



**A BURN KEEPS BURNING
UNTIL THE BURNING STOPS**


EMERGENCY BURNCARE

COOLS THE BURN

March 2010

- Excessive energy
- External influence
- Exceeds tissue resistance
- Cellular damage

COOLS THE BURN

- Causes
- Classification
- Hospital Referral Criteria
- Treatment

Thermal

- Temperature Related
- Dry - Flame / Hot Surface
- Wet - Steam / Boiling Water

Chemical

- Excessive energy
- Reaction of various chemicals
- Acids, alkalis & phenols
- Cellular damage

Electrical

- Electrically generated energy
- Entrance and exit wounds
- Cellular damage between wounds

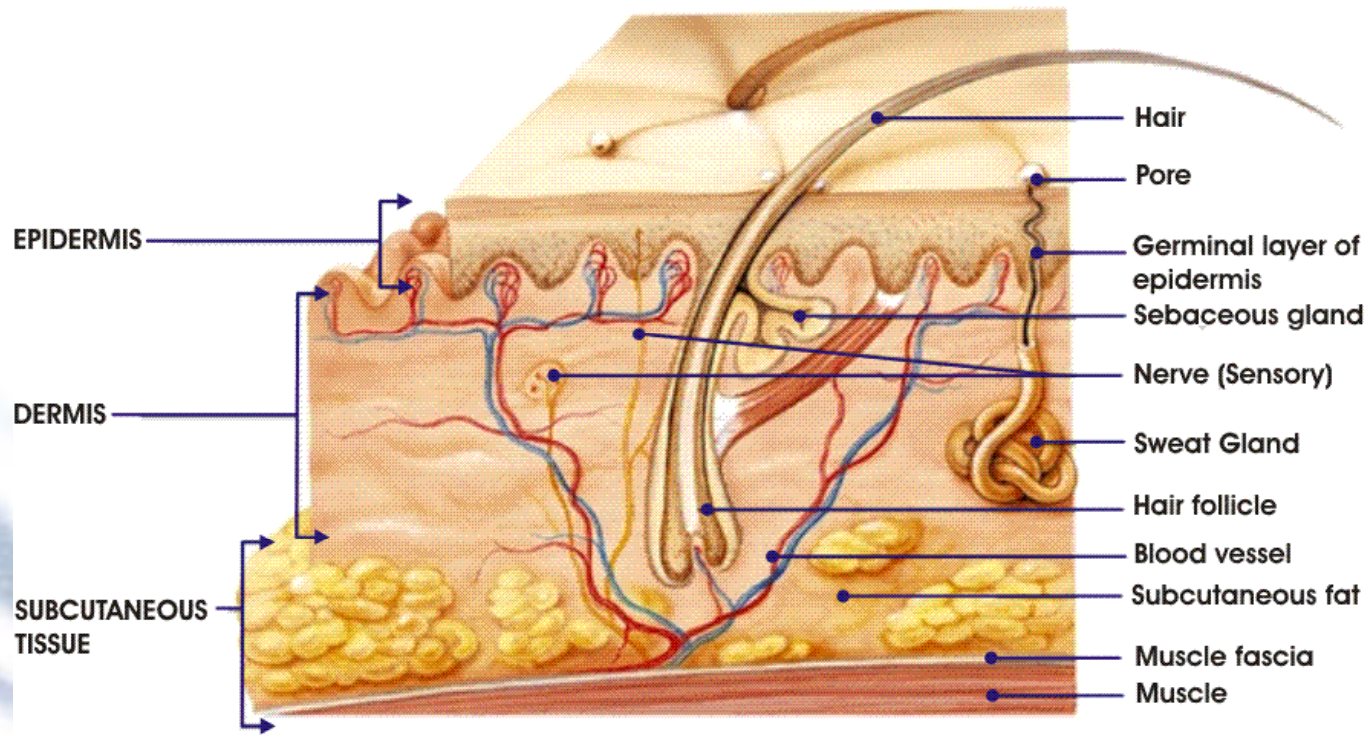
Radiation

- Excessive radiation energy
- Sun Burn
- Potential for deep cellular damage

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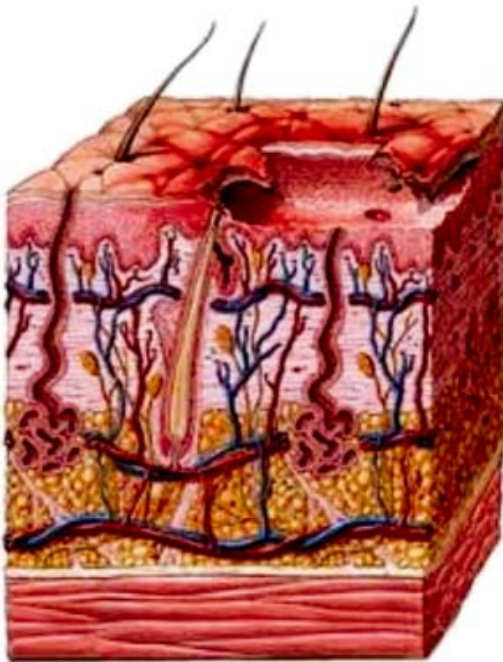
- The depth determines the severity
- Superficial / First degree
- Partial thickness / Second degree
- Full thickness / Third degree

