

Case Study: Second-degree Right Palmar Burn

OASIS[®]
EXTRACELLULAR MATRIX



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Case: Second-degree Right Palmar Burn

Contributed by Todd Sisto, MD; Wendy Sugioka, RN, BSN, CWCN;
and Scott Filgo, BS, BHA, CHT, Inverness, Florida, United States

Patient	28-year-old, healthy male with right palmar burn caused by hot steam escaping from automobile radiator
Case History	<ul style="list-style-type: none">• Patient evaluated in ER on date of injury• Returned next day with a bulla covering the entire palm• Treated via surgical incision, drainage, debridement• Hand splinted in extension• Follow-up wound management and care referred to Wound Care and Hyperbaric Center
Post-op Wound Characteristics	Deep partial-thickness loss with minor area of full-thickness loss Length: 10.1 cm Width: 11.7 cm Depth: 0.3 cm

Note: Individual results will vary.

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Day 0



Before OASIS treatment

Day 0



Initial OASIS application

Treatment: Day 0

- Topical 4% lidocaine applied
- Wound cleansed with normal saline and wiped with gauze
- OASIS[®] Burn Matrix applied and hydrated with normal saline and hydrogel
- Mepitel[®], a non-adherent dressing, applied to stabilize OASIS placement
- Reapplication of hydrogel, followed by Aquacel[®] Hydrofiber[®] Wound Dressing
- Wrapped with Kerlix[™] Gauze
- OCL[®] extension splint placed, secured by Ace bandage
- Patient instructed to elevate hand and return for follow-up

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Aquacel and Hydrofiber are registered trademarks of Bristol Myers Squibb.

Kerlix is a trademark of Covidien.

OCL is a registered trademark of BSN Medical Inc.

Ace is a registered trademark of Becton, Dickinson and Company.

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OASIS Burn Matrix is the product name in the U.S.

OASIS Extracellular Matrix is the product name outside the U.S.

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Day 4



Intact OASIS

Treatment:

Day 4

- Wound greatly improved
- OASIS[®] Burn Matrix intact over palm
- OASIS left in place, hydrated with hydrogel, redressed as before
- Patient received home dressing change and wound hydration instructions
- Stretching and extension exercises ordered to decrease contractures

Day 7



OASIS reapplication

Day 7

- Significant improvements, with 60% of OASIS intact
- OASIS removed, wound cleansed with normal saline
- Some wound areas indicated reapplication of OASIS, and redressing as before

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Treatment:

Day 12

- OASIS[®] Burn Matrix fully intact
- Wound redressed

3 Weeks

- Palmar burn fully closed
- Light pink, soft, supple skin
- Full range of motion restored without contractures
- Patient discharged with rehab instructions for progressive hand and grip usage, skin care, and precautions

Results:

- Palmar burn significantly improved after 4 days of treatment
- Patient reported decreased pain within 24 hours of initial OASIS application: from 10/10 on pain scale to 4/10
- Palm fully closed—light pink, soft, supple skin—following 21 days of treatment
- Full range of motion restored without contractures



Palmar burn fully closed

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