2023 Pediatric Burn Treatment Clinical Guideline

PED

Start

Total Body Surface Area (% TBSA) Affected by Age Lund-Browder a a a a a 1% 15% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% Anterior Posterior AGE

 Body Part
 0 yr
 1 yr
 5 yr
 10 yr
 15 yr

 a = 1/2 of head
 9.5%
 8.5%
 6.5%
 5.5%
 4.5%

 b = 1/2 of 1 thigh
 2.75%
 3.25%
 4.0%
 4.5%
 4.5%

 c = 1/2 of 1 lower leg
 2.5%
 2.5%
 2.75%
 3.0%
 3.25%

First degree burns are not included in the % TBSA

Patient palmer surface = 1% (Includes Fingers)

This algorithm does not replace clinical judgment and is not intended to be prescriptive for all patients.

Does patient meet American Burn Association Referral Criteria?

- >10% TBSA
- Burns over any joint, face, perineum, hands, or feet
- 3rd degree injury of any size
- Pre-existing medical conditions
- Electrical / Chemical injuries
- Inhalation injury
- Burn injury along with trauma
- Circumferential injury

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- · Clean burn with soap and water
- Apply appropriate topical, non-stick layer and gauze dressing

(See attached material for dressing information)



Does patient meet discharge criteria?

- Normal mental status
- Resolving or minor symptoms
- Tolerating oral intake
- Dependable social support
- No suspicion of abuse of neglect
- Available caregiver to perform wound
 care



Consider Discharge

- Use the "UofU MedPic" app to share HIPAA compliant photos and contact information
- Teach caregiver how to do wound care
- · Provide enough supplies until clinic appt
- Provide prescription for pain medication

Burn OP Clinic (801) 581-3050 Hours- M-F 8am-5pm YES trauma cobstruction directly to

Isolated thermal injury without trauma or impending airway obstruction to be transported directly to Burn Center



- All scene flights
- Referral for trauma patient who has not undergone a complete trauma evaluation



Transfer to PED1

*Upper airway edema may make intubation difficult as symptoms progress

*Secure the ETT with ties passed around the head; do not use tape as it will not stick to burned tissue YES

Transfer to UUH Burn Center Call: (801) 587-8980

Use the "UofU MedPic" app to share HIPAA compliant photos and contact information

While awaiting transfer assess and initiate fluid resuscitation (see below**)

Primary Survey
Additional Burn Considerations

Does patient have Airway involvement?

- Burns to face and neck
- Circumferential torso burn
- Burned while in a closed space
- Hoarse voice, Hypoxia, stridor
- Burns > 20% TBSA can cause edema formation, regardless of area





- Consider intubation* and NG insertion
- · Do not give steroids

Initiate 100% FiO2

Initiate Fluids/Trauma Labs/Foley Catheter

- Start Initial Fluid Rate if burns are > 10% TBSA**
- Remove all clothing and jewelry
- Maintain normothermia (mylar blanket, warm blanket, warm fluids)
- Elevate burned extremities and ensure adequate pulses with doppler if needed
- Pain control providers should stay within their pediatric dose protocols.
- Check tetanus status
- Non-trauma burn patients will not receive a fluid bolus
- After secondary survey and %TBSA is determined, set to resuscitation fluid rate

**Initial Fluid Rate - LR ≤ 5 years : 125ml/hr.

6-12 years : 250ml/hr. > 13 years: 500 ml/hr.

Resuscitation Fluid Rate - LR

- Children ≤ 12 years- 3 ml LR x weight in Kg x % TBSA burn
- Children ≥ 13 years- 2 ml LR x weight in Kg x % TBSA burn
- Give ½ the fluid in the first 8 hours
- Calculate the hourly rate by dividing by 8

For patients < 30 kg add maintenance fluid rate -D5LR using 4/2/1 rule.

*Burn Center will assist with fluid resuscitation calculations



2023 Pediatric Burn Treatment Clinical Guideline (ED/Hospital Supply List)

Description	Notes
Mylar Blanket (optional)	Regular blankets may be used provided they don't remain on the patient when wet
L.R. IV fluid (optimal choice) NS may be used if not available	See initial and resuscitation rate
D5LR IV fluid	For patients under 30 KG MIV
ETT ties	Should be used instead of tape

Dressing Supplies

Description	Notes
Ointments (Bacitracin or Silver sulfadiazine)	Consider silver products if available (mepilex)
Non-stick dressing	Non-stick dressing in various sizes
Gauze Roll	2, 3, and 4 inch
Kerlix Sponges (4 in x 4 in)	Wrap each finger separately to facilitate range of motion
Netting (#1, 3, 5, 8, and 11)	50 yds per box
Betasept 4%, mild non- perfumed soap, or baby shampoo	Don't store in patient room due to cross contamination risk.
Large Basin	Single use item
Scissors	
Tape (1 in x 10 yds)	Can be used to secure dressing but netting is an optimal choice



2023 Pediatric Burn Treatment Clinical Guideline (Burn Dressing and Teaching Videos for Patients and Families)

SSD dressing:

https://www.facebook.com/UofUBurnCenter/videos/665390664268144/

Baci/Non-adherent dressing:

https://www.facebook.com/UofUBurnCenter/videos/198661721392769/

Mepilex dressing:

https://www.facebook.com/UofUBurnCenter/videos/2849921651796060/

Blister Removal:

https://www.facebook.com/UofUBurnCenter/videos/967820496984347/

