



FEEDBACK FROM PAST EXPERIENCE ON USE OF WATERPROOF DRESSING IN DAY-TO-DAY HEALING PROCESS OR IN MORE COMPLEX SITUATIONS

Thanks to:



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Aim: Wound may be aggravated by a lack of protection. The aim of this work is to present the *indications and benefits of applying a waterproof wound dressing**.

Patients and method: An observational, retrospective, multicenter study. We report the use of a waterproof dressing in *stressful conditions*: protecting 16 acute wounds on soldiers in a *Guyana forest* (duration: two months), 100 *Buruli Ulcers* in Cameroon (duration: two years), five skin wounds in the forehead zone during a chemical attack simulation, and many times during common healing processes such as *sports or regular physical activity*. We have reported the easiness of use, the benefits and limitations of this dressing.

Results: Despite its enhanced serviceability, the dressing provided protection of the healing process from *twelve hours to three days in extreme uses*. It reduced physical incapacity for soldiers. It passed successfully through the decontamination high pressure shower. It *cut the costs enabling to continue physical activity*, to take a shower or bath between re-bandaging. For Buruli ulcer, wounds strongly exposed to excretions and maceration, it allowed families to go home for two days. This waterproof dressing *allowed the protection and observation of the scar* after surgery for up to ten days, until the removal of the stitches.

Discussion: A waterproof and permeable medical device that enables people to carry out activities with a certain degree of *comfort guaranteed to the patient as well as to the nursing staff* resulting in *better therapeutic education*. **A prospective comparative study must be led.**



The idea = to create a non-adhesive tight cell

* Secuderm

A medicinal device of class I in a separate packing, 1 tube of an adhesive gel, 1 instructions, 1 transparent foil

10 x 20 cm, 20 x 30 cm

- Strong long-term adhesiveness (< 5 days)
- Respects sensitive skin
- Adjustable: size, surface and shape of protection

A comparative study is difficult versus cellophane, hydro cellular and other adhesive dressings which are the best if non-porous.

SEALED AND BREATHING CELL

- Once it is placed, it "does not move" and requires no other maintenance.
- Transparent = easy checks (local inflammation or ulceration), the need of the primary bottom dressing exchange.
- Apply the „final“ absorption dressing for saturation: comfort, less care, costs reduction.
- Cicatrization check in the problem zone: back impetigo or Fournier gangrene are typical examples
- Antibacterial protection and maintenance of medical devices.

LIMITATIONS AND PROSPECTIVE:

- Limitation of foil layers and the lubricant joint
→ 10x20 cm + easy application.
→ foil dimensions are limited to 20 x 30 cm
- Condensation is sometimes present
→ breathable film, fast absorption.
- Medical intervention device packing → non-sterile medical device.
- Quantity of applied gel = homogenous and continuous → cannula with 2 or 3 outlets?
- Thus it is indeed economic → but unpaid by insurance companies.
→ Price for public ~ 9€, professionals ~5€ VAT excl

NRCH-V Risks
nuclear radiologic chemical explosion

Exercise NRCH 11 (BSPP)

- ✓ 5 dressings applied in gloves
- ✓ Resistant to decontamination shower
- ✓ Timely treatment of affected skin to reduce intoxication, limit recontamination, reduce pain.
- ✓ Enables DTPA usage (risk)
- ✓ latrogenous wound (drains, catheters...) protection and medical device fixation.

Buruli Ulcer
Cameroon

- ✓ Transmitted by Mycobacterium Ulcerans.
- ✓ Subcutaneous water reservoir affecting namely children and forfion if the terrain is unfavorable.
- ✓ Approximately fifty applied dressings
- ✓ Tested in the cleaned stage, directly in a contact with hydro gel-greasy tulle + compression
- ✓ Comfortable feeling on the scar: family, patient and care taker
- ✓ Care costs reduction.

Fight against illegal gold diggers

- ✓ Tested 16 times in 2 months
- ✓ Wounds in the cleaned stage.
- ✓ Missions from hours to 3 days.
- ✓ Dressing covering the primary Vaseline-Jelonet® greasy tulle affixed by a self-sticking Hypafix® type plaster
- ✓ Resistant in extreme temperature conditions, hygrometric and hygienic.
- ✓ Kept for 30 „surgical“ days

Standard use for impetigo at sacral bone, cold surgery ...

Each protection (chronic otitis, wound), nail bed inflammation, paranas, wounds

