ION PLAN FOR BURNS **MISSISSIPPI BURN, HAND & RECONSTRUCTION CENTERS** Scan this ASSESS Step 1: Determine the details of the injury **OR Code** to refer a patient

Follow ATLS or ABLS protocol Check for other injuries – **TREAT TRAUMAS FIRST**

Complete your Patient Surveys:

Primary Survey – Your ABCDEs

Remove anything hot, burning or contaminated from the patient

- A Airway
- D Disability
- B Breathing
- E Exposure
- C Circulation

Secondary Survey – Patient details

• Complete physical exam • Labs

Patient history

- What happened?
- When did it happen?
- Where did it happen?
- Was the area open or closed? Remember, closed areas may increase chances of an inhalation injury.

Chemical

Radiation

• Frostbite

Medications and

allergies

- How did it happen?
 - Method:
 - Thermal
 - Electrical
 - Inhalation
- Treatment so far
- Associated symptoms
- Is the patient a • Immunization (tetanus) smoker? Past medical history Most recent meal

Size of injury – Total Body Surface Area (TBSA) Rule of Nines 4.5% AGES 0-9 **9**% 4.5% **9**% **9**% 1% 18% 4 Ul **|9%\|9%** For each year over 1, subtract 1% from the head and add 0.5% to each lea

Method considerations

- THERMAL BURNS
- Temperature Duration of contact • Dermal thickness
- ELECTRICAL BURNS
 - Duration of contact
 - Pathway of current
- CHEMICAL BURNS
- Duration of

1% Patient's entire palm surface is equal to approximately 1% TBSA

Location of injury

- Identify contact points
- Concerns specific to locations:
- Extremity considerations Compartment syndrome
- Loss of function/ feeling
- Neck/Chest
- Compartment

FIRST SECOND THIRD DEGREE DEGREE DEGREE BURN **BURN BURN EPIDERMIS** DERMIS **HYPODERMIS**

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Depth of injury

- SUPERFICIAL (First Degree)
- Dry, red, easily blanching, sometimes painful
- Example: Sunburn
- NOT counted in calculations of total burn surface area (TBSA)
- SUPERFICIAL PARTIAL THICKNESS (Second Degree)
- Moist, red, blanching, blisters, very painful
- Counted in calculations of total burn surface area (TBSA)
- DEEP PARTIAL THICKNESS (Second Degree)
- Drier, more pale, less blanching, less pain
- Counted in calculations of total burn surface area (TBSA)
- FULL THICKNESS (Third Degree)
- Dry, leathery texture, variable color (white, brown, black), loss of pin-prick sensation Counted in calculations of total burn surface area (TBSA)

- current
 - Voltage source • Amperage of Tissue resistance
 - - Ouantity of

chemicál

- contact Concentration of chemical
- Temperature of chemical
- synarome • Swelling could affect airway



- OR Code to add us as a contact
- Do not wrap with a dry dressing
- Do not use ice or cold water soaks
- Compartment syndrome
- Young or elderly patients have thinner skin and can receive a more severe injury

• Adults – 2 cc/kg/hr • Children < 14 - 3 cc/kg/hr

• 2-4 cc of Lactated Ringers x %TBSA x weight (kg)

- Electrical 4 cc/kg/hr
- Urine output goals

• The formula

• How much?

- Adults = 0.5-0.7 cc/kg/hr
- Children = 0.7-1.4 cc/kg/hr
- **<u>Pre-Hospital fluid protocol</u>**
 - \leq 5 years 125 cc/hr

Fluid resuscitation – Parkland Formula Always check with the burn team if you have fluid questions.

- 6-13 years 250 cc/hr
- > 13 years 500 cc/hr Calculate fluid from the time of injury
- The schedule First 24 hours Give first half in first 8 hours.
 - Titrate to achieve goal urine output. (Chart below)

Step 2: Initiate treatment of the patient

- Then, give the remainder over the next 16 hours.
 - **TITRATION LEVELS** Adult > 30-50 cc/hr Child > 1 cc/kg/hr Electrical > 75-100 cc/hr

SOURCE: AMERICAN BURN ASSOCIATION'S ADVANCED BURN LIFE SUPPORT COURSE PROVIDER MANUAL

- Other considerations • Remove all clothing & jewelry
 - Maintain patient's temperature
 - Keep patient covered
 - Warm room
- Warm IV fluids Injury site preparation and treatment
 - First, cool the wound
 - Clean the wound of soot, debris, etc.
- Avoid use of silver sulfadiazine
- Cover wound with Xeroform or polysporin/nonstick dressing prior to transfer

Step 3: Send the patient for specialized care if:

Note: These guidelines are based on criteria established by the American Burn Association. They are intented to be used to aid in clinical decision making.

- 1. Partial thickness burns >= 20% Total Body Surface Area (TBSA) in patients aged 10 - 50 years old.
- 2. Partial thickness burns >=10% TBSA in children under 10 or adults over 50 vears old.
- Full-thickness burns >= 5% TBSA in patients of any age.
 Patients with partial or full-thickness burns of the hands, feet, face, eyes, ears, perineum, and/or major joints.
- 5. Patients with high-voltage electrical injuries, including lightning injuries.
- 6. Patients with significant burns from caustic chemicals.
- Patients with burns complicated by multiple trauma in which the burn injury poses the greatest risk of morbidity or mortality. In such cases, if 7. the trauma poses the greater immediate risk, the patient may be treated initially in a trauma center until stable before being transferred to a burn center. Physician judgment will be necessary in such situations and should be in concert with the regional medical control plan and triage protocols.
- 8. Patients with burns who suffer inhalation injury.
- 9. Patients with significant ongoing medical disorders that could complicate
- management, prolong recovery, or affect mortality.
 10. Hospitals without qualified personnel or equipment for the care of children should transfer children with burns to a burn center with these capabilities.
- 11. Burn Injury in patients who will require special social/emotional and /or long-term rehabilitative support, including cases involving suspected child abuse, substance abuse, etc.

WHEN IN DOUBT, REMEMBER: WE ARE A PHONE CALL AWAY!



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