Case ALHYDRAN:
Hot water burn (scald)

1. Case study description

<table>
<thead>
<tr>
<th>Patient age</th>
<th>4.5 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>female</td>
</tr>
<tr>
<td>Cause</td>
<td>hot water burn</td>
</tr>
<tr>
<td>Treatment to wound closure</td>
<td>modern wound care dressings</td>
</tr>
<tr>
<td>Therapy after care</td>
<td>1.5 years after wound closure start with ALHYDRAN, after one month completed with pressure therapy</td>
</tr>
</tbody>
</table>

2. Evolution of the wound

- Start after care with ALHYDRAN
- After 1 month therapy, only with ALHYDRAN
- 2 months after the start, ALHYDRAN with pressure garments
- Almost 4 months after the start, with pressure therapy and ALHYDRAN

3. Conclusions medical team

- The good hydration by ALHYDRAN improves the flexibility of the vulnerable skin and has a positive effect on the itching and the redness. Scars become more flexible
- The use of pressure garments (after one month ALHYDRAN therapy) has a good effect on the aspect (flattening) of the scar
- The use of ALHYDRAN contributes significantly to the reduction of itching and redness. The scar becomes more flexible

4. Patient experience (and parents)

- Improved flexibility of the skin, less itching and redness
- Clear improvement of the mobility and a visual improvement of the look of the scars

Case study: C. Sukan, Lotus MDC, Ankara, Turkey
Case ALHYDRAN:
Flame burn (lower) leg

1. Case study description

| patient age | 15 years |
| gender      | female   |
| cause       | flame burn |
| treatment to wound closure | 1 week Flammazine, thereafter hydrocolloid gel + Jelonet as wound dressing and light therapy to enhance wound healing |
| therapy after care | ALHYDRAN, immediately after wound closure pressure garments and Silicone sleeve + hydration with ALHYDRAN (2 to 3 times a day) after one year follow up with ALHYDRAN alone |

2. Evolution of the wound

- Status flame burn 9 days post burn
- Status 19 days post burn, total wound closure
- Follow-up after 6 months pressure and ALHYDRAN
- Follow-up after 1 year pressure and ALHYDRAN

3. Conclusions medical team

- Wound healing after 19 days
- Evolution to complete maturation within 1 year, with excellent results regarding to color (slight hypo pigmentation) and elasticity of the scar
- Absolutely no hypertrophic scarring and impairment of mobility

4. Patient experience (and parents)

The patient was originally not very excited by the typical Aloe Vera smell of the ALHYDRAN. However this patient was very satisfied by the other properties of the gel cream such as easiness of application and the hydration after application, resulting in much better suppleness of the skin. Also less itching was noticed by this young girl.

Case study: Prof. S. Monstrey and H. Hoeksema. University Hospital Ghent – department of Plastic and Reconstructive Surgery and Burns Center, Belgium
Case ALHYDRAN:
Chronical wound

1. Case study description

| patient age | 79 years |
| gender      | female   |
| cause       | open fracture luxation (04-2006), right ankle with osteosynthesis material post operation, a chronical wound developed |
| treatment to wound closure | curettage and hydrogel on wound wound borders with ALHYDRAN |
| therapy after care | ALHYDRAN |

2. Evolution of the wound

- Post operation removal of OS material. Irritation around the wound. Treatment: Hydrogel in the wound, ALHYDRAN around the wound.
- After curettage of the wound Further treatment with ALHYDRAN

3. Conclusions medical team

- After luxation fracture and the operation with osteosynthesis material, the wound had never been closed
- Due to the presence of the characteristics of a chronical wound with underlying OS material, there is a big chance of deeper infections and the wound will be very difficult to close
- OS material was removed laterally
- The wound borders have improved significantly due to treatment with ALHYDRAN
- In the after care only ALHYDRAN was used

Case study: E. Roovers, Wound Care Coordinator, Ziekenhuisnetwerk Antwerpen (ZNA), Belgium
Case ALHYDRAN:
Second degree burn

1. Case study description

| patient age   | 45 years |
gender         | male     |
cause          | fireworks burn, 31th of December 2006 |
treatment to wound closure | Flammazine |
therapy after care | 5 weeks post accident start with ALHYDRAN, 3 daily doses, brought on thick during the first few weeks |

