

Module 6: Roadside Assistance
Topic 1 Content: First Aid Steps: Secondary Procedures

Administering First Aid



Here is a list of the types of emergencies you may experience:

- Open wounds or cuts;
- Burns;
- Poisoning;
- Muscle, bone, or joint injuries;
- Breathing emergencies;
- Cardiac emergencies;
- Fainting;
- Head, neck, or back injuries;
- Weather-related illnesses.

In order to help a person who may be a victim of any of these emergencies, you will need to learn the secondary first-aid procedures.

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Open Wounds

Open Wounds

Abrasion	Laceration
<ul style="list-style-type: none">• Shallow break in skin• Caused by scrape• Little or no bleeding	<ul style="list-style-type: none">• Cut caused by sharp object or forceful blow from blunt object
	

Open wounds are categorized into four types.

Abrasions are shallow breaks in the skin. This is usually caused by scrapes. Generally, there is very little to no bleeding involved.

A laceration is also known as a cut. Lacerations can occur from sharp objects or a forceful blow from a blunt object.

A puncture is the most likely to become infected because there is little to no bleeding and it is a deeper wound than an abrasion. A puncture is the result of a pointed object penetrating the body in and out of the same small wound. Because the wound is so deep, there may be a chance of internal bleeding.

An avulsion is a partial or complete separation of the body part. Generally, this occurs with the appendages such as fingers and toes, but it can happen anywhere on the body. In many cases, the body part can be re-attached, so the piece should be placed in ice or ice water and kept with the victim.

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Care of Open Wounds

Care of Open Wounds

- **PROTECT YOURSELF = WEAR GLOVES.**
- Stop the bleeding.
- Cover the wound with a clean cloth, preferably sterile gauze.
- Apply direct pressure against the wound.



The first thing you should do for first aid on a wound is protect yourself. Put a barrier, such as latex gloves, between your skin and the blood from the victim. Blood-borne pathogens may be present. Next, stop the bleeding. Cover the wound with a clean cloth, preferably sterile gauze, and apply direct pressure on the wound. It may hurt the victim a bit, but this is the best way to stop the bleeding.

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Care of Open Wounds: Minor and Major Wounds

Care of Open Wounds

Minor wound	Major wound
<ul style="list-style-type: none">• Wash it with soap and water.• Rinse for 5 minutes.• Cover with triple-antibiotic ointment and cover with clean sterile cloth.	<ul style="list-style-type: none">• Continue to apply direct pressure firmly to stop bleeding.• Cover with cloth.• Tie it directly over wound.

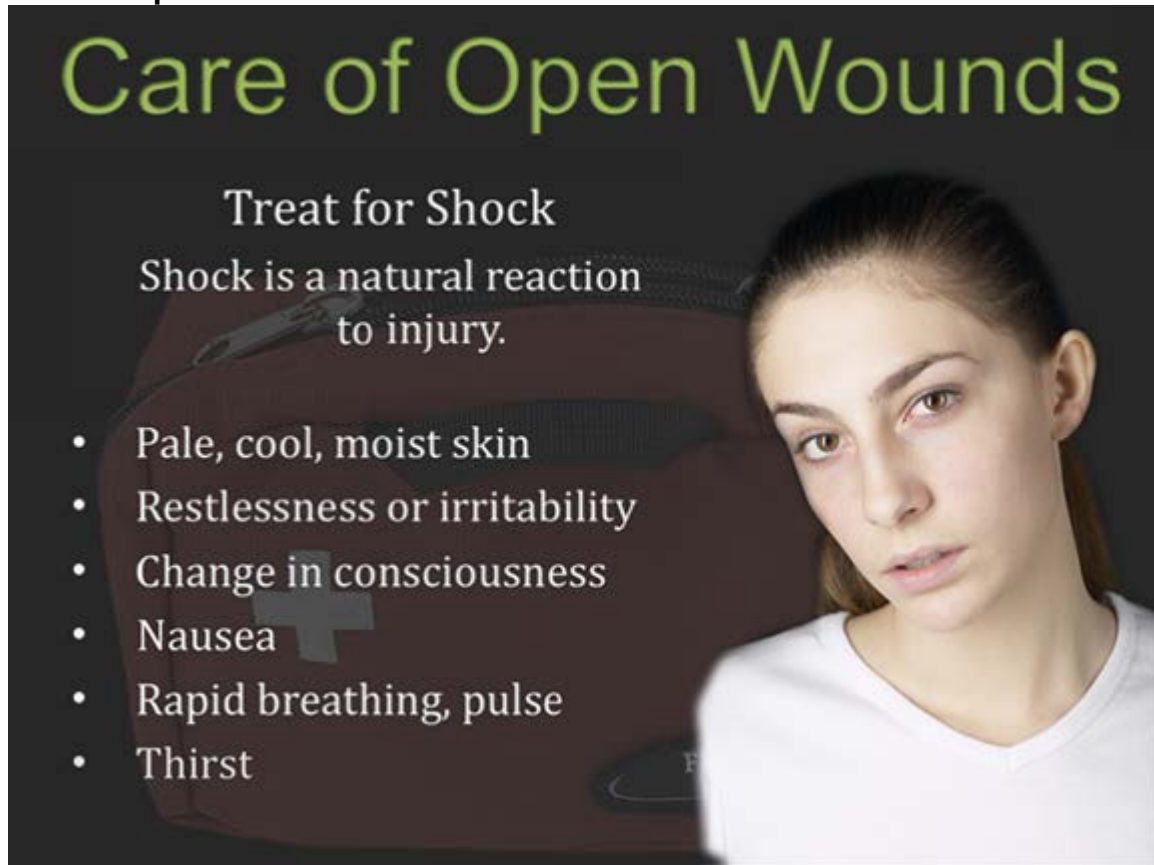


If the wound is minor or small, help the victim wash it with soap and water, then rinse the wound for about five minutes. Cover the wound with a triple-antibiotic ointment and a clean sterile cloth or adhesive bandage.