The Skin



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Superficial / 1st °



- Damage to epidermis
- Skin is red & dry
- Most common burn:
- Hot water & Scalds

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Partial Thickness / 2nd °



- Damage to dermis
- Skin is blistered and moist
- Extremely painful

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Full Thickness / 3rd °

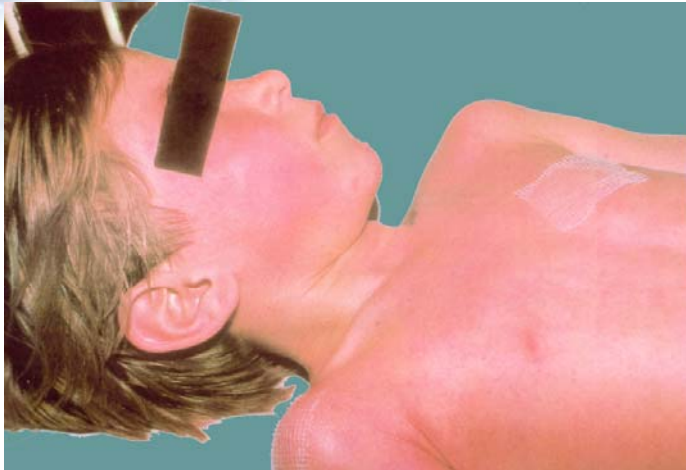


- Damage to layers
- Skin is parchment like
- Injury is anaesthetized

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Superficial / Epidermal



Partial / Superficial Dermal



Full / Sub Dermal



4th Degree / Deep Dermal



“The Three Zones”

Hyperaemia

- The denaturation of protein

Stasis

- The intensity of the heat

Coagulation

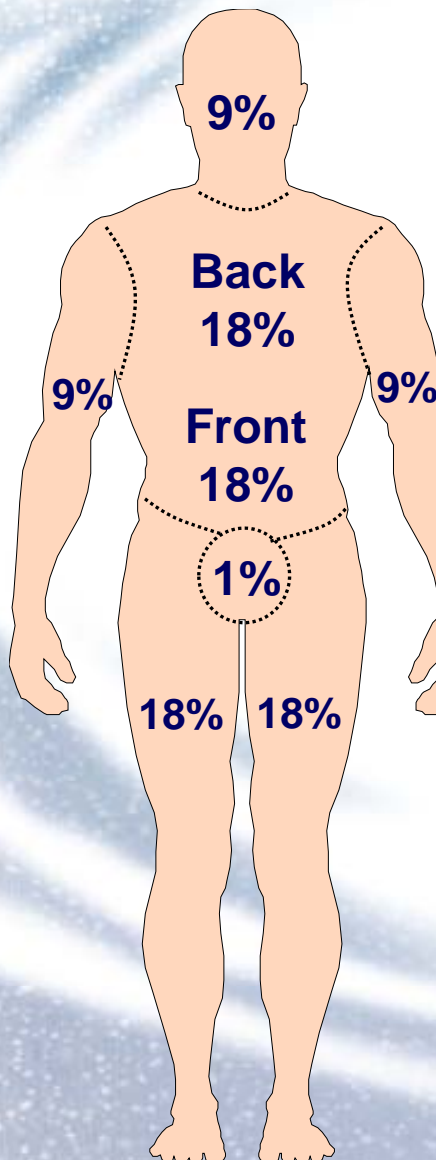
- The duration of exposure

BURN REFERRAL CRITERIA

- Full Thickness > 5% TBSA
- Partial Thickness > 15% TBSA
- Circumferential burns
- Patients < 5 Yr & > 65 Yr
- Suspected inhalation Burns
- Burns on hands or feet
- Burns involving joints or genitalia

Definition :

- A Method to calculate T.B.S.A
- Body area divided into segments
- Each segment is a multiple of 9
- T.B.S.A equals 100 %



Head	=	9 %
Body - front	=	18 %
Body – Back	=	18 %
Arm	=	9 %
Groin	=	1 %
Leg	=	18 %

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TREATMENT

Safety

- Assess environmental safety
- Assess your own safety
- Assess patients safety

Airway

- Open, Maintain & Protect

Breathing

- Assess breathing rate and nature
- Spontaneous breathing
- Oxygen therapy



Normal jaw position, airway open.



Relaxed jaw position causes tongue and throat tissue to collapse and narrows the airway.

