1 🔲 Chapter 24 Burns

2 📃 Burns

- Burns account for over 10,000 deaths/year.
- Burns are the most ______ and painful injuries.
- A burn occurs when the body receives more ______ energy than it can absorb.
 - Sources of this energy include heat, toxic chemicals, and electricity.
- Remember to perform a complete ______ on burn patients for other injuries.

3 Complications of Burns

- When a person is burned, the skin that acts as a ______ is destroyed.
- Burns to the airway are of significant importance.
- Circumferential burns of the chest can compromise ______.
- Circumferential burns of the extremity can lead to neurovascular compromise and irreversible ______.

4 回 The Burn Victim is at Risk For:

- _____: most deaths from burns are caused by infection, days or weeks later
- •_____: the body is unable to maintain body temp; even in hot weather
- Hypovolemia: due fluid loss from blisters and swelling
- Shock: may be respiratory, hypovolemic, or septic

5 Determining Burn Severity

- What is the _____ of the burn?
- What is the _____ of the burn?
- Are any critical areas involved?
 - Face, upper airway, hands, ______, genitalia
- Are there any preexisting medical conditions or other injuries?
- Is the patient younger than 5 years or older than 55 years of age?

6 📃 Classifications of Burns

- •_____(1st Degree)
- Thickness (2nd Degree)
- •_____ Thickness (3rd Degree)

7 📃 Superficial Burns

- 1st degree burns
- Involve only _____ skin layer
- Characterized by _____ of the skin

8 🔲 Partial Thickness Burns

- 2nd degree burns
- Involve the ______ and some portion of the dermis
- Characterized by the formation of ______

9 🔲 Full Thickness Burns

- 3rd degree burns
- Extend through _____ layers of the skin
- Characterized by ______
 - Black or dark brown and leathery

10 📃 Extent of Burns

- Can be estimated using the rule of ______
- Divides the body into sections, each representing approximately 9% of the total body surface area
- Proportions differ for infants, ______, and adults

11 Extent of Burns (Rule of 9's)

- Used to determine percent of body surface that is burned (TBS)
- Area Adult Child InfantHead 9% 12% 18%
- Arms 9% 9% 9%
- Torso (front) 18% 18% 18%
- Torso (back) 18% 18% 18%
- Genitalia 1% 1% 1%
- •Legs 18% 16.5 13.5%

12 Extent of Burns (Rule of 9's)

13 Rule of Palm (Palmer Method)

- The size of the patient's ______ is roughly equal to ______ % of Total Body Surface (TBS)
- Used when burns are ______ about the body

14 🔲 Critical Burns (1 of 2)

- Full-thickness burns involving ______, feet, face, upper airway, genitalia, or circumferential burns of other areas
- Full-thickness burns covering more than _____% of total body surface area
- Partial-thickness burns covering more than _____% of total body surface area
- Burns associated with _____ injury

15 🔲 Critical Burns (2 of 2)

- Burns complicated by _____
- Burns on patients younger than _____ years old or older than
 - _____years old that would be classified as moderate on young adults
- Burns involving complications, diabetes, or other injuries or illnesses.

16 🔲 Moderate Burns

- 3rd degree burns of ______ to ____% TBS excluding face, hands, feet, or genitalia.
- 2nd degree burns of _____to ____% TBS.
- 1st degree burns of _____to ____% TBS.

17 🔲 Minor Burns

- Full-thickness burns involving less than _____% of the total body surface area
- Partial-thickness burns covering less than _____% of the total body surface area
- Superficial burns covering less than _____% of the total body surface area

18 📃 Chemical Burns

- Occur whenever a toxic substance contacts the body
- _____ are particularly vulnerable.
- Fumes can cause burns.
- The severity of the burn is directly related to the:
 - •_____ of chemical
 - Concentration of the chemical
 - •_____ of the exposure
- To prevent exposure, wear appropriate gloves and eye protection.

19 🔲 Care for Chemical Burns

- Remove the chemical from the patient.
- If it is a powder chemical, ______ off first.
- Remove all contaminated ______.
- Flush burned area with large amounts of water for about ______to _____to _____to
- Transport quickly.

20 📃 Electrical Burns (1 of 2)

- The human body is a good ______.
- The type of electric current, magnitude of current, and voltage have effects on the seriousness of the burn.
- Make sure the _____ is off before touching the patient.
- There will be ______ wounds (an entrance and an exit wound) to bandage.
- Transport the patient and be prepared to administer CPR.

21 🔲 Electrical Burns (2 of 2)

22 🔲 Inhalation Burns (1 of 2)

- Can occur when burning takes place in ______ spaces without ventilation
- Upper airway damage is often associated with the inhalation of superheated
- Lower airway damage is more often associated with the inhalation of ______ and particulate matter.

23 🔲 Inhalation Burns (2 of 2)

_____·

• You may encounter severe upper airway swelling, requiring intervention immediately.

| Consider requesting backup. | |
|---|--------|
| The combustion process produces a variety of ga | ses. |
| Carbon monoxide intoxication should be considered whenever a | |
| of people in the same place all report a headache | or |
| nausea. | |
| 24 🔲 Radiation Burns | |
| Potential threats include: | |
| Incidents related to the use and transportation of | |
| isotopes | |
| Intentionally released radioactivity in attacks | |
| You must determine if there has been a radiation exposure and then whether | ٢ |
| ongoing exposure continues to exist. | |
| 25 🔲 3 Types of Ionizing Radiation | |
| : Little penetrating energy, easily stopped by the s | kin or |
| a single piece of paper | |
| : Greater penetrating power, but blocked by simpl | е |
| protective clothing | |
| •: Very penetrating, easily passes through the body | / and |
| solid materials | |
| • Most ionizing radiation accidents involve gamma radiation, or x-rays | |
| 26 Management of Radiation Burns (1 of 2) | |
| •yourself | |
| Patients with a radioactive source on their body must be initially cared for by | / a |
| • open wounds. | |
| Notify the emergency department. | |
| 27 🔲 Management of Radiation Burns (2 of 2) | |
| the radioactive source and the length of the patier | nt's |
| exposure to it. | |
| Limit your duration of exposure. | |
| Increase your from the source. | |
| Attempt to place between yourself and the source | es of |
| gamma radiation | |
| 28 Emergency Care for Burns (1 of 2) | |
| Follow proper BSI precautions. | |
| Move the patient from the burning area. | |
| Stop the process | |
| Dry, sterile, loose dressing and bandaging | |
| Give oxygen if the patient has a critical burn. | |
| Protect from; regardless of the ambient temperat | ure |

| 29 Emergency Care for Burns (2 of 2) | |
|--|---------------------------------|
| Always look in | for soot or blisters |
| Prevent body heat loss. | |
| Rapidly estimate the burn's severity. | |
| Check for traumatic injuries. | |
| Treat the patient for | · |
| Provide prompt transport. | |
| Transport to a | center if critical |
| 30 亘 Treatment Tips for Burns | |
| Use no types of gels or other medical control or protocols | unless authorized by |
| • Do not use | bandages due to swelling |
| Sterile sheets (burn sheets) work we | Il for large burn areas |
| ALWAYS examine the | and throat |
| 31 📃 Functions of Dressing and Bandagi | ng for Burns |
| Control | |
| Protect the wound | |
| • Prevent | |
| 32 📃 Pediatric Needs | |
| Burns to children are considered adults. | serious than burns to |
| Children have more | area relative to body mass than |
| adults. | |
| Many burns result from | · |
| | |

• Report all suspect cases of abuse to the authorities.