If the wound is severe or major, continue to apply direct pressure, then wrap a cloth around it and tie it directly over the wound. Seek medical help.

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Care of Open Wounds: Shock



Care of Open Wounds

Treat for Shock

Shock is a natural reaction to injury.

- Pale, cool, moist skin
- Restlessness or irritability
- Change in consciousness
- Nausea
- Rapid breathing, pulse
- Thirst

Once the bleeding has stopped, monitor the victim and treat for shock. Shock is a natural bodily response to injury. How do you know if someone is in shock? Some symptoms are pale, cool, moist skin; restlessness and irritability; a change in consciousness; nausea; rapid breathing and pulse; and/or thirst.

As you continue to treat the victim for shock, monitor the victim's ABCs and keep the person warm or cool depending on the situation. If there is no head, neck, or back injury; or broken bones, then assist the victim in lying down and elevating the feet above the head.

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Care of Open Wounds: Get Help

Care of Open Wounds

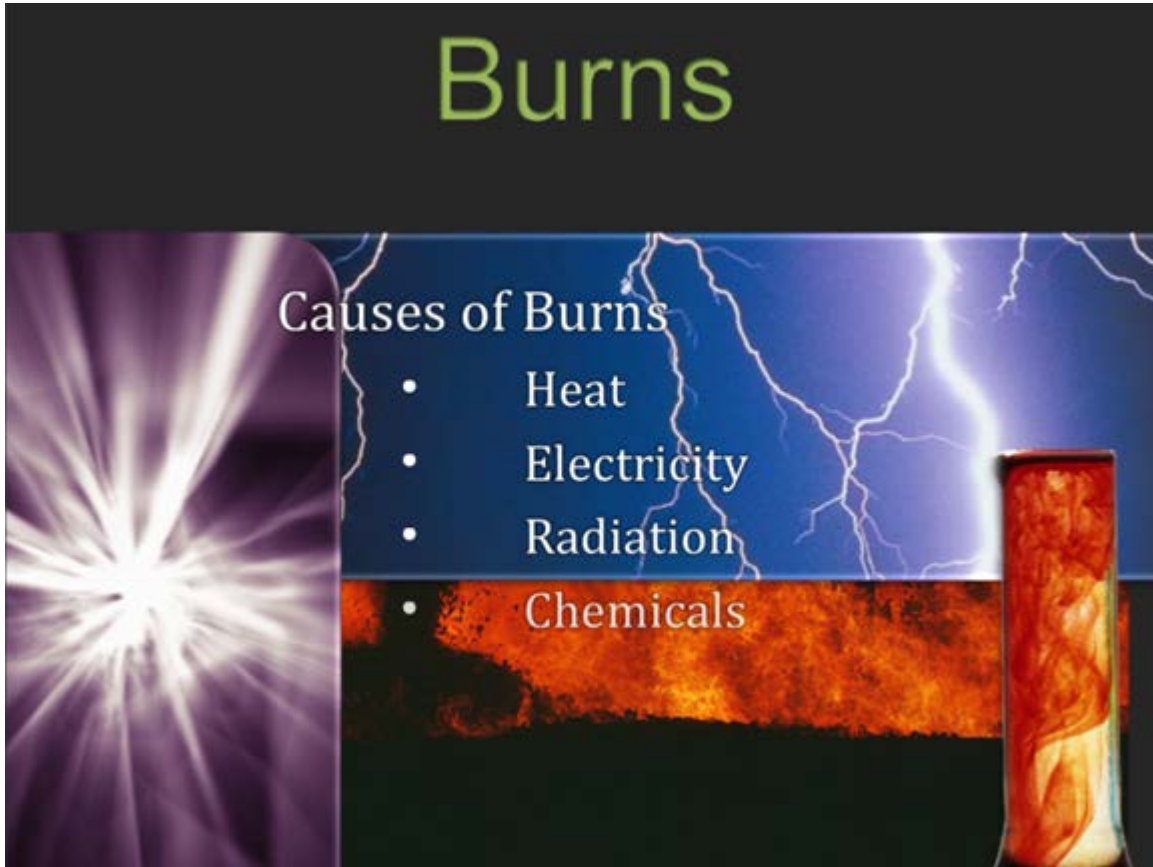
Get Help

- Ensure that someone has called EMS.
- If you are by yourself, once the victim is stable, leave and get help.

A photograph of a paramedic in a dark uniform standing next to a red stretcher. The stretcher has a large white cross on its side. The paramedic is wearing a blue backpack and has a red bag on the stretcher. The background is dark.

Get help. Make sure someone has summoned 911. If you are alone, stabilize the victim, and leave the victim to get help.

