STUDY SHOWS:

EPICITE HYDRO ADDRESS CHALLENGES, SIMPLIFY DRESSINGS AND REDUCE TIME AND COST ON FACIAL BURNS (n= 33)

The study shows an impact of epicite (EH) on:

Optimizing wound management, provide pain relief

and reduce risk of infection • Ability to moisturize the skin while reducing level of exudate

• Relieves pain immediately after application due to cooling

- Fewer procedures and lower procedure related pain Protects against contamination - seems to prevent infection

Simplified procedure on a hard-to-dress area, reduce cost and time consumption and improve healing time

- Simplified procedure
- No need for cleaning the wound during wound care
- Reduces time consumption
- No change of EH in any cases • Faster healing [av. day 8,8]
- - Improved opportunities to achieve nutritional needs
 - Early discharging
 - Less invasive scaring
 - Overall high satisfaction among the patients with EH

Improving comfort for the patient and provide better outcome

- Less exudation
- Improved mobilization
- Time and cost saving for both patient and the hospital

- Very restrictive for the patient
- Isolation of the patient and mental impact
- Can we accommodate patient comfort and provide better outcome?

INTERVENTIONS - CHANGE OF PRACTICE

Trial 2019/2020

In addition: covering patient experience

Reduce time of hospitalization

Save time for the nurses

The objective: Can we with the use of epicte

- spring 2020 • Improve healing time of facial burns
 - Implementation of epicite for facial burns,

New Treatment Guideline

- Denmark
- Continued collecting data for further 6 months • 40 patients included, complete data in 33 cases
 - Cover EH with a secondary dressing: 1-2 layers of Jelonet, 1-2 layers of sterile gauze and fixation

and perform wound inoculation

Clinical photos before application

Apply EH facemask or/and pads with an

Step by step:

size if needed

NEW TREATMENT GUIDELINE

• Clean the wound, remove bullae and loose skin

overlap of 2-3 cm on intact skin. Can be cut to

- Absorbent secondary dressing can be changed
- as needed or completely removed, when the wound does not exudate
- The following days EH will detach from the edges as the wound epithelializes. The edges of EH are cut continuously until EH is spontaneous
- removed due to healing Areas not covered with EH must be cleaned and applicated with vaseline at least two times a day,
- e.g., lips

Very comfortable

Quick painrelief

No painrelief

No pain

Some pain

Sedated or EH removed

Sedated/Intubated

Less comfortable

1. Time consuming and repetitive application, risk of 2. Hard-to-dress area, time consuming observation and

complications and painful for the patients

- Sterile vaseline and wound cleaning x2 per day
- Wound cleaning associated with pain
- Time consuming, depending on compliance Weak procedure in matter of avoiding and preventing

APPLICATION OF EPICITE

within 48h of accident (n=33)

compared to former treatments

10

Application and handling: 100% very easy

Choice of epicite

Only facemask

OBSERVATION AND ASSESSMENT

Edema control day 2

Signs of healing control day 5

24

CASE 1: 8YO BOY - 40 % OF THE FACE

oedema, itching and signs of heeling (n=33)

10 x 10 cm (1 or more)

Facemask + 10 x 10 cm pads

Less than expected

Itching control day 5

Decreasing

Increasing

All nurses stated treatment with EH as 100% relevant as new procedure and 100% time saving

- infections
- Can we optimize wound management, relief pain and reduce risk of complications/infection?

CHALLENGES WITH FACIAL BURNS - FORMER TREATMENT

- A hard-to-dress area due to contours of the anatomy
- Challenges according to movement

Time consumption

< 10 min

10-20 min

< 20 min

No itching

No answer

- Procedure related pain
- Can we simplify procedure, reduce cost and time consumption and improve healing time?

3. Patients discomfort of former treatment

- Massive exudation
- Loss of appetite, loss of important nutrition factors
- Slow healing

PROCEDURE FOR THE STUDY

Parameters in the questionnaire:

- TBSA of the face and location Application of EH and time consumption
- Variants of EH used and how many
- Use of secondary dressing
- Patient experience of application
- Relevant for future treatment

Oedema, pain, itching, signs of infection and

At inspections:

- Does EH stay on the burn as expected
- Change/discontinue secondary dressing Observation and assessment of:
- signs of healing • Ease of use and time consumption
- Patient experience
- Removal of EH

DATA

(n=33)

• Burns were superficial and deep 2nd degree burns as well as 3rd degree burns

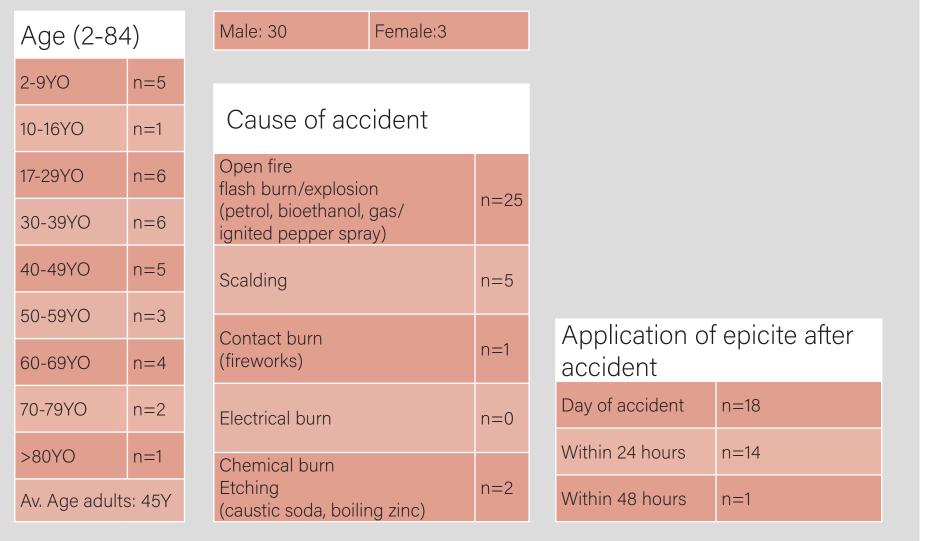
• TBSA involvement of the facial burns, 33 cases, varied between 0,5-3,5%

PATIENT EXPERIENCE

Application of epicite within 48h

22

application and treatment with epicite (n=33)



Easy to use hydro active dressing for hard-to-dress areas

New treatment guideline 33 cases with facial burn

> RN. Janni Mulvad Vendelbo, RN Signe Kjær Voss RN. Nina Ravnborg, RN Camilla Nybo MD. Ph.d., Chief of Burns, Plastic Surgeon Rikke Holmgaard RN., Assistant Ward Nurse Kitt Lynge RN., Clinical Research Nurse Amalie Mannov

> > This project is non funded.

OBSERVATION AND ASSESSMENT

signs of infection and removal of epicite (n=33)

• EH removed on av. day 8,8 (27 cases)

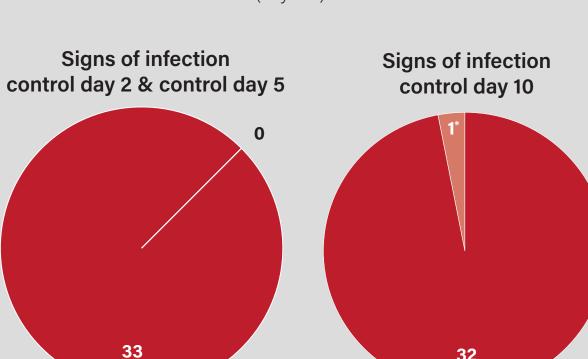
No signs

CONTACT BURN FIREWORKS

Signs of infection

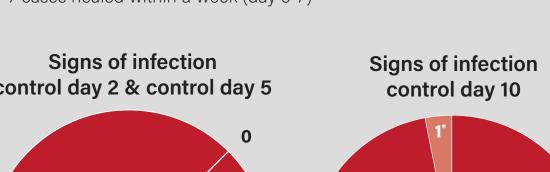
uncomplicated healing despite this.

• No data on removal in 3 cases (removed by pt. after discharge) • 7 cases healed within a week (day 5-7)



approx. day 10 or spontaneous removal 10 8 6 -

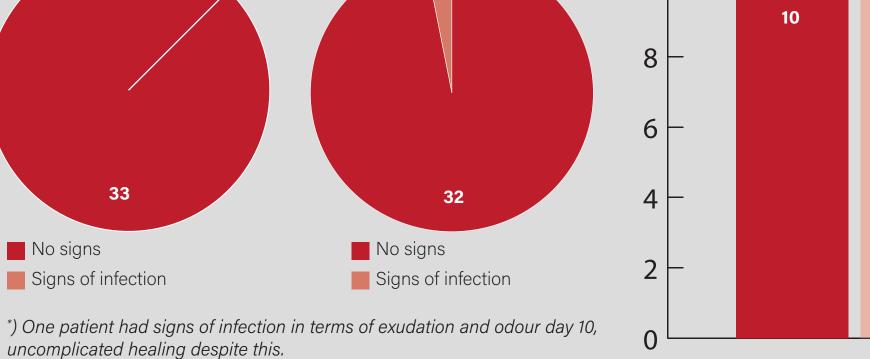
Removal of epicite - Nurses experience Easy and simple Removed over several days Timeconsuming Removed by PT after discharge



33 32

No signs

Signs of infection



Day of accident (day 0)

EH detaching/signs of healing

No signs

Fully healed

No answer



Hospitalization time depends on the total TBSA

- 12 patients had a total TBSA <5% of those: 7 patients had a burn limited to the face
- The average hospitalization time of those 12 patients: 6.75 days [1-24]

The average hospitalization time of those 12 patients, 0,75 days [1-24]				
Days of hospitalization	No. of patients	Av. total %TBSA	Av. %facial burn (reg.)	Av. %facial burn (<100)
1-9	12	2,8	2,0	54,5
10-19	12	10,8	2,6	58,3
20-29	4	9,8	3,0	82,5
30-40	4	22,9	2,3	64,3
130	1	69	3,5	100

This project focuses on facial burns, why we calculate the whole face as 100%. A 100% burn is a full-face burn.

Level of pain 25 ┌ 20

15 | Control day 2 Control day 5 Control day 10 OPEN FIRE FLASHBURN



FIXATION CASE



DEPARTMENT OF PLASTIC SURGERY AND BURNS TREATMENT COPENHAGEN UNIVERSITY HOSPITAL, RIGSHOSPITALET

- The Burns Unit services Denmark, the Faroe Islands and Greenland
- Rigshospitalet is responsible for National Guidelines for treatment of burns in Denmark The department assesses approx. 10,000 patients annually and admits approx. 250 patients per year
- Highest number of patient references at the entire Rigshospitalet
 - The Capital Region Rigshospitalet

epicite^{hydro}

PRODUCT FACTS

- Biotechnology derived cellulose • Contains a minimum of 95% isotonic saline solution

• Immediate pain relief due to cooling effect

 Reduces edema Absorbs wound exudate Provides a protective barrier

ADVANTAGES, EG.

- Very easy to apply and adapt to the shape of the face
- Ensures a continuous moisture to the wound
- Easy observation and assessment Fewer procedures



