

# CHILDREN'S BURN REFERRAL GUIDELINES

LONDON & SOUTH EAST OF ENGLAND BURN NETWORK (LSEBN) – Version 2 (November 2010)

## REFERRAL CRITERIA FOR SPECIALISED BURN SERVICE

- Consider if >1% Total Body Surface Area (TBSA) Partial Thickness (PT) burn
- All deep dermal and full thickness (FT), circumferential burns and burns involving the face, hands, soles of feet, perineum
- All burns associated with smoke inhalation, electrical shock or trauma
- Severe metabolic disturbance
- Children with burn wound infection
- All children 'unwell' with a burn (see below)
- Unhealed burns after 2 weeks
- Neonatal burns of any size
- All children with burns and child protection concerns
- Progressive non burn skin loss condition (TENS, SSSS)
- Any other case that causes concern

## MEETS CRITERIA FOR REFERRAL TO SPECIALISED BURN SERVICE

CALL LOCAL BURN SERVICE

<b>St Andrews Centre, Broomfield Hospital (Chelmsford)</b>	<b>01245 516037</b>
<b>Chelsea &amp; Westminster Hospital (London)</b>	<b>0203 3152500</b>
<b>Queen Victoria Hospital (East Grinstead)</b>	<b>01342 414469</b>
<b>Stoke Mandeville Hospital (Aylesbury)</b>	<b>01296 315040</b>
<b>National Burn Bed Bureau</b>	<b>01384 215576</b>
<b>Children's Acute Transport Service (CATS)</b>	<b>0800 0850003</b>

## GIVE FLUID / FAST AS BELOW

AGE	BURN SIZE (TBSA)	FLUID
LESS THAN (<) 3/12 OLD	< 10% TBSA FT or PT BURNS	<ul style="list-style-type: none"> <li>• Feed as Normal</li> </ul>
	≥ 10% TBSA BUT < 20% TBSA FT or PT BURNS	<ul style="list-style-type: none"> <li>• Feed as Normal</li> <li>• IV fluid resuscitation according to Parkland Formula only</li> <li>• Do not give IV Maintenance Fluid</li> </ul>
	≥ 20% TBSA FT or PT BURNS	<ul style="list-style-type: none"> <li>• Keep NBM</li> <li>• IV fluid resuscitation according to Parkland Formula</li> <li>• Give IV Maintenance Fluids</li> </ul>
OLDER THAN (>) 3/12 OLD	< 10% TBSA FT or PT BURNS	<ul style="list-style-type: none"> <li>• Keep NBM</li> <li>• Consider giving IV Maintenance Fluids</li> </ul>
	≥ 10% TBSA FT or PT BURNS	<ul style="list-style-type: none"> <li>• Keep NBM</li> <li>• IV fluid resuscitation according to Parkland Formula only</li> <li>• Do not give IV Maintenance Fluid</li> </ul>

## UNWELL: Toxic Shock Syndrome / Burns Sepsis Syndrome – ANY OF:

- Temperature > 38°C
- Rash
- Diarrhoea and vomiting
- General malaise
- Not eating or drinking
- Tachycardia/tachypnoea
- Hypotension

Seek advice from local Burn Service and consider treating with fluid resuscitation, IV antibiotics +/- FFP

## GENERAL INFORMATION

### IV Access

All children with Burns ≥ 10% but <30% Total Body Surface Area (TBSA) should have one well secured IV cannula  
All children with burns ≥ 30% TBSA should have 2 well secured IV cannulae  
**Consider Central Access if Patient Unstable**

### IV Resuscitation Fluids

All children with Burns ≥ 10% TBSA will receive fluid according to the Parkland Formula:-  
4 ml/Kg/% burn over 24 hrs from the time of injury given ½ in the 1<sup>st</sup> 8 hrs & ½ in the 2<sup>nd</sup> 16 hrs given as Hartmann's fluid

### IV Maintenance Fluids

100 ml/Kg over 24 hrs for 1<sup>st</sup> 10 Kg.  
Plus 50 ml/Kg over 24 hrs for 2<sup>nd</sup> 10 Kg  
Plus 20 ml/Kg over 24 hrs for each additional Kg  
Give as 0.45% Sodium Chloride and 5% Glucose solution

### Fluid Balance

All children receiving IV Fluids should have fluid balance documented on the LSEBN Transfer Document (located on the LSEBN Website)

### Catheterisation

All children with burns ≥ 20% TBSA should have an appropriate size catheter.  
Consider catheter if burn 10-19% TBSA  
Consider for all perineal burns

### Suspected Smoke Inhalation or Airway Compromise

Give oxygen and seek anaesthetic review

### NOTE: Referral Criteria for Specialised Burn Centre

Burn ≥ 30% TBSA  
(Consider CATS Transfer)  
Burn ≥ 20% TBSA Full Thickness (FT)  
Burn ≥ 15% TBSA in ≤ 1 year old  
Burn + inhalation injury or need to ventilate  
Burn + Major Trauma  
Burn + requirement for inotropic support  
Burn + requirement for renal support  
Burn + base deficit >6 and deteriorating  
Burn + O<sub>2</sub> Requirement > FIO<sub>2</sub> of 50%

### For cases that do not meet the criteria for referral:

Continue local care + give advice to observe for signs of Toxic Shock Syndrome (Refer to "Unwell")

Discharge when wound healed with advice to moisturise and protect from sun until skin loses pink colour