Burns



There are four causes of burns: heat, electricity, radiation, and chemicals.

First-Degree Burns

Severity of Burns

First Degree

- Top layer of skin damaged
- Appears red
- Example: sunburn
- Healing takes place within 5 to 6 days



Burns are classified into three degrees. First degree is the least severe. First-degree burns are fairly superficial, which means the top layer of skin is damaged and appears red. An example of this is a minor sunburn where the skin merely turns red. It normally heals within five to six days.

Second-Degree Burns

Severity of Burns

Second Degree

- Encompasses the top several layers of skin
- Blisters form
- Skin may appear blotchy
- Healing can take up to 3 or 4 weeks



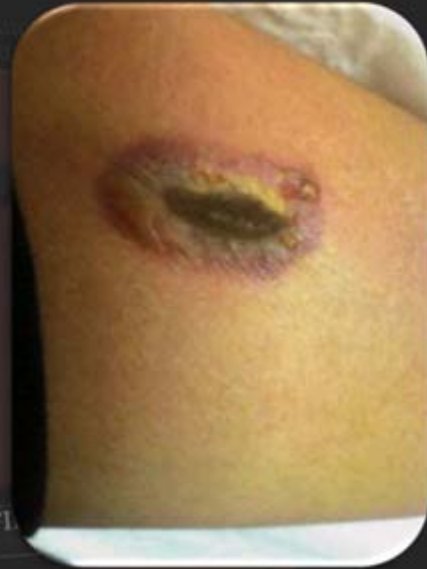
Second-degree burns encompass the top several layers of skin. Blisters form, and the skin appears blotchy. You can also get second-degree burns from the sun. Second-degree burns take a little longer to heal than first degree, up to three or four weeks.

Third-Degree Burns

Severity of Burns

Third Degree

- Beyond the layers of skin and into muscle, nerve, fat, and bone tissues
- Appearance is black or brown



Third-degree burns are the most severe. These burns go beyond the skin into other body tissues and nerves. The burn is charred and looks brown or black.

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Care of Heat and Electrical Burns

Care of Burn Wounds

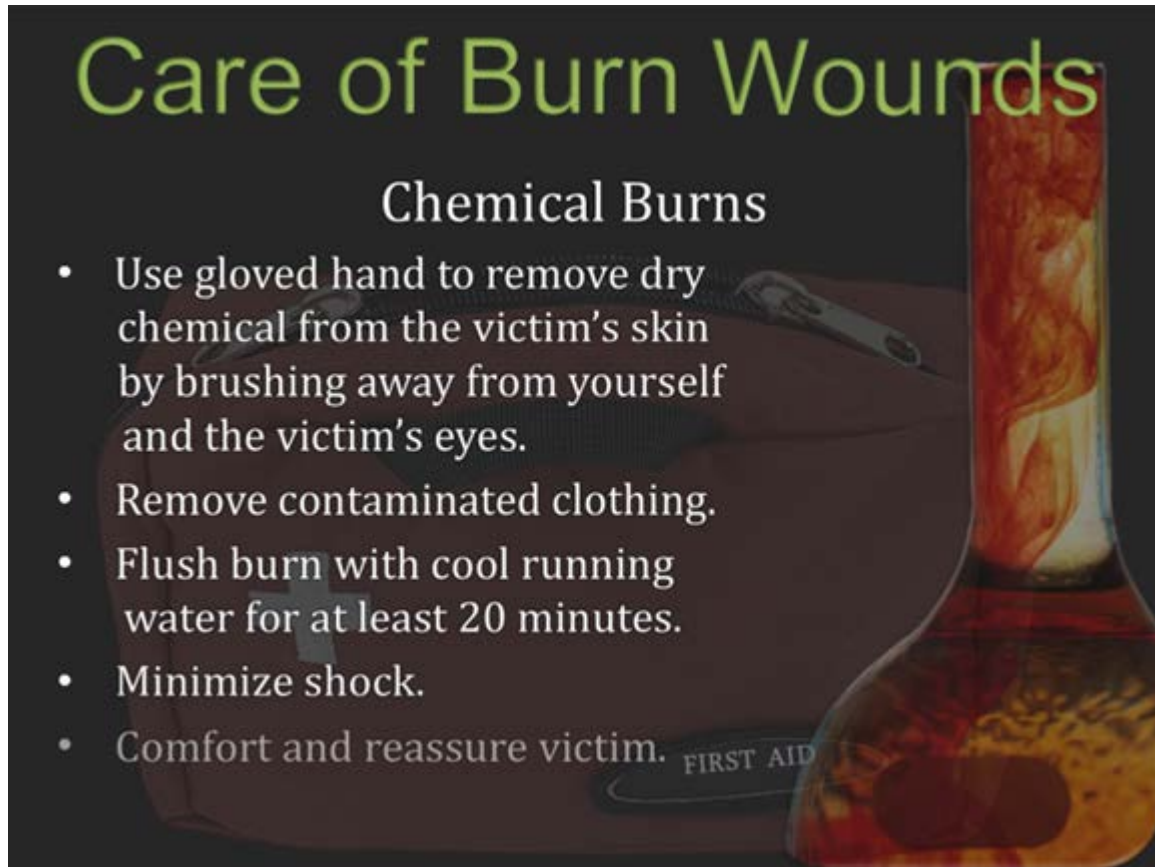
Heat and Electrical Burns

- Remove the person from the source of heat.
- Cool the burn with cool running water.
- Cover the burn with loose sterile dressing.
- Prevent infection.
- Minimize shock.
- Comfort and reassure victim.