2. Evolution of the wound

2 days post accident. Therapy Flammazine

5 weeks post accident. Closed skin is treated with ALHYDRAN

6 months post accident. Therapy ALHYDRAN

14 months post accident. Therapy ALHYDRAN

3. Conclusions medical team

- Deep second degree burn with serious ankle damage
- Therapy starts with Flammazine, patient evolves well, only a lot of complaints on itching of closed skin
- After 5 weeks: start with ALHYDRAN on the freshly closed skin, 3 times per day
- ALHYDRAN had good result on the skin, which improved rapidly
- Itching complaints disappeared immediately when ALHYDRAN was used

4. Patient experience

- Flammazine gave a lot of itching problems
- Upon start of the treatment with ALHYDRAN, immediate reduction of itching
- Therapy: 3 daily doses, or each time the skin was itching
- After 6 months, the skin was soft and calm, patient started sporting again
- Skin looks good and calm now
- After 18 months, maintenance of 1 daily dose of ALHYDRAN

Case study: Dr. K. Veel MD, AAB Aruba

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20.07.2007

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18.02.2008
**Case ALHYDRAN:**
Radiotherapy (after care)

1. **Case study description**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>patient age</td>
<td>68 years</td>
</tr>
<tr>
<td>gender</td>
<td>female</td>
</tr>
<tr>
<td>diagnosis</td>
<td>mastectomy with axillary dissection</td>
</tr>
<tr>
<td>therapy after care</td>
<td>started with ALHYDRAN (3 times daily) immediately after (27x) radiotherapy</td>
</tr>
</tbody>
</table>

2. **Evolution of the skin**

![Start ALHYDRAN 3x daily](image1)

![Operation area after 5 days, ALHYDRAN 3x daily](image2)

3. **Conclusions medical team**

- ALHYDRAN ensures that the radiated area is less inflamed, red and painful
- ALHYDRAN ensures that the skin heals optimally. As a result of the good and rapid healing, the follow-up phase can be started earlier
- ALHYDRAN is pleasant to use and simple to apply

4. **Patient experience**

- ALHYDRAN ensures less pain and redness
- There is noticeably rapid improvement to the radiated area
- ALHYDRAN is pleasant to use

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Case study: Ms M. van’t Hekke, Skin Therapist, Zwolle, The Netherlands
Case ALHYDRAN:
Radiotherapy

1. Case study description

| patient age | 42 years |
| gender | female |
| diagnosis | breast carcinoma |
| therapy after care | ALHYDRAN during and after the radiation period |

2. Evolution of the skin

3. Conclusions medical team

- ALHYDRAN is a good alternative for cetomacrogol
- Patients are almost always positive about its use
- ALHYDRAN is better than an Aloe Vera gel only, due to hydrating properties of ALHYDRAN. If only a gel is used, the radiated skin will become too dry and flaky
- ALHYDRAN is used with grade I and II radiation dermatitis

4. Patient experience

- ALHYDRAN is better than an indifferent cream (cetomacrogol), because ALHYDRAN eliminates the pain of radiation skin burn
- Reduces itching
- ALHYDRAN was easy to apply and has a neutral odour

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Case study: N.S. Russell, radiotherapist, Netherlands Cancer Institute (NKI), Antoni van Leeuwenhoek Hospital, Amsterdam, The Netherlands
Case ALHYDRAN:
Erosive skin

1. Case study description

| patient age | 70 years |
| gender | male |
| diagnosis | actinic keratosis (skin cancer) |
| treatment | 3 weeks twice daily application of 5-Fluorouracil |
| therapy after care | after 3 weeks start ALHYDRAN |

2. Evolution of the skin

3 weeks after application of 5-Fluorouracil (start of ALHYDRAN) 3 weeks after start of treatment with ALHYDRAN

3. Conclusions medical team

- ALHYDRAN is easy to apply to mildly erosive skin
- ALHYDRAN is a pleasant alternative to fusidic acid cream
- ALHYDRAN does not entail a risk of bacterial resistance, unlike fusidic acid cream
- ALHYDRAN keeps the skin slightly oily and hydrated
- ALHYDRAN also promotes wound healing

