# **Checklist: Outpatient Burn Management**

For more information, please refer to the Burn Centre Consultation Guidelines. This checklist has been developed to aid in clinical decision making at Referring Hospitals caring for patients with burn injuries. This is not a replacement of the burn consultation and should only be used at the care team's discretion. Burn Centre should be consulted as deemed necessary.

Burn Consultation Guidelines

For Burn Consultation, please call CritiCall Ontario at 1-800-668-4357

## This Checklist is ONLY meant for patients who will be discharged home after consultation at your hospital. Review referral criteria; contact burn centre for advice if necessary Update tetanus if required Remove jewellery Administer analgesia to facilitate cleansing and dressing of wound Acetaminophen, ibuprofen, +/- Gabapentin or Pregabalin (Neuropathic pain management) +/hydromorphone Debride any large blisters and/or exfoliating (loose) skin Apply greasy gauze to wound, followed by saline soaked gauze and dry gauze Wrap fingers and toes individually (gloves to be used instead of mittens) Greasy gauze: Jelonet, Adaptic For burns on extremities: secure with tensor bandage wrapped

- taut but not tight
- Complete Home and Community Care Support Services (HCCSS) referral for wound care
  - Jelonet, normal saline wet to dry, change daily
- Counsel patient to wash burn wound daily at time of dressing change with soap (plain, mild, and unscented) and clean, running water
- Counsel patient to elevate burned extremities on pillows above heart level
- No antibiotics necessary unless:
  - There are signs of infection (very rare unless delayed presentation)
  - Patient immersed the burnt area in lake water (need to cover for aeromonas species)
  - Foot burn in patients with Diabetes Mellitus (DM), as these are high risk for infection
- Counsel patient on analgesia: standing acetaminophen and ibuprofen (4x daily) unless contraindicated, consider neuropathic pain agents (gabapentin or pregabalin) and may require opioid prescription. Suggest that patient take pain medication 30 minutes prior to dressing
- No activity restrictions are necessary; encourage patient to move affected area through full range of motion

## **Outpatient Consultation Information**

Hamilton Health Sciences: BurnClinicReferrals@hhsc.ca Sunnybrook Health: <a href="mailto:BurnClinic@sunnybrook.ca">BurnClinic@sunnybrook.ca</a> or Fax 416-480-6488 The Hospital for Sick Children: Sandy.Davies@sickkids.ca

### **Immediate Consultation with** Consideration for Transfer to a **Burn Centre**

#### **Thermal Burns**

- Full thickness burns
- Partial thickness burns ≥ 10% TBSA
- Deep partial or full thickness burns involving the face, hands, genitalia, feet, perineum, or over any joints
- · Patients with burn and comorbidities

#### **Inhalation Injury**

• Inhalation injury and partial and/or full thickness burns ≥5% TBSA

### Paediatrics (≤14 years or <30 kg)

• All paediatric burns may benefit from burn centre referral due to pain, dressing, rehabilitation, patient/caregiver needs, or nonaccidental trauma

### **Chemical Injuries**

All chemical injuries

#### **Electrical Injuries**

- All high voltage (≥1000V) injuries
- Lightning injury

## **High-Risk Considerations**

- ≥ 50 years of age
- Anticoagulation
- Immunosuppression
- Pregnancy
- Diabetes
- Patients with burns requiring special social, emotional, or rehabilitation care
- Patients requiring more care based on the assessment of the ED Physician
- Significant medical problems

### **Consultation Recommendation**

## **Thermal Burns**

- All potentially deep burns of any size
- Poorly controlled pain
- Advice for non-urgent or non-emergent burns at hospital with qualified personnel and equipment for burn care and scar management
- Outpatient referral for Partial thickness non-functional burns < 10%

#### **Inhalation Injury**

- · Inhalation injury with burn
- Inhalation injury without burn, consult critical care

#### **Electrical Injuries**

• Low voltage (<1000 V) electrical injuries should receive consultation and consideration for follow up in a burn centre to screen for delayed symptom onset and vision problems



# **Checklist: Isolated Inhalation Injury Management**

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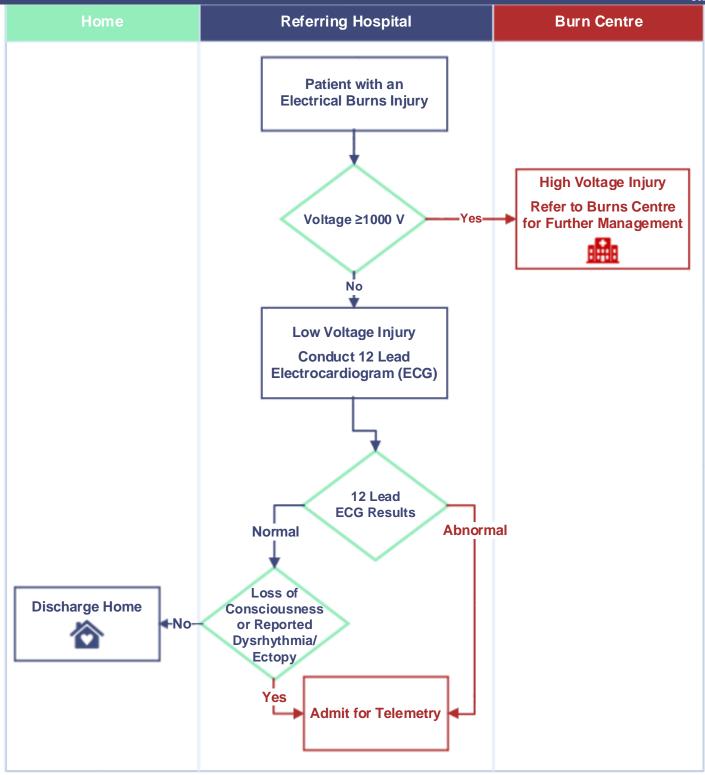
► Inhalation Injury without Burn
Patient can be managed safely outside of the Burn Centre
► Patients without Respiratory Distress
Patient must be monitored for 4-6 hours prior to discharge home
► Patients Requiring Intubation and Mechanical Ventilation
Use 100% Oxygen (O2) until Carboxyhemoglobin (COHb) level reaches the normal range.
Cyanokit can be considered for patients who are hemodynamically unstable or have low Glasgow Coma Scale (GCS). Consult Burn Centre prior to administration of Cyanokit.
Perform diagnostic bronchoscopy.
Administer Heparin 5000u/0.5mL nebulized every 4 hour (q4h) x 7 days or until extubation, whichever comes first.
Administer Acetylcysteine 600mg/3mL nebulized every 4 hour (q4h) x 7 days or until extubation, whichever comes first.
Administer Salbutamol 100mcg/inhalation, 8 puffs via Endotracheal Tube (ETT), every 4 hour (q4H) as needed (PRN).

# **Checklist: Electrical Injury Management**

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## **Checklist: Burn Resuscitation Management**

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## BURN RESUSCITATION SHOULD ONLY BE PERFORMED IN CONSULTATION WITH A BURN CENTRE

Patients requiring burn resuscitation should be transferred to a burn centre. The information below is intended as a guide for management of fluid resuscitation prior to, and during, transfer to a burn centre.

	Goals of Resuscitation
	<ul> <li>□ Urine output of 0.5 cc/kg/hr or 30-50 cc/hr</li> <li>□ Normalizing lactate</li> <li>□ Normalizing hemoglobin and hematocrit (hemoconcentration is common and normalizes with resuscitation)</li> <li>□ Normotensive, HR 110-120</li> </ul>
	Fluid resuscitation should be initiated for all patients with $\geq$ 20% Total Body Surface Area (TBSA) bur injury, or considered for burn >15% for those with associated trauma, delayed presentation, alcohol/drug intoxication with signs of dehydration.
	INITIAL FLUID RATE – DOES NOT REQUIRE TBSA ESTIMATE
	Adults (>16 years) Children (6 - 16 years) Infants (0 - 5 years) 500 cc/hr 250 cc/hr 125 cc/hr
F	Paediatric Consideration: Contact SickKids Paediatric ICU for Transfer and Fluid Management
	Two large bore peripheral IVs should be placed – to be placed through burn if needed.  Consider Intraosseous (IO) if cannot obtain peripheral intravenous (PIV).  Ringer's lactate is recommended resuscitation fluid.  Boluses should be avoided unless patient is hypotensive.  Once patient has been assessed and stabilized, the TBSA should be estimated and the patient's weight in kilograms determined.
	ADJUSTED RATE (ADULTS)  (2x TBSA * weight) / 2  = first 8 hours volume / 8  • assess urine output

A foley catheter should be placed to monitor urine output, and baseline bloodwork including



hemoglobin (Hgb), creatinine and lactate should be sent.