In the case of heat or electrical burns, remove the victim from the heat source and cool the burn with cool running water. Cover the burn with a loose sterile dressing to prevent infection. Minimize shock and keep the victim comfortable.

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Care of a Chemical Burn



Care of Burn Wounds

Chemical Burns

- Use gloved hand to remove dry chemical from the victim's skin by brushing away from yourself and the victim's eyes.
- Remove contaminated clothing.
- Flush burn with cool running water for at least 20 minutes.
- Minimize shock.
- Comfort and reassure victim.

If there is a chemical burn, you, the rescuer, need to be careful not to get the chemical on you. Put a glove on, or cover your own skin, and remove the dry chemical from the victim's skin by brushing it away from yourself and the victim, especially away from your and the victim's eyes. Remove any contaminated clothing, and flush the burn with cool running water for at least twenty minutes. Minimize shock, and comfort the victim until help arrives.

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Poisoning



Poisonings

Any substance that can cause injury, illness or death.

Methods of poisoning:

1. Ingestion
2. Inhalation
3. Contact
 - a) Plant
 - b) Animal
 - c) Chemical

A poison is any substance that can cause injury, illness, or even death. Poisons can be swallowed or ingested, inhaled, or can come from direct skin contact from plants, animals, or chemicals.

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Ingestion

Poisonings

Ingestion Symptoms	Ingestion Care
<ul style="list-style-type: none">• Empty or open container of poisonous substance.• Abdominal pain.• Extreme drowsiness or unconsciousness.• Vomiting.• Chemical odor or burns.	<ul style="list-style-type: none">• Call Poison Control Center. 1-800-222-1222• Follow their instructions.• Summon EMS 911.

You may suspect poisoning by ingestion if you see an empty or open container of a poisonous substance near the victim, and if the victim exhibits abdominal pain, drowsiness, unconsciousness, vomiting, or noticeable chemical burn or odor. If there is a poisoning, call the Poison Control Center immediately at 1-800-222-1222. There are special instructions to help a poison victim. Do not try to treat the person on your own as you may cause more harm. If EMS has not been called, do so following the directions from the Poison Control Center.

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Inhalation

Poisonings

Inhalation Sources	Inhalation Care
<ul style="list-style-type: none">• Carbon Monoxide• Chlorine Gas• Household Chemicals	<ul style="list-style-type: none">• Check scene for dangers.• Summon EMS.• Move victim to fresh air.• Check and monitor victim's ABCs.

Inhaled sources of poisonings are readily available at home. Carbon monoxide is the exhaust from burning anything: gasoline, wood, propane, or natural gas. Chlorine gas is released from substances containing chlorine, such as chemicals used in swimming pools, and must be handled and applied by professionals. Household chemicals such as paint, aerosol sprays, glue, markers, and nail polish expel poisonous gasses that can lead to poisoning. These are the same chemicals that people use as recreational drugs called inhalants. If you suspect a poisoning, check the area for your own safety, call 911 to summon EMS, then remove the victim from the gas source and into fresh air. Check and monitor the victim's ABCs, and keep the victim comfortable.

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Plant Poisoning

Poisonings

First Aid for Plant Poisoning

- Know the plants!
- Remove contaminated clothing.
- Rinse infected area.
- Wash thoroughly with soap and water.
- Apply anti-itch lotion.
- Seek medical care for life-threatening symptoms .

Symptoms

- Rash
- Blisters
- Swelling
- Itching
- Fever

You may already know of some poisonous plants, such as poison ivy, poison oak, and poison sumac. Most poisonous plants cause discomfort, but some people are extremely sensitive, and the reactions may lead to life-threatening symptoms and conditions. Symptoms include rash, blisters, swelling, itching, or fever. The best defense against plant poisoning is to know and recognize the plants. If you or someone else touches a poisonous plant, remove any contaminated clothing and rinse the infected area with running water. Wash thoroughly with soap and water, and apply an anti-itch lotion for comfort. If symptoms become severe, then seek medical attention.

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Animal Poisoning



Poisonings

Animal Poisoning Care

- Summon EMS.
- Wash wound and position it below heart.
- Apply ice or cold pack -- NOT for snake bite.
- Monitor victim's ABCs.

FIRST AID

Animal poisonings range from insect stings to spider bites. In any case, the first thing you should do, depending on the severity of the wound, is summon EMS. The more poisonous the animal, the quicker you should react. Wash the wound, and position it below the victim's heart to discourage rapid blood flow to the area. Apply ice, but NOT to a snake bite. Monitor the ABCs until medical services arrive.

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Muscle, Bone, and Joint Injuries



Injuries of muscle, bone, and joints are common, especially when related to physical activity, and can range from mild to severe. A fracture is a crack, chip, or complete break in a bone. A dislocation occurs with the misalignment of one or more bones at a joint. With a sprain, the muscle tissue around a joint is injured. A strain occurs from overworked muscles.