4. Patient experience

- ALHYDRAN is easy to apply
- Nice to use, does not sting
- Noticeable result in just a couple of days
- ALHYDRAN also works well on grazes

Case study: Dr. Njoo, dermatologist, Hospital Group Twente, Hengelo (Ov), The Netherlands
Case ALHYDRAN: Multiple actinic keratosis

1. Case study description

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>patient age</td>
<td>81 years</td>
</tr>
<tr>
<td>gender</td>
<td>male</td>
</tr>
<tr>
<td>diagnosis</td>
<td>actinic keratosis of the scalp</td>
</tr>
<tr>
<td>treatment</td>
<td>a single session of 5-ala PDT</td>
</tr>
<tr>
<td>therapy after care</td>
<td>ALHYDRAN twice daily</td>
</tr>
</tbody>
</table>

2. Evolution of the skin

![Start of ALHYDRAN as a single treatment, applied twice a day](image1)

![Day 7 after starting ALHYDRAN](image2)

3. Conclusions medical team

- Day 1 after PDT, patient was seen during an emergency consultation with serious reactions:
  - inflamed erythema, erosions, crusting

- Good and quick clinical improvement (within a week)

4. Patient experience

- Complaints of pain disappeared within 48 hours
- ALHYDRAN had a cooling effect

Case study: Dr. R. Ceulen, Dermatologist, Albert Schweizer Hospital, Dordrecht, The Netherlands
Case ALHYDRAN: Scald (hot water from exploding radiator)

1. Case study description

| patient age | 52 years |
| gender | male |
| cause | scald (hand, face, chest) |
| treatment | ALHYDRAN 2 b.i.d. healthy patient, no skin problems hydrochlorothiazide treating hypertension |

2. Evolution of the skin

Day 1 after scald (3-10-2011) Blisters punctured/ commencing with ALHYDRAN as single therapy/ 2 b.i.d.

Day 7 following treatment ALHYDRAN (10-10-2011)

Day 14 following treatment ALHYDRAN (17-11-2011)

3. Conclusions medical team

- Positively surprised at fast results & healing process
- Patient indicated absence of pain and itching
- Uneventful healing process within 4 weeks

4. Patient experience

- No pain or itching
- Rapid healing, can resume activities
- Easy application ALHYDRAN, no fragrance

Case study: Drs. R. Ceulen, Dermatologist, Albert Schweitzer Hospital, Dordrecht, The Netherlands
Case ALHYDRAN:
Burn caused by chemical explosion

1. Case study description

<table>
<thead>
<tr>
<th>Patient age</th>
<th>58 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>Male</td>
</tr>
<tr>
<td>Cause</td>
<td>Burn scar after explosion</td>
</tr>
<tr>
<td>Treatment to wound closure</td>
<td>Flamazine and daily dressing change</td>
</tr>
<tr>
<td>Therapy after care</td>
<td>ALHYDRAN, pressure gloves, scar therapy by skin therapist, endermotherapy</td>
</tr>
</tbody>
</table>

2. Evolution of the skin

- Start ALHYDRAN
- After 3 months of ALHYDRAN therapy
- After 6 months of ALHYDRAN therapy

3. Conclusions medical team

- Fast healing
- Improved restoration skin hydration
- Visibly improved supple skin
- Reduction squamae, ie. skin particles

4. Patient experience

- Skin has stopped itching
- Improved flexibility of the skin
- Reduced contractions
- Easy to apply

Case study: Ms J.M. de Graaf and Ms C.T.M. Rijkenberg, Practice Skin Therapists, Oosterbeek, The Netherlands
Case Suprathel and ALHYDRAN: Donor site

1. Case study description

<table>
<thead>
<tr>
<th>Patient age</th>
<th>13 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>female</td>
</tr>
<tr>
<td>Cause</td>
<td>donor site</td>
</tr>
<tr>
<td>Treatment to wound closure</td>
<td>Suprathel 14 days</td>
</tr>
<tr>
<td>Therapy after care</td>
<td>ALHYDRAN, immediately after wound closure pressure garments and hydration with ALHYDRAN (2 to 3 times a day)</td>
</tr>
</tbody>
</table>

