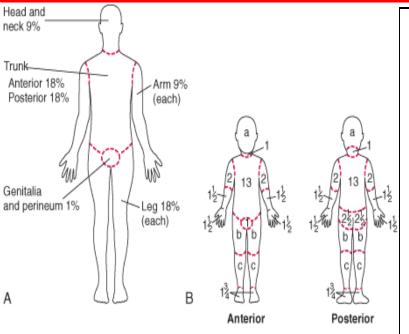


Revised 05/25/2017

## C E P

## **Thermal Burn**



Relative percentage of body surface area (% BSA) affected by growth

1 yr

0 yr

Age

5 yr

10 yr

## Rule of Nines

- Seldom do you find a complete isolated body part that is injured as described in the Rule of Nines.
- More likely, it will be portions of one area, portions of another, and an approximation will be needed.
- For the purpose of determining the extent of serious injury, differentiate the area with minimal or 1<sup>st</sup> degree burn from those of partial (2<sup>nd</sup>) or full (3<sup>rd</sup>) thickness burns.
- For the purpose of determining Total Body Surface Area (TBSA) of burn, include only Partial and Full Thickness burns. Report the observation of other superficial (1<sup>st</sup> degree) burns but do not include those burns in your TBSA estimate.
- Some texts will refer to 4<sup>th</sup> 5<sup>th</sup> and 6<sup>th</sup> degree burns. There is significant debate regarding the actual value of identifying a burn injury beyond that of the superficial, partial and full thickness burn at least at the level of emergent and primary care. For our work, all are included in Full Thickness burns.
- Other burn classifications in general include:
  - 4<sup>th</sup> referring to a burn that destroys the dermis and involves muscle tissue.
  - 5<sup>th</sup> referring to a burn that destroys demis, penetrates muscle tissue, and involves tissue around the bone.
  - 6<sup>th</sup> referring to a burn that destroys demis, destroys muscle tissue, and penetrates or destroys bone tissue.

a = 1/2 of nead	9 1/Z	8 1/Z	01/2	51/2	4 1/Z	
b = 1/2 of 1 thigh	2 3/4	3 1/4	4	4 1/4	4 1/2	Estimate spotty areas of burn by using the size of the
c = 1/2 of 1 lower leg	2 1/2	2 1/2	2 3/4	3	3 1/4	patient's palm as 1 %

15 yr

4.4

## **Pearls**

05/25/2017

- Recommended Exam: Mental Status, HEENT, Neck, Heart, Lungs, Abdomen, Extremities, Back, and Neuro
- Green, Yellow and Red In burn severity do not apply to the Start / JumpStart Triage System.
- Critical or Serious Burns:

Body Part

- > 5-15% total body surface area (TBSA) 2<sup>nd</sup> or 3<sup>rd</sup> degree burns, or 3<sup>rd</sup> degree burns > 5% TBSA for any age group, or circumferential burns of extremities, or electrical or lightning injuries, or suspicion of abuse or neglect, or inhalation injury, or chemical burns, or burns of face, hands, perineum, or feet
- Require direct transport to a Burn Center. Local facility should be utilized only if distance to Burn Center is excessive or critical interventions such as airway management are not available in the field.
- Burn patients are trauma patients, evaluate for multisystem trauma.
- Assure whatever has caused the burn is no longer contacting the injury. (Stop the burning process!)
- Early intubation is required when the patient experiences significant inhalation injuries.
- Circumferential burns to extremities are dangerous due to potential vascular compromise secondary to soft tissue swelling.
- Burn patients are prone to hypothermia never apply ice or cool the burn, must maintain normal body temperature.
- Evaluate the possibility of geriatric abuse with burn injuries in the elderly.
- Never administer IM pain injections to a burn patient.