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Immobilizing Splints



When splinting an injury, you should avoid moving the area as much as possible. Allow the victim to hold the part, then splint it in that position. There are many useful items for splinting. Be creative; nothing has to look perfect. It merely has to support the injury.

An anatomic splint is the use of another body part to hold the injured body part still. Generally this occurs by securing one leg to another, or tying an arm against the abdomen.

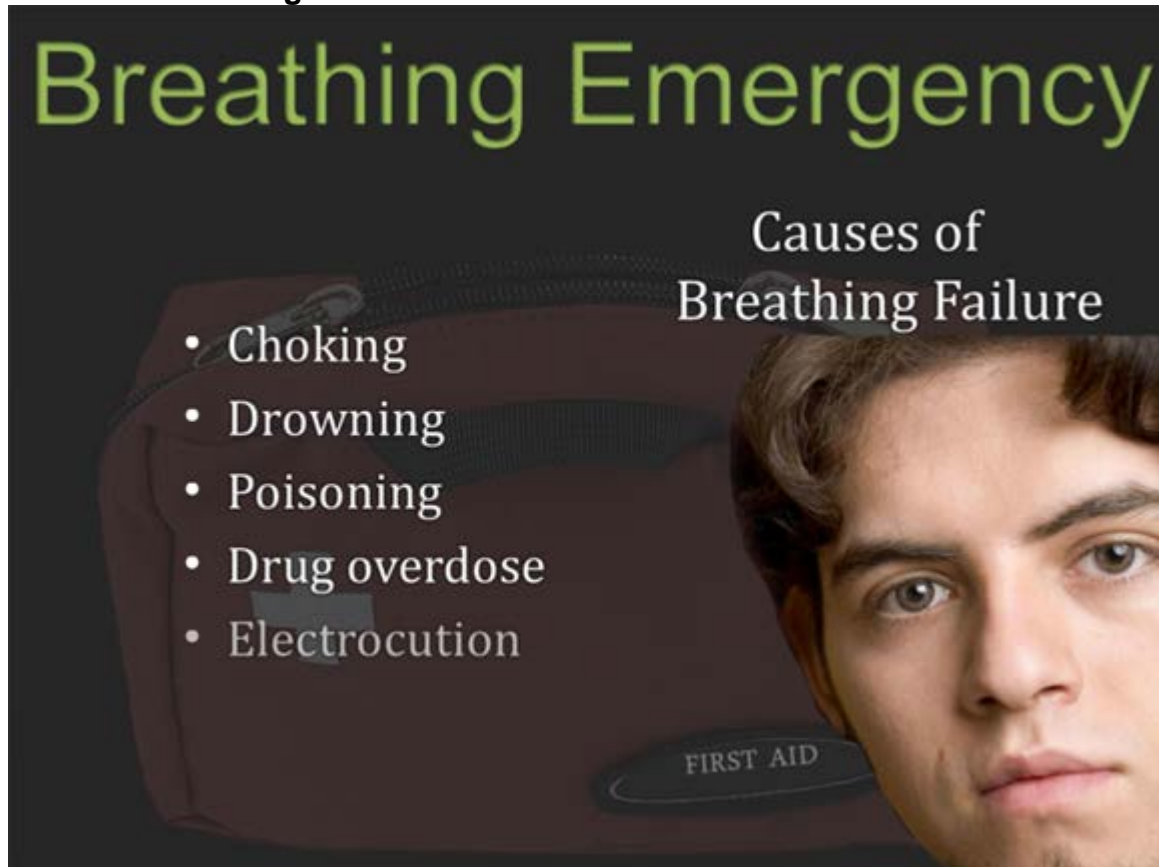
A soft splint utilizes a soft material, like a towel, to immobilize a body part. Once rolled, a soft material will provide plenty of support for transportation to a medical facility.

A rigid splint is something hard, but not sharp, that can hold an injured body part still. If nothing is available, then leave the injury rested on the ground, but do not move the victim. Wait until help arrives with splinting materials.

In a ground splint, rest the injured body part on the ground or floor to inhibit movement.

