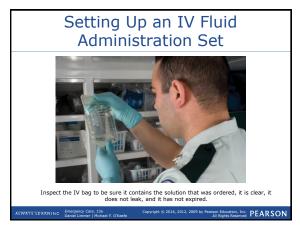


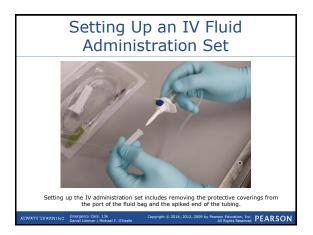
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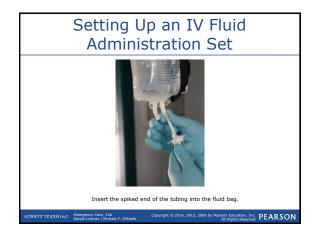
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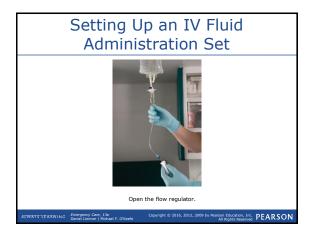
Setting Up and IV Fluid Administration Set

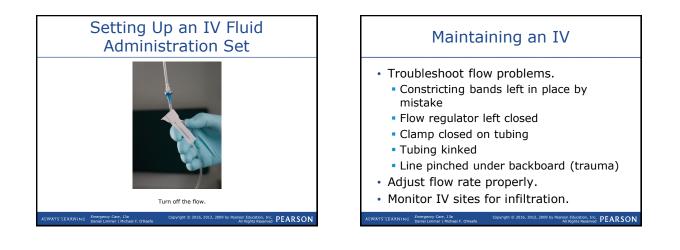
- Clear plastic tubing connecting fluid bag to needle or catheter
- Three important parts
 - Drip chamber
 - Flow regulator
 - Drug or needle port
- Extension set makes it easier to carry or disrobe patient without pulling out the IV.

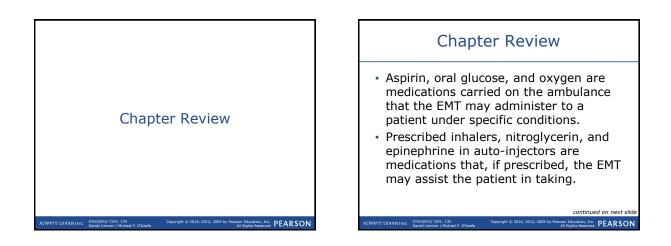


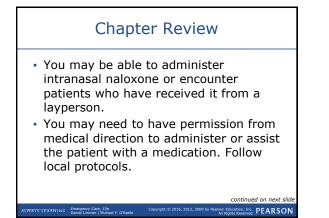












Chapter Review

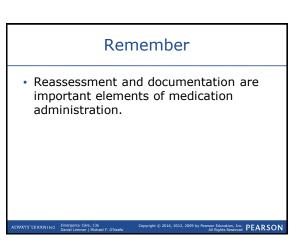
• There is a wide variety of medications that a patient may be taking. You will try to find out what medications a patient is taking when you take the SAMPLE history. These drugs may be identified by a variety of generic and trade names.

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Questions to Consider

Should I administer a medication?

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- How can I get more information about a drug?
- What are the necessary steps that must occur after medication administration?

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Critical Thinking

• A patient is complaining of chest pain. Here's some nitroglycerin," says a family member. "Give him that." What do you do?

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