CONTACT DETAILS

www.trips.nhs.uk

St Andrews Burns Service Broomfield Hospital (Chelmsford)

Adults/Children 01245 516037

Chelsea & Westminster Hospital (London)

Adults 02033152500

Children 02033153706

Queen Victoria Hospital (East Grinstead)

Adults **01342 414440**

Children 01342 414469

Stoke Mandeville Hospital (Aylesbury)

Adults and Children 01296 315040

Initial Management of Severe Burns

For burn injuries in adults >15% TBSA, elderly and children >10% TBSA or those that meet the LSEBN **Burn Referral Criteria**, consider early consultation with the **local Burn Service**

Assess the following points with respect to burn injury as part of standard ATLS protocol



- □ Suspect inhalation injury:

 - voice changes

 - ✓ deep facial burns

 - history of burn in enclosed space
 - ☐ Seek review by senior anaesthetist
 - ☐ Consider need for early intubation (do not cut tube)
- ☐ Sit upright all patients with facial burns



AIRWAY



- ☐ Suspect smoke inhalation injury if raised COHb level consider CyanoKit with reduced GCS, early lactate acidosis ☐ Administer 100% FiO₂ if carbon monoxide injury suspected
- ☐ Establish baseline ABG's and SaO₂ (goal >95%)
- Discuss with local Burn Service need for Escharotomy
 Considerations within circumferential full thickness injuries to neck/chest/torso with increased ventilation pressures or ventilation compliance.

CIRCULATION



- $\hfill\square$ Insert 2 large bore peripheral IV lines in unburned skin, if able
- □ Take baseline bloods (U&E, FBC, LFT, CRP, Amylase, CK, X-Match, Drug/Tox)
- □ Discuss with **local Burn Service** need for escharotomy in circumferential burns to limb/digit:
 - Assess perfusion distal to burn
 - ☑ Elevate limbs

DISABILITY



- ☐ Assess pain score
- $\hfill \square$ Administer IV opiate analgesia according to patient's needs

EXPOSURE



- □ Remove: ☑ Hydrogel burn dressings
 - $\ensuremath{\square}$ Loose clothing/jewellery/nappies proximal to burn injury. Leave any adherent clothing.
- □ Cool: ☑ Wounds for 20 mins (with running water or wet compress if possible)
- ☐ Clean: ☑ With Normal Saline or Tap H₂0
- □ **Assess:** ☑ Extent of burn (%TBSA) using Lund & Browder chart. Do not include erythema in %TBSA estimation.
 - Depth of burn
 - ☑ Send photos via TRIPS www.trips.nhs.uk
- □ **Cover:** ☑ With loose longitudinal strips of Cling Film. Do not apply Cling Film to face.
 - $\ensuremath{\square}$ Chemical injuries must be fully decontaminated
 - ☑ Implement active warming measures to prevent heat loss

☐ Use Parkland formula



- $\hfill \square$ Use Parkland formula to estimate fluid resuscitation requirements from time of injury:
 - ☑ 4mls/kg/% burn, half over the first 8 hrs, rest over next 16 hrs
 - Administer warmed Hartmann's
- ☐ Additional maintenance fluid may be appropriate and can be discussed with the accepting Burn Service
- ☐ Adjust formula if delay between time of injury & presentation
- ☐ Insert urinary catheter and titrate fluids to urine output:
 - ☑ Adults: 0.5 1ml/kg/hr
 - ☑ Children <30kgs: 1ml/kg/hr
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 - ☑ Electrical: 1-2ml/kg/hr

☐ Assess patient's weight

☐ Maintain accurate fluid balance chart

OTHER



- ☐ Discuss with **local Burn Service**:
 - Tetanus status
 - Nasogastric tube
 - Antibiotics (routine prophylaxis not required)
 - ✓ Nil by mouth
 - Safeguarding concerns

REFER



- □ Complete LSEBN Burns Transfer Information and send via TRIPS to **local Burn Service**
- □ LSEBN guideline documents are available via TRIPS Help & Information on www.trips.nhs.uk
- ☐ Refer patient by calling the local Burn Service
- ☐ Make transfer arrangements. **Keep warm.** Sit head up.
- ☐ Telephone support and advice on care of any patient with a burn injury is available at all times