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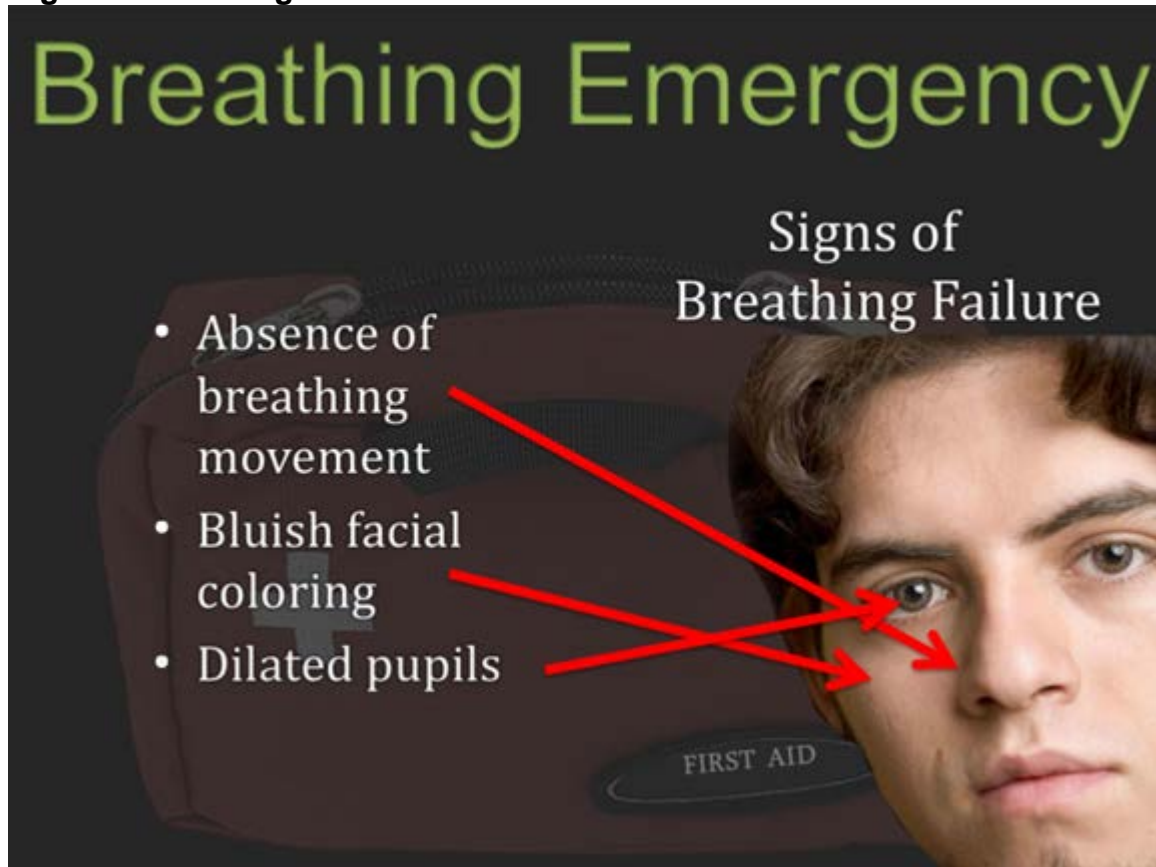
Cause of Breathing Failure



A person can stop breathing for a number of reasons. The victim could be choking on an object, like food or a toy, or could have been just rescued from near drowning and have fluid in the lungs. The person could have been poisoned or could have just experienced a drug overdose or electrocution. The possibilities are numerous.

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Signs of Breathing Failure



You can tell if someone is in breathing failure if the person does not have any air exiting the mouth and nose, or does not have breathing movement in the chest, seen with the chest rising and falling. The victim may have bluish facial coloring, especially the longer he or she goes without oxygen, and the pupils may be dilated or larger.

Adult Choking

Breathing Emergency

Choking Victim-Adult

Abdominal Thrusts

1. From behind, wrap your arms around the victims waist.
2. Place your fist thumb side in on the belly-button.
3. Grab you fist with your other hand.
4. Pull arms inward and upward with quick short thrusts to dislodge the object.



If an adult victim is choking, you need to help the victim remove the object to allow air passage to the lungs. This can be accomplished with abdominal thrusts. Standing behind the victim, wrap your arms around the victim's waist, and place your fist, thumb-side in, on the victim's belly-button. Grab your fist with your other hand. Pull your arms inward and upward with quick short thrusts to dislodge the object. This maneuver can be used on a larger child as well.

Infant Choking

Breathing Emergency

Choking Victim-Infant

Back Blows/Chest Thrusts

1. While supporting the baby's head with you hand, lay the baby down your forearm and resting on your leg.
2. Using the heel of your hand give 5 back blows between their shoulder blades
3. Turn the baby over and using your middle and ring fingers, give chest thrusts on the sternum between the nipples.



If an infant is choking, perform back blows or chest thrusts to dislodge the object that is causing the choking. Hold the baby face down across your arm, supporting the head and resting your forearm on your thigh. Using the heel of your free hand, give five back blows between the victim's shoulder blades. If the object has not dislodged, turn the baby over. Using your middle and index fingers, give five chest thrusts on the sternum between the nipples.

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Adult Rescue Breathing

Breathing Emergency

Rescue Breathing-Adult

1. Place one hand on the victim's forehead and one under the chin.
2. Tilt the victim's head back to open airway.
3. While maintaining hand pressure on the forehead, reach down and pinch victim's nose with your thumb and index finger.
4. Administer 1 breath every 5 seconds.



Once the airway is clear and you have determined that the person is not breathing, begin rescue breathing. For an adult, place your closest hand on the victim's forehead and the other on the chin. Tilt the head back to open the airway. Using the forehead hand, reach down and pinch the victim's nose. Administer one breath every five seconds by sealing your mouth over the victim's mouth and blowing air into the person's lungs. The same technique is used for a larger child, except the head tilt is less. In the image above, you may notice a barrier between the victim and rescuer to protect both people.

