Clinical Practice Guidelines²

4. Consider Functional and Aesthetic Outcome

- Debride blisters that impede functional ability especially ROM (burns to the hands)
- **b.** Debride blisters to speed healing time

5. Use Wound Healing Strategies

- Remove non-viable tissue from the wound bed to promote healing
- Maintain a moist wound healing environment by using synthetic dressings
- Use dressings that don't cause mechanical trauma to the woundbed
- d. Silver sulfadiazine should be used as a last resort (debris accumulation and daily dressing changes)

6. Optimize Patient Comfort

- a. Small blisters can be left intact as a natural method of pain control
- **b.** Stage debridement (aspirate first)
- c. Choose dressings with longer wear times to minimize discomfort

7. Improve Cost-Effectiveness

a. Synthetic dressings can speed healing, reduce dressing frequency, decrease narcotic use, potentially reduce hypertrophic scarring and decrease need for additional treatments / procedures

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Dressing Options - ACH

1. Hydrofiber with Silver

- With absorbent soft silicone dressing (moist healing); 2-3 days wear time for mid to deep partial thickness burns
- With bulky gauze dressing (allowed to dry out and adhere to superficial partial thickness burn); up to 14 days wear time

2. Nanocrystalline Silver

- a. Moisten with sterile H₂0 not saline
- Needs to be kept continually moist (should use hydro gel with absorbent silicone dressing); up to 3 days wear time
- c. Can be painful without hydro gel

Absorbent Soft Silicone Dressing with Silver

a. Direct application; up to 7 days wear time

4. Polymyxin B Sulfate and Gramicidin Ointment

 Can use with absorbent silicone dressing (1-2 days wear time) or with soft silicone dressing and gauze (daily change)

5. Silver Sulfadiazine

 Can use with absorbent soft silicone dressing or soft silicone dressing and gauze *but* requires a daily dressing change

References

- Sibbald RG, Orsted HL, Coutts PM and Keast DH. Best practice recommendations for preparing the wound bed: Update 2006. Wound Care Canada – Reprint. 2006;4(1):R6-R18.
- Sargent R. Management of blisters in the partialthickness burn: An integrative research review. Journal of Burn Care and Research. 2006;1(1):66-81.
- Alsbjorn, et.al.. Guidelines for the management of partial-thickness burns in a general hospital or community setting – Recommendations of a European working party. Burns. 2007;33:155-160.

Clinical Practice Guidelines

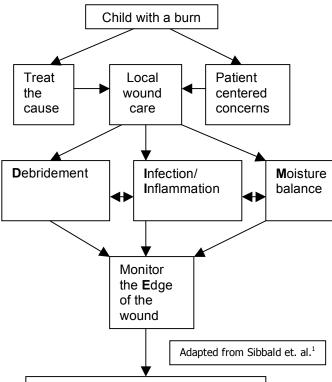
Quick Reference Guide



Partial Thickness Burns and Blister Management

Alberta Children's Hospital - Calgary

Wound Bed Preparation Paradigm



Post Burn Care

- ☐ Moisturize with scent-free cream (i.e. Glaxal Base)
- ☐ Limit UV exposure (SPF >30)
- Prevent itching (may need oral medication)
- ☐ Consult OT for scar management if necessary
- ☐ Return if blisters / wounds occur

The Paradigm Explained

Treat the Cause

- Teach prevention
- Consider co-factors to healing (nutrition, co-morbid diagnoses, smoking)

Address Patient-centred Concerns

- □ Foster adherence to plan of care
- Consider quality of life (pain)
 - Medicate prior to treatment
- Educate the pt / family / caregiver

Local Wound Care

- Prevent burn wound desiccation
- Cleanse the burn wound with lowtoxicity solutions
 - Sterile Water / Saline
 - Potable Tap Water

Debridement

- ☐ Remove non-viable tissue to reduce bacterial burden
 - Gauze, forceps, scissors

Infection / Inflammation

 Assess and treat with topical antimicrobials

Moisture Balance

 Select a dressing that fits the needs of the wound

Monitor the Edge of the Wound

□ Consider referral to Plastic Surgery to assess for possible skin grafting if projected wound closure to be > 2-3 weeks

Clinical Practice Guidelines²

1. Use Infection-Prevention Strategies

- a. Blisters should be debrided to:
 - Remove non-viable tissue from the wound bed
 - ii. Allow proper visualiza-tion of burn depth
 - iii. Remove fluid that may suppress local and systemic immune function

2. Consider Blister Size

- a. Blisters under 6 mm in diameter may be left intact (less likely to rupture spontaneously, impede healing or function)
- b. Large blisters should be debrided to:
 - i. prevent spontaneous rupture
 - ii. prevent mechanical pressure on wound bed

3. Consider Blister Type

- a. Debride thin-walled blisters to prevent spontaneous rupture
- Thick-walled blisters may be left intact
 as they are less likely to rupture (often
 occur on soles of feet or palms of
 hand may not apply to younger
 pediatric population) unless they
 restrict range of motion (ROM)