2. Evolution of the wound

- Donor site: immediately after skin removal
- 14 days after wound closure: start ALHYDRAN and compression
- 3 months after start of treatment with ALHYDRAN and compression
- 1 year after start of treatment with ALHYDRAN and compression

3. Conclusions medical team

- Full wound closure within 14 days
- Evolution to complete maturation within 1 year, with excellent results regarding to color (slight hypo pigmentation) and elasticity of the donor site
- Significantly less redness and itching during maturation

4. Patient experience (and parents)

- No significant pain during wound healing
- No significant itching during the treatment, before nor after wound closure
- Good flexibility and feel of the skin on the donor site

Case study: Prof. S. Monstrey and H. Hoeksema. University Hospital of Ghent – department of Plastic and Reconstructive Surgery and Burns Centre, Belgium
Case ALHYDRAN:
Actinic keratosis

1. Case study description

<table>
<thead>
<tr>
<th>patient age</th>
<th>72 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>gender</td>
<td>male</td>
</tr>
<tr>
<td>diagnosis</td>
<td>actinic keratosis after cryotherapy</td>
</tr>
<tr>
<td>treatment</td>
<td>patient had 2 actinic keratosis on the scalp, both lesions were treated with 2 cycles of liquid nitrogen spray treatment</td>
</tr>
<tr>
<td>therapy after care</td>
<td>ALHYDRAN cream twice daily for 14 days</td>
</tr>
</tbody>
</table>

2. Evolution of the wound

Start ALHYDRAN treatment, 2x daily

14 days after start of ALHYDRAN treatment, 2x daily

3. Conclusions medical team

- The treated skin areas closed after 14 days, leaving no scar formation or hypopigmentation
- ALHYDRAN is easy to use and has no local side effects
- ALHYDRAN can be used as an alternative for fusidinic acid cream
- In contrast to fusidinic acid, ALHYDRAN does not cause bacterial resistance
- ALHYDRAN cream proved to heal wounds rapidly

4. Patient experience

- Easy in use
- No skin irritation or other side effects
- Fast clinical results, within a few days

Case study: Dr. Njoo, dermatologist, Hospital Group Twente, Hengelo (Ov.), The Netherlands
Case ALHYDRAN: Atopic eczema

1. Case study description

| patient age | 22 years |
| gender | female |
| diagnosis | atopic eczema |
| | patient had suffered from atopic eczema since childhood, the patient was reluctant to use local corticosteroids as she feared atrophy of the skin. The eczema is quite persistent and recurring, especially inside the elbows |
| treatment | ALHYDRAN cream twice daily, monotherapy inside the elbows |

2. Evolution of the skin

- Start ALHYDRAN treatment, 2x daily
- During ALHYDRAN treatment
- 14 days after start of ALHYDRAN treatment

3. Conclusions medical team

- The eczema cleared within 2 weeks
- Monotherapy with ALHYDRAN cream proven to be effective in mild eczema cases
- ALHYDRAN delivered results comparable with a local corticosteroid
- ALHYDRAN had no side effects, in particular no skin atrophy

4. Patient experience

- Easy to apply and quickly absorbed
- No skin irritation or other side effects
- More confidence in the product, as there are no side effects such as atrophy

Case study: Dr. Njoo, dermatologist, Hospital Group Twente, Hengelo (Ov.), The Netherlands
CASE ALHYDRAN and BAPSCARCARE S: Surgical Intervention

1. Case study description

| patient age | 63 years |
| gender      | female   |
| cause       | resection of abscess on palmar side of the wrist |
| therapy after care | start 12 days after surgical intervention during the day; ALHYDRAN 3 times a day, a very thin layer during the night; BAPSCARCARE S |

2. Evolution of the wound

3. Conclusions medical team

- Removal of sutures after 12 days and immediately start of treatment
- The combination of a thin silicone sheet during the night and ALHYDRAN during the day resulted in complete scar maturation within 9 months

Case study: Hoeksema, H. Department of Plastic and Reconstructive Surgery, University Hospital of Ghent, Belgium