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Infant Rescue Breathing

Breathing Emergency

Rescue Breathing-Infant

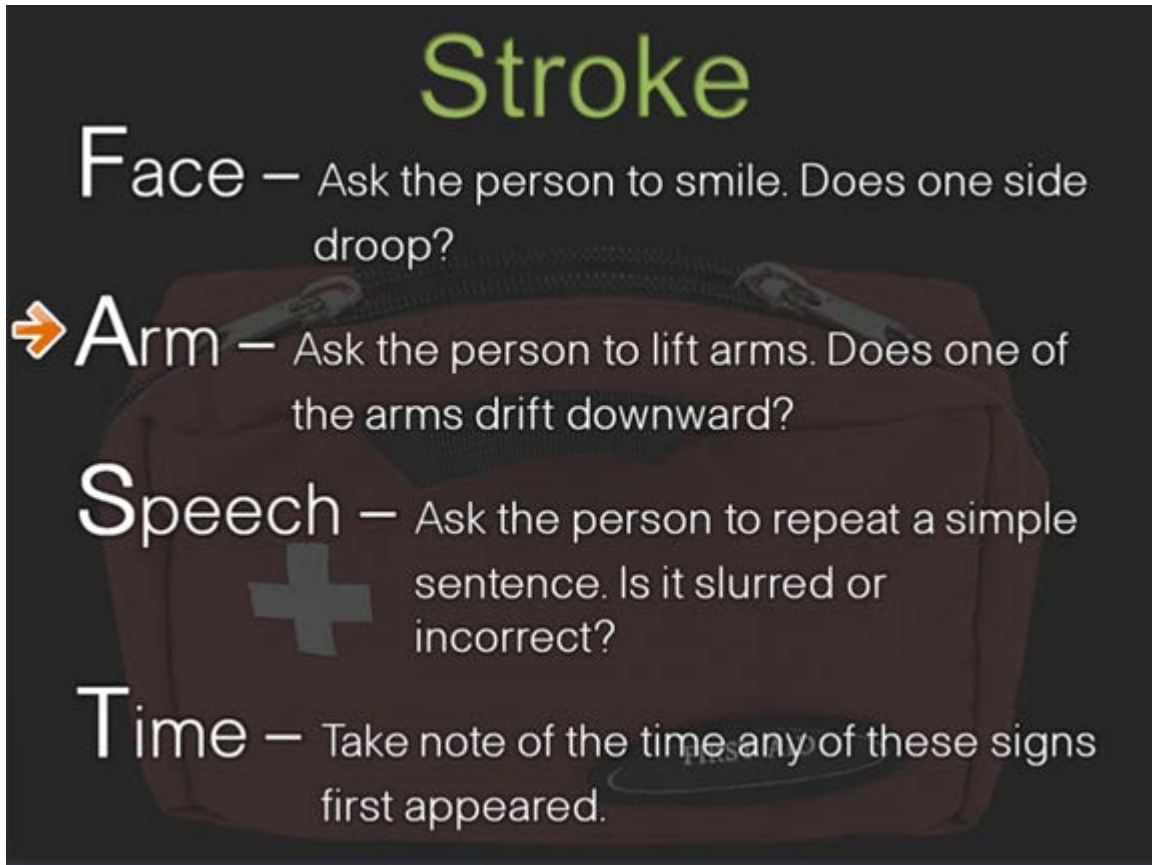
1. Tilt the head to neutral position for an infant.
2. Administer breaths through both the mouth and nose.
3. Administer 1 breath every 3 seconds.



The rescue-breathing techniques are different for an infant. Once the airway is clear and you have determined that the infant is not breathing, you can begin rescue breathing. Because an infant is so small, there is not enough room to pinch the nose. An infant's neck structure is weak, so tilt the infant's head only to a neutral position. Cover the infant's mouth and nose with your mouth to administer one breath every three seconds.

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Stroke



A stroke occurs when there is an interruption in the blood flow to the brain. When this occurs, a person can lose control of parts of his or her face or arms, or can have slurred speech. If someone exhibits such symptoms, the American Red Cross® says to think “F.A.S.T.”

See if the person can smile when asked to do so. A person who has experienced a stroke may have one side of the face droop because he or she has lost control of that side. Call 911.

If, after being asked to raise his or her arms, one of the person’s arms begins to drift downward, he or she may have experienced a stroke. Call 911.

Ask the person to repeat a simple sentence after you. If the person’s speech is slurred or cannot say the sentence correctly, then call 911.

If any of these signs appear, take note of the time they first appeared and notify 911.

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Weather-Related Emergency



The following weather-related emergencies are progressive. In other words, if you do not treat a victim for symptoms of one illness, it can lead to another, more serious illness. That is why it is important to treat the victim as soon as possible if the person exhibits symptoms of illness caused by heat or cold weather.

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Heat-Related Emergency

The infographic features a dark background with a large thermometer on the left showing a high temperature. In the center is a first aid kit with a white cross and the words 'FIRST AID' on it. Overlaid on this is a table with three columns: 'Illness', 'Symptoms', and 'Cause'. The table lists three conditions: Heat Cramp, Heat Exhaustion, and Heat Stroke.

Illness	Symptoms	Cause
Heat Cramp	Painful muscle spasm	Dehydration and salt loss
Heat Exhaustion	Skin cool and moist; weakness	Overabundant sweating
Heat Stroke	Skin hot and dry; vomiting	Body's cooling system shuts down

Heat cramps are painful muscle spasms resulting from dehydration and salt losses.

The next phase in heat-related emergencies is heat exhaustion, which shows the beginning signs of a troubled cooling system. A person's skin becomes cool and moist due to an overabundance of sweating. The victim is most likely very weak and tired.

If the victim does not get help by this stage, it could lead to heat stroke. At this stage, the body's cooling system completely shuts down, the skin becomes hot to the touch and very dry. If the victim is still conscious, vomiting may occur. Heat stroke is a life-threatening illness, and the person needs immediate medical attention.

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Heat-Related Care



The infographic features a dark background. At the top, the text 'Weather-Related Emergency' is written in a light green, sans-serif font. Below it, 'Care for Heat-Related Emergency' is written in a white, serif font. On the left side, there is a red thermometer with a white scale and a red bulb. In the center, a brown first aid kit is shown with a white cross on its front and the words 'FIRST AID' in white on a dark oval patch. A list of six steps is positioned to the right of the kit.

Weather-Related Emergency

Care for Heat-Related Emergency

1. Move victim to a cool place.
2. Loosen tight clothing.
3. Apply cool wet towels to skin.
4. Fan the victim.
5. If conscious, give victim small sips of water or sports drink (about 4 oz. every 15 minutes).
6. If victim loses consciousness, call 911.

The first-aid objective for treating a victim of a heat-related emergency is to cool and rehydrate the victim. Move the victim to a cool place, whether into shade or an air-conditioned building. Ensure cool air is readily available. Loosen tight or constrictive clothing, and apply a cool wet cloth to the skin. Fan the victim if appropriate air circulation is not present. Only if the victim is conscious, administer small amounts of water or sports drink at a rate of no more than about four ounces within a fifteen-minute period. If the victim loses consciousness, call 911.

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Cold-Related Emergency

Weather-Related Emergency

Hypothermia

- Shivering or numbness
- Weakness
- Loss of consciousness

Care

1. Move victim to warmer place.
2. Remove wet clothing and dry victim.
3. Wrap victim in blankets to gradually increase temperature.
4. If conscious, give victim warm non-alcoholic, non-caffeinated drinks.

Hypothermia, the opposite of heat-related illness, occurs when the core body temperature drops so low that the victim cannot warm up on his or her own. Signs of hypothermia are shivering, weakness, and possible loss of consciousness. As the care provider, you need to help the victim become warm. Move the victim to a warmer place, and remove any wet clothing. Dry the victim, and wrap the person in blankets to gradually increase the body temperature. Do not apply immediate heat, like a bath. Rapid temperature increase can cause an irregular heart rhythm and can lead to cardiac arrest. If the victim is conscious, give the person warm, non-alcoholic, non-caffeinated drinks.

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Cold-Related Care



Weather-Related Emergency

Frostbite

- Numbness to affected area
- Cold to touch
- Discoloration

Care

1. Remove victim from cold.
2. Handle affected area gently. DO NOT rub.
3. Re-warm body part by soaking in warm water (100 – 105 degrees).
4. Separate finger and toes with gauze, and wrap affected part in loose, dry bandages.

The infographic features a close-up of a hand with frostbite on the fingers, showing redness and swelling. In the background, there is a brown first aid kit with a red thermometer graphic on the right side. The text is overlaid on a dark background.

Frostbite is similar to burns. It is the freezing of body tissue when exposed to the cold. The affected area becomes numb and cold to the touch. It may even become discolored by turning white, yellow, or blue, and can even become blistered and scabbed. To care for a victim with frostbite, first remove the victim from the cold, while handling the injury gently. DO NOT rub the area. Re-warm the frostbitten area by soaking it in warm water. Keep affected parts, such as fingers and toes, separate with gauze or cloth, then wrap the affected area loosely with dry bandages.

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Fainting

An infographic with a dark background. On the right, a man in a white shirt lies on his back with his head between his knees. A 'FIRST AID' sign is on the floor. The text is split into two columns: 'Call 911 For Someone Else' and 'Fainting For YOU'.

Call 911

For Someone Else

1. Lie person on back and check breathing.
2. Give fresh air.
3. Raise legs above heart level.
4. Remove tight clothing.
5. Place cold compress on forehead.
6. Be prepared to roll person over if vomiting occurs.
7. Have person get up slowly.

Fainting

For YOU

Lie down, or sit down with your head between knees.

FIRST AID

Anytime someone faints, it should be treated as a medical emergency until the person is conscious and the cause of the fainting episode is found. Call 911. If someone experiences regular or numerous fainting episodes, then the person should see a doctor.

If you feel as if you are about to faint, you should lie down, or sit down and place your head between your knees.

To help someone else who has fainted, lie the person down on his or her back and check for breathing. Make sure the person has plenty of fresh air. Raise the legs above the level of his or her heart if possible to help restore blood flow to the brain. Make sure there is nothing constricting the blood flow, such as tight clothing or accessories.

If possible, place a cold compress on the person's forehead. Some people vomit during fainting episodes, so be prepared to roll the person on his or her side if this occurs.

Anyone who has regained consciousness from fainting should get up slowly in order to not induce fainting again.

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Head, Neck, & Back Injuries

Head, Neck, & Back Injuries

Call 911

Care

1. Reduce movement of head, neck, or spine.
2. DO NOT move the head position.
3. Place hands on either side of the head to stabilize.
4. Wait for EMS to arrive.

Any injury to the head, neck, or back should be considered a medical emergency; therefore, you should first call 911. Next, try to reduce any chance of movement of the head, neck, or spine. Do not move the position of the person's head. Place your hands on either side of the head, and stabilize it. If the person's head is turned to one side, it can be extremely harmful if you try to move it. Calm the person as you wait for EMS to arrive.