NO BREATHING - BEGIN VENTILATION

TREATMENT

Oxygen Therapy:

Rebreather / Poly Mask

- Oxygen flow rate 10 – 15 Lpm

Nebuliser Mask

- 5ml Nacl or Sterile water
- Oxygen flow rate 4-6 Lpm
- Create a fine mist from Mask

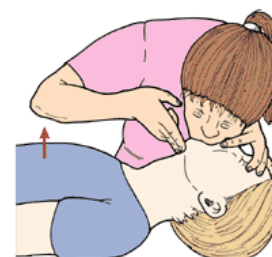
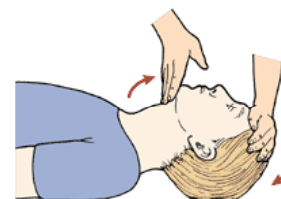


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TREATMENT

Circulation

- Assess the rate and nature of pulse
- Check distal pulses
- NO PULSE BEGIN CPR
- If qualified, begin IV Therapy



Expose

- Remove Clothing
- Expose the wound
- Remove constrictive jewelry
- DO NOT FORCE CLOTHING



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TREATMENT

Don'ts

- Don't remove anything firmly stuck to burnt area unless still hot or smouldering.
- Don't break blisters or disturb burnt area.
- Don't apply fats, grease or oil based items to the burnt area.
- Don't attempt to clean the burnt area in any form.- Do keep calm and urgently phone for an Ambulance
- Don't perform unnecessary invasive procedures through burnt tissue (eg. IV lines).

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TREATMENT

Do's

- Do place burned area in cool water or hold under running water.
- Do apply the Burnshield dressing just larger than the burn.
- Do remove any tight/restricting items such as rings or bracelets.
- Do remove any items of clothing or material not firmly stuck to burnt area especially any material that is still hot or smouldering or mixed/contaminated with chemicals.
- Do keep calm and urgently phone for an Ambulance

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TREATMENT



Application of Burnshield® Dressing



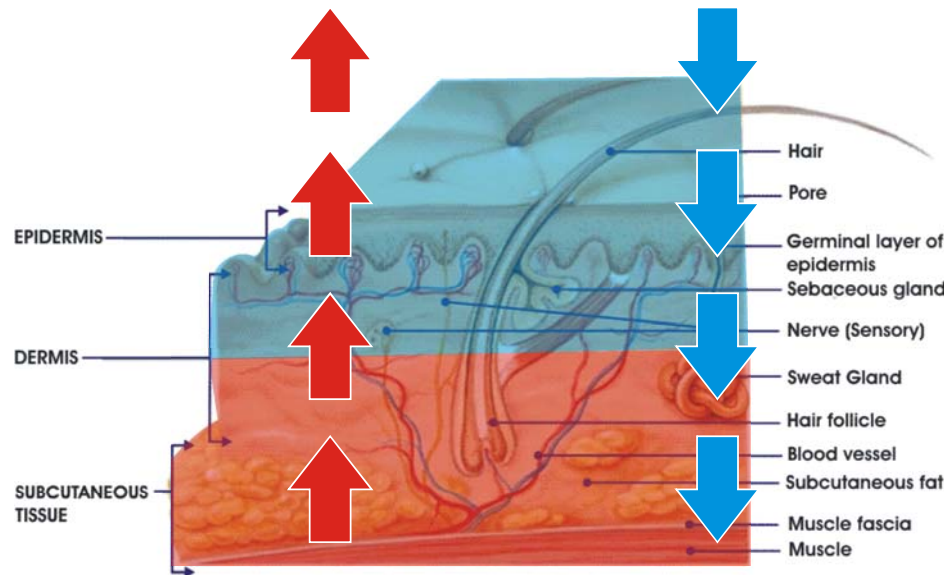
Application: Burns and scalds.
Protection against infection.
Minimises trauma and skin damage.
Pain Relief: Promotes healing,
moistens, cools and soothes.
Non-Adherent. Non-Toxic.
Warning: Do not use if packaging is
damaged.

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BURNSHIELD® ACTION

The Skin



- Heat is absorbed and dissipated within the tissue due to gel structure
- Cooling is effected by heat transfer and evaporation
- High water content in gel promotes rapid cooling resulting in minimizing Skin damage

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Burnshield® Approvals

- CE
- ISO
- FDA
- TGA

Key Features of Burnshield®

- Absorbs and Dissipates Heat
- Provides Instant Relief
- Cooling and reduction of Skin damage
- Controls Infection
- Safe for use on children

Intertek

Certificate Number
802 CE

Initial Certification Date
09 October 2007

Certificate Issue Date
09 October 2007

Certificate Expiry Date
08 October 2012

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AMTAC Certification Services Limited is a Notified Body according to Directive 93/42/EEC for medical devices, with identification number 0473.

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EC Certificate

FULL QUALITY ASSURANCE SYSTEM
Directive 93/42/EEC for Medical Devices, Annex II (3)

We hereby declare that an examination of the under mentioned full quality assurance system has been carried out following the requirements of the UK national legislation to which the undersigned is subjected, transposing Annex II (with the exemption of section 4) of the Directive 93/42/EEC on medical devices. We certify that the full quality assurance system conforms with the relevant provisions of the aforementioned directive, and the result entitles the organization to use the CE 0473 marking on those products listed below.

Organization:

BURNSHIELD (PTY) LIMITED

1 Manchester Road, Medopark, Block 3, Wadeville, South Africa

Burnshield gel in bottles, tubes or sachets
Burnshield gel treated cotton or polyurethane dressings



Authorized Signatory

AMTAC Certification Services Limited, Milton Keynes, UK

2007-01-24



BURNSHIELD EMERGENCY BURNCARE

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