BURNS

Burns are very often seen in A&E ranging from the trivial burns to major life threatening ones. This is a simple guide to management **If in doubt discuss with senior**

All major burns to be treated in resus

Grades of burns

1. Superficial -

Erythema i.e. scald/sunburn Painful Absence of blisters Not life threatening



superficial burn

2. Partial Thickness These are subdivided into two typesSuperficial Skin red and blist

Skin red and blistered Blanches Painful Heals in 10-14 days

Deep Skin pink or white Feels thickened Decreased sensation Heals in 3 weeks



partial thickness burn. Areas of superficial/deep partial thickness burns

3. Full Thickness Skin white/brown Dry leathery Anaesthetic with no capillary return Requires skin grafting.



full thickness burn

MANAGEMENT

Large Burns: Management Manage in resus Ensure senior involved

Resuscitate A, B, C Send blood carboxyHb, ABGS, U&Es, pulse oximetry CXR Assess burns surface area: use burns charts in resus IV Fluids **Hartmann's Solution** (>10% child and >15% adult) There are a couple of formulae used to calculate fluid requirements These are only guides. Fluid requirement should be guided by urinary Output.

Parkland Formula	4ml x Wt (kg) x % burn area
	$1^{st} \frac{1}{2}$ given in the $1^{st} 8$ hours then next $\frac{1}{2}$ in the next 16
	hours. Use Hartmann's solution

2 x Large IV cannulae

Urinary catheter -	> 50mls/hr . Test for myoglobin
Ormary cameter	> Soms/m . Test for myogloom

Analgesia - i.e. opiates

Tetanus

Escharotomy

Wound Dressing - leave adherent clothes Cover with non-adherent dressing (NA) Beware hypothermia Avoid FLAMAZINE until burn fully assessed.

Refer Burns Unit Glasgow Royal Infirmary 15% ADULT FUNCTIONAL AREA /GRAFTING/ CHEMICAL OR ELECTRICAL BURN

The regional burns unit is at Glasgow Royal Infirmary. Contact the on-call burns/plastics SHO through the GRI switchboard.

Paediatric Burns: see separate paediatric referral pathway

Smaller Burns: Management

- Irrigate with cold water
- At IRH you can prescribe Dermidex for superficial erythema
- Ensure adequate analgesia / tetanus status
- Assess & document size / site / depth drawings are useful
- Deroof large blisters
- Cover with a non-adherent dressing e.g. Silicone NA.
- DO NOT USE FLAMAZINE ON NEW BURNS!!!
- Encourage movement / elevate limb injuries
- **NO** prophylactic antibiotics
- Reassess at 36 48 Hours in A&E or GP surgery if small
- Thereafter redress every 3-5 days either by practice nurse or in A&E if concerned. The majority of burns can be followed up at the GP surgery

ADVISE SENSITIVITY TO SUNLIGHT IN FOLLOWING YEAR.

Grafting

A decision as to whether or not a small burn will require grafting will be made by the consultant/middle grade. Small burns requiring grafting usually fall into one of the following categories.

- Full thickness burns >2cm²
- Deep partial thickness burn showing little signs of improvement at 10-14 days.

RAH ED Management of Large Burns

