

## **Causes**

**Burns** can result from dry heat (fire), moist heat (steam, hot liquids), electricity, chemicals, or from radiation, including sunlight. The longer the skin is exposed to the burn source, the worse the burn can be

## **Treatment**

Third-degree burns always need emergency care. A second-degree burn needs immediate care if it is on the face, hands, feet, genitals, a joint, or if the burn affects a large area. **Self-Care/First Aid** treats most first-degree burns and second-degree burns.

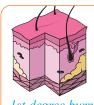
# Get more information from:

National Safety Council www.nsc.org

## Burns

# Signs & Symptoms

**First-degree burns** affect only the outer skin layer. The skin area appears dry, red, and mildly swollen. First-degree burns are painful and sensitive to touch. They should feel better in 1 to 2 days. They heal in about a week



lst degree burn

**Second-degree burns** affect the skin's outer and lower layers. The skin is painful, swollen, red, and has blisters. The skin also has a weepy, watery surface.

**Third-degree burns** affect the outer and deeper skin layers and organs below the skin. The skin appears black-and-white and charred. It swells. Tissue under the skin is often exposed. Third-degree burns may have less pain than first-degree or second-degree burns. Why? No pain is felt where nerve endings are destroyed. Pain may be felt around the margin of the burn, though.





## **Questions to Ask**

With or following a burn, do any of these problems exist?

- Loss of or decreasing level of consciousness. (See Fainting) **& Unconsciousness** at www.HealthyLearn.com.)
- Breathing problems, chest pain, fast or irregular pulse.
- The person was in an enclosed room with exposure to a large amount of smoke from a fire.





Does the burn affect outer and deeper skin layers and do any of these signs occur?

- The skin looks charred or black and white and dry.
- Skin layers separate. This may look like burned pages of a paper book.
- The burned area covers more than the size of the person's palm.
- Pain is not felt.



"First Aid For Severe Burns Before Emergency Care" on next page.}

{Note: See

Flowchart continued on next page



#### Burns, Continued

Does the burn appear red with swelling, blisters, and pain at the time of the burn? If so, do any of these problems occur?

- The burn is on an infant or child and it covers more than an area the size of the palm of the child's hand.
- The burn is on an adult and the area affected is larger than 10 square inches or is more than two times the size of an adult's palm.
- The burn is on the face, hands, feet, genital area, or on any joint.



column.}

Does a chemical burn affect a large area of the body? Or, does it affect the hands, feet, face, eyes, or genital area?



Do any of these problems occur?

- · A sunburn affects a large area of the body. It is very painful. The skin appears red, dry, and shiny. Shivering or chills also occur.
- A burn affects a person who is diabetic, elderly, or who has a lowered immune status from illness. taking medicine, etc.
- A burn causes uncontrolled pain despite using Self-Care/First Aid.
- The burn has not improved in 48 hours.



See Self-Care / First Aid in next column



Give first aid for burns as needed. See next



{Note: Give first aid for

burns as needed. See next column.}



## Self-Care / First Aid

#### For Severe Burns Before Emergency Care

- Remove the person from the source of heat. For electrical burns, see Electric Shock at www.HealthyLearn.com. Call 9-1-1! Keep the person's airway open. Treat for **Shock**. (See at www.HealthyLearn.com.)
- Remove hot or burned clothes that come off easily, not if they are stuck to the skin.
- Cover the burns loosely with clean cloths. Use direct pressure to control bleeding. Don't rub.
- Stay with the person until medical care arrives.
- If lye or a dry chemical gets on the skin, brush off the powder. Then flush with clean water for at least 20 minutes or until EMS arrives. Remove glasses, but not contacts, before treating the eyes.

#### For First-Degree and Second-Degree Burns (that are less than 3" in diameter)

- Use cold water or cloths soaked in cold water on burned areas for 15 minutes or until the pain subsides. Do not use ice at all. Doing this could result in frostbite.
- Cover the area loosely with a dry cloth, such as sterile gauze. Hold it in place by taping only the edges of the gauze. Change the dressing the next day and every 2 days after that.
- Don't use ointments. Aloe vera can be applied over closed skin 3 to 4 times a day. For a more severe burn less than 3" x 2", use Second Skin Moisture Pads, etc.
- Don't break blisters. If they break on their own, apply an antibacterial spray or ointment or treatment prescribed by your doctor. Keep the area loosely covered with a sterile dressing.
- Prop the burned area higher than the rest of the body, if you can.