PRESERVING the TISSUES of PROBLEMATIC WOUNDS USING a GLYCERINE - BASED WOUND DRESSING, Joseph Baksa, Sandor and Andrea

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Introduction

ELECTRIC BURNS are usually problematic, wounds.

The authors used Elasto-Gel /EG/ *glycerine-based semi-occlusive wound dressing for conserving a boys wounded tissues on both feet.

CASE REPORT:

A 15 years old boy burned by high voltage injury. The punctuate entry was on the head /face and skull/ and the exit sites were on his feet.

Including the head of the 1st metatarsal bone on the right foot, and the head of the 5th metatarsal bone on the left foot. EG was used almost continuously before and after operations: necrectomies and repeated gratings. EG was used for preventing and treating his pathologic scars.

The authors could preserve the two main parts of the boys feet /head of 1st and 5th metatarsal bones/, so the child can stand, walk and work without any problems.

The hospitalization time in the first period was: 12 weeks.

You can see on photos the course of the boys healing in the different stages of wound healing and in the reconstructive period.

Elasto-Gel was used to perform the following:

- 1. definitive operation was not possible
 - a. no amputation wanted
 - b. preserve tissues /of three balancing points/
 - c. wound was moderately infected
- 2.preparing and cleaning the wound surfaces for grafting /2x/
- 3.preventing of pathologic scars /after every operations/
- 4.treating ulcers of scars
 - a. after gratings
 - b. after reconstructive local flap
- 5.of cooling-effect of EG, after local flap and grafting on face / face lifting!

MOTTO: Choose the suitable method and local agents for the patients.

EG has some extra special properties, these extra specialties of EG based on the effect of GLYCERINE (Glycerin (pH),1,2,3-propane-triol)

- 1.has bacteriostatic (anti-inflammatory) effect
 - a. Acid environment created beneath EG (pH 5-6) results in a reduction in the number of infection
 - b. Reduces the number of Pseudomonas aerug. in burn wounds.
- 2. influences the skin water content
 - a. has an intrinsic water like behavior
 - b. increase of water content is possible without maceration of the skin
- 3. plasticize the skin
- 4. has a bio-transforming effect

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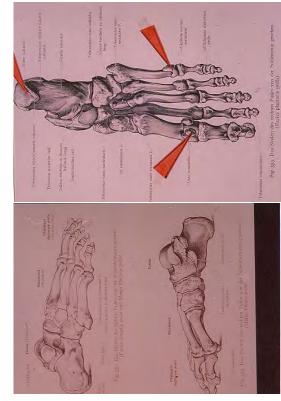
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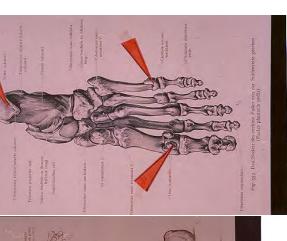


2./ Exit sites /feet/



9.77th pb day: Excision and suture of the wound of head

3./ Bones of the foot /anat.picture/



4 3 main "balancing-points"



6./ Conserv. excision of neor Saving bones!



8./ EG use for cleaning of burn surface /face/





13./ 3rd months, after healing





17./ Reconstruction by local flap because of scar/Right foot/

11./ After a month: postop. /left foot/



12./ Using EG, 2 th pb.months

10./ After a month: postop. /right foot/

18./ Left foot reconstruction

20./ Using